

The final 2013 production total for pulse crops in Australia reached 2,227,000 tonnes. This total is 3% higher than that for 2012. For individual crops, the final total varied markedly from those in 2012.

- Desi chickpea was 27% less due to low winter rainfall and August frosts in Queensland and northern New South Wales.
- Australia Sweet Lupin production jumped by 39% due to a very good growing season in Western Australia, despite a lower sown area.
- Lentil production rose by 38% with good yields on a slightly increased area in South Australia and Victoria.

The production totals by state show the variability in growing season conditions across the country.

- Western Australia, South Australia and Victoria all delivered large increases in production: by 41%, 30% and 14% respectively.
- New South Wales and Queensland both experienced below average seasons, with frosts damaging crops further. New South Wales production fell by 32% and Queensland by 17% on the 2012 totals.

Western Australia

Rainfall during the winter months was average to slightly above average across most of WA. However the distribution of rainfall, with August and September being well above average, resulted in exceptional yields in all crops in most regions.

Lupin yields were very high yielding in all port zones except the north-east of Geraldton and East Kwinana where the season was very dry. Field pea yields were above average in all zones, but were affected by Blackspot in the Esperance region. Desi chickpea yields in the Geraldton region were above average.

Harvest weather was dry and warm with no weather damage reported for all grains across the state.

South Australia and Victoria experienced a dry summer with the winter break occurring in late May. Warm winter temperatures and above average rainfall combined to achieve better than expected early growth in most districts. Favourable spring conditions resulted in higher than average yields.

Some disease impact was seen in lentil and faba bean but on a small percentage of the crop. Generally harvest conditions were good resulting in excellent grain quality.

Southern New South Wales had an average growing season with good early yield potential. However, severe frosts occurred in October. Areas that suffered severe damage included Holbrook, Temora, Junee, Harden, Wagga Wagga, Grenfell and Parks. Frost reportedly caused 70 - 90% damage to field peas and 20 - 40% damage in faba beans and lupins.

Queensland and northern New South Wales

The 2013 spring delivered high temperatures and no useful rainfall to speak of.

Grain yields were a patch work within any given region, with frosts in August and high temperatures in October combining with low rainfall to limit yields last season.

Crops that were planted at the preferred time and into good soil moisture levels were able to effectively set pods during the shortened podding period and provided yields ranging from 1.0 - 1.6 t/ha, with the most common being around 1.2 t/ha.

Grain quality was generally average: clean and with good colour.

Final Estimated Pulse Production in Australia for 2013 (tonnes)

| State | Chickpea | | Beans | | Field Pea | Lentil | Lupin | | Total 2013 (t) | % of 2012 (t) |
|-----------------------|----------------|---------------|----------------|---------------|----------------|----------------|----------------|---------------|------------------|---------------|
| | Desi | Kabuli | Faba | Broad | Dun | Red & Green | Sweet Lupin | Albus Lupin | | |
| New South Wales | 224,500 | 26,100 | 70,600 | - | 52,600 | 700 | 24,500 | 32,400 | 431,400 | 68% |
| Victoria | 9,500 | 40,000 | 126,600 | 14,700 | 68,000 | 111,500 | 29,100 | 200 | 399,600 | 114% |
| Queensland | 294,300 | 2,000 | - | - | - | - | - | - | 296,300 | 83% |
| South Australia | 2,700 | 24,300 | 121,300 | 34,800 | 184,400 | 140,600 | 77,800 | - | 585,900 | 130% |
| Western Australia | 4,900 | 800 | 9,200 | - | 37,100 | - | 460,000 | 1,400 | 513,400 | 141% |
| Total 2013 (t) | 535,900 | 93,200 | 327,700 | 49,500 | 342,100 | 252,800 | 591,400 | 34,000 | 2,226,600 | 103% |
| % of 2012 (t) | 73% | 119% | 99% | 105% | 107% | 138% | 139% | 100% | 103% | |

Major projects funded by

GRDC Grains Research & Development Corporation
Your GRDC working with you

Pulse Australia gratefully acknowledges the valuable financial support from our industry members.

These are listed on our website under the index heading "Members".



Chickpea

Desi Chickpea

| Region State | Western | Southern | | | | Northern | | | Australia Total |
|-----------------------------|---------|----------|--------|--------|----------|----------|---------|----------|--------------------|
| | WA | SA | VIC | S/NSW | Subtotal | QLD | N/NSW | Subtotal | |
| 2013 Production (t) | 4,900 | 2,700 | 9,500 | 12,600 | 24,800 | 294,300 | 211,900 | 506,200 | 535,900 |
| 2013 Sown area (ha) | 4,000 | 1,750 | 10,000 | 12,000 | 23,750 | 214,000 | 186,000 | 400,000 | 427,750 |
| Variation from Dec 2013 (t) | 0 | 110 | 10 | 0 | 120 | 0 | 0 | 0 | 120 |

Kabuli Chickpea

| Region State | Western | Southern | | | | Northern | | | Australia Total |
|-----------------------------|---------|----------|--------|-------|----------|----------|--------|----------|--------------------|
| | WA | SA | VIC | S/NSW | Subtotal | QLD | N/NSW | Subtotal | |
| 2013 Production (t) | 800 | 24,300 | 40,000 | 2,000 | 66,300 | 2,000 | 24,100 | 26,100 | 93,200 |
| 2013 Sown area (ha) | 500 | 17,650 | 38,000 | 2,000 | 57,650 | 1,500 | 19,800 | 21,300 | 79,450 |
| Variation from Dec 2013 (t) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Faba/Broad bean

Faba bean

| Region State | Western | Southern | | | | Northern | | | Australia Total |
|-----------------------------|---------|----------|---------|--------|----------|----------|--------|----------|--------------------|
| | WA | SA | VIC | S/NSW | Subtotal | QLD | N/NSW | Subtotal | |
| 2013 Production (t) | 9,200 | 121,300 | 126,600 | 30,700 | 278,600 | 0 | 39,900 | 39,900 | 327,700 |
| 2013 Sown area (ha) | 4,000 | 61,000 | 58,500 | 11,000 | 130,500 | 0 | 17,600 | 17,600 | 152,100 |
| Variation from Dec 2013 (t) | 0 | 0 | 11,900 | 0 | 11,900 | 0 | 0 | 0 | 11,900 |

Broad bean

| Region State | Western | Southern | | | | Northern | | | Australia Total |
|-----------------------------|---------|----------|--------|-------|----------|----------|-------|----------|--------------------|
| | WA | SA | VIC | S/NSW | Subtotal | QLD | N/NSW | Subtotal | |
| 2013 Production (t) | | 34,800 | 14,700 | | 49,500 | | | | 49,500 |
| 2013 Sown area (ha) | | 19,000 | 7,000 | | 26,000 | | | | 26,000 |
| Variation from Dec 2013 (t) | | 0 | 0 | | 0 | | | | 0 |

Lupin

Australian Sweet Lupin (*Angustifolius*)

| Region State | Western | Southern | | | | Northern | | | Australia Total |
|-----------------------------|---------|----------|--------|--------|----------|----------|-------|----------|--------------------|
| | WA | SA | VIC | S/NSW | Subtotal | QLD | N/NSW | Subtotal | |
| 2013 Production (t) | 460,000 | 77,800 | 29,100 | 22,400 | 129,300 | | 2,100 | 2,100 | 591,400 |
| 2013 Sown area (ha) | 245,000 | 55,500 | 28,000 | 24,000 | 107,500 | | 1,500 | 1,500 | 354,000 |
| Variation from Dec 2013 (t) | 44,000 | 0 | 0 | 0 | 0 | | 0 | 0 | 44,000 |

Australian Albus Lupin (*Albus*)

| Region State | Western | Southern | | | | Northern | | | Australia Total |
|-----------------------------|---------|----------|-----|--------|----------|----------|--------|----------|--------------------|
| | WA | SA | VIC | S/NSW | Subtotal | QLD | N/NSW | Subtotal | |
| 2013 Production (t) | 1,400 | | 200 | 18,600 | 18,800 | | 13,800 | 13,800 | 34,000 |
| 2013 Sown area (ha) | 1,000 | | 150 | 19,000 | 19,150 | | 12,700 | 12,700 | 32,850 |
| Variation from Dec 2013 (t) | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 |

Field pea

| Region State | Western | Southern | | | | Northern | | | Australia Total |
|-----------------------------|----------------|----------|--------|--------|----------|----------|--------|----------|--------------------|
| | WA | SA | VIC | S/NSW | Subtotal | QLD | N/NSW | Subtotal | |
| 2013 Production (t) | 37,100 | 184,400 | 68,000 | 37,700 | 290,100 | | 14,900 | 14,900 | 342,100 |
| 2013 Sown area (ha) | 32,000 | 111,500 | 51,000 | 41,000 | 203,500 | | 9,000 | 9,000 | 244,500 |
| Variation from Dec 2013 (t) | -20,800 | 0 | 0 | 0 | 0 | | 0 | 0 | -20,800 |

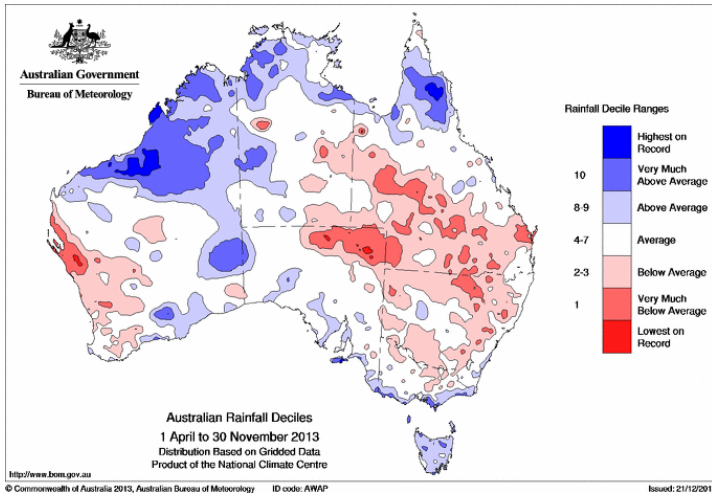
Lentil

Red & green lentil

| Region State | Western | Southern | | | | Northern | | | Australia Total |
|-----------------------------|---------|----------|---------|-------|----------|----------|-------|----------|--------------------|
| | WA | SA | VIC | S/NSW | Subtotal | QLD | N/NSW | Subtotal | |
| 2013 Production (t) | | 140,600 | 111,500 | 700 | 252,800 | | | | 252,800 |
| 2013 Sown area (ha) | | 88,700 | 79,000 | 700 | 168,400 | | | | 168,400 |
| Variation from Dec 2013 (t) | | 0 | 12,100 | 50 | 12,150 | | | | 12,150 |

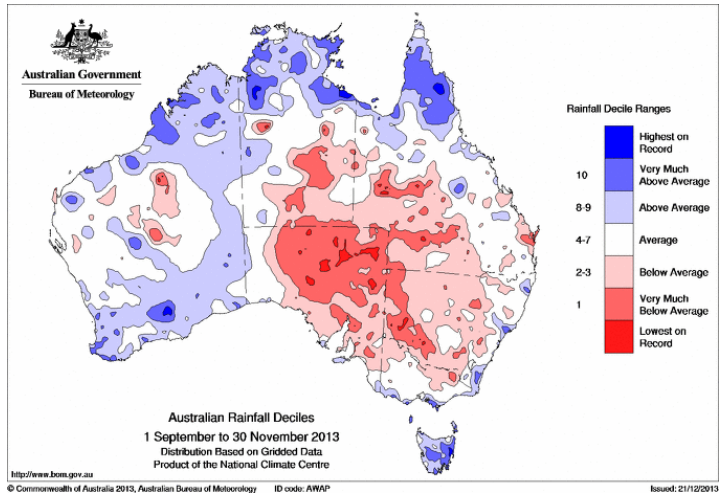
Australian weather 2013- rainfall

Growing season rainfall deciles- April to November



Growing season rainfall across Queensland and New South Wales was low, decile 1 - 3. In Western Australia, most districts had a decile 3 - 5 season but with rainfall totals heavier in August and September. The south east of WA recorded a decile 8 - 9 season. Victoria and South Australia recorded average rainfall.

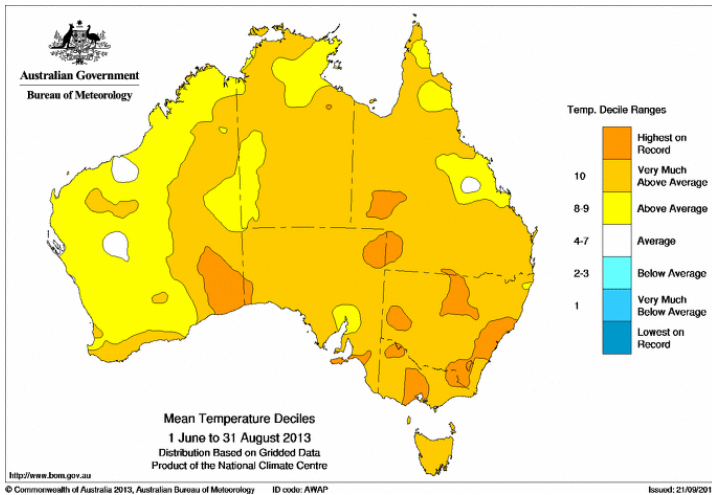
Spring rainfall deciles- September to November



September to November rainfall deciles show above average conditions, decile 8 - 9, in Western Australia which produced high yields across the state. Spring rainfall was low to average in the other states with a decile range of 2 - 5 for spring. Dry weather in November and December provided for an uninterrupted harvest.

Australian weather 2013- temperature

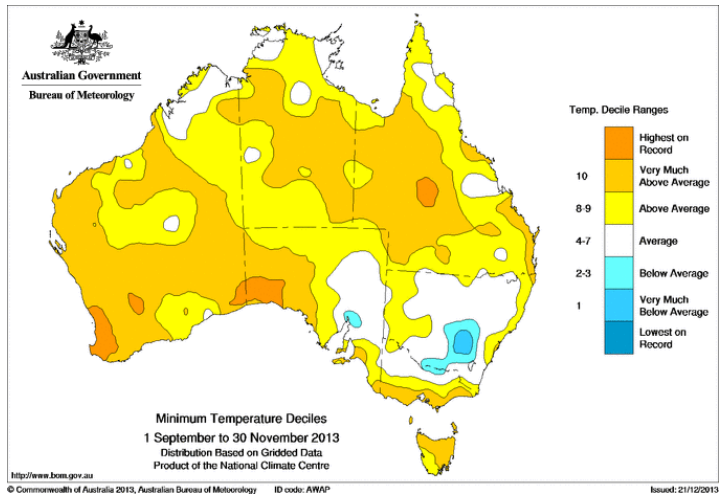
Winter temperature deciles- June to August



Winter temperatures across eastern Australia were very much higher than average at decile 10 and higher. Western Australia was also warmer than average at at decile 8. This trend of warmer winter temperatures has been seen in the last 3 years.

The warmer than average conditions contributed to excellent winter growth of crops, especially seen in South Australia and Victoria where the season break occurred in late May.

Spring temperature deciles- September to November



The minimum temperature decile map for September to November shows New South Wales and northern Victoria experiencing average minimum temperatures.

For Western Australia, South Australia and southern Victoria the map shows much higher than average minimum temperatures, decile 10 and above. 2013 was the first time for many years that damaging spring frosts have not occurred on a wide scale in southern regions of WA.

5 year area and production averages

| Australian Pulse Production | Average 2008/09-2012/13 | | 2013/14 estimates | |
|-----------------------------|-------------------------|---------------------|-------------------------|---------------------|
| | Area Planted (hectares) | Production (tonnes) | Area Planted (hectares) | Production (tonnes) |
| Lupin | 482,190 | 618,599 | 385,850 | 624,000 |
| Field Pea | 276,850 | 335,133 | 244,500 | 342,100 |
| Chickpea | 414,520 | 513,786 | 507,200 | 629,100 |
| Lentil | 140,740 | 192,390 | 168,400 | 252,800 |
| Bean | 163,820 | 278,892 | 178,100 | 377,200 |
| Total | 1,478,120 | 1,938,801 | 1,484,050 | 2,225,200 |

| Pulse Production by State | Average 2008/09-2012/13 | | 2013/14 estimates | |
|---------------------------|-------------------------|---------------------|-------------------------|---------------------|
| | Area Planted (hectares) | Production (tonnes) | Area Planted (hectares) | Production (tonnes) |
| New South Wales | 390,827 | 510,277 | 356,300 | 431,400 |
| Victoria | 215,940 | 288,180 | 271,650 | 399,600 |
| Queensland | 132,500 | 175,204 | 215,500 | 296,300 |
| South Australia | 346,500 | 497,970 | 355,100 | 585,900 |
| Western Australia | 551,470 | 467,450 | 285,500 | 512,000 |
| Total | 1,637,237 | 1,939,081 | 1,484,050 | 2,225,200 |

| Chickpea | Average 2008/09-2012/13 | | 2013/14 estimates | |
|-------------------|-------------------------|---------------------|-------------------------|---------------------|
| | Area Planted (hectares) | Production (tonnes) | Area Planted (hectares) | Production (tonnes) |
| New South Wales | 234,100 | 280,832 | 219,800 | 250,600 |
| Victoria | 31,100 | 39,740 | 48,000 | 49,500 |
| Queensland | 130,900 | 172,754 | 215,500 | 296,300 |
| South Australia | 12,760 | 15,100 | 19,400 | 27,000 |
| Western Australia | 5,660 | 5,360 | 4,500 | 5,700 |
| Total | 414,520 | 513,786 | 507,200 | 629,100 |

| Field Pea | Average 2008/09-2012/13 | | 2013/14 estimates | |
|-------------------|-------------------------|---------------------|-------------------------|---------------------|
| | Area Planted (hectares) | Production (tonnes) | Area Planted (hectares) | Production (tonnes) |
| New South Wales | 47,130 | 56,773 | 50,000 | 52,600 |
| Victoria | 48,200 | 63,720 | 51,000 | 68,000 |
| Queensland | - | - | - | - |
| South Australia | 120,500 | 163,360 | 111,500 | 184,400 |
| Western Australia | 61,020 | 51,280 | 32,000 | 37,100 |
| Total | 276,850 | 335,133 | 244,500 | 342,100 |

| Faba/Broad Bean | Average 2008/09-2012/13 | | 2013/14 estimates | |
|-------------------|-------------------------|---------------------|-------------------------|---------------------|
| | Area Planted (hectares) | Production (tonnes) | Area Planted (hectares) | Production (tonnes) |
| New South Wales | 41,560 | 75,912 | 28,600 | 70,600 |
| Victoria | 44,260 | 74,700 | 65,500 | 141,300 |
| Queensland | 1,600 | 2,450 | - | - |
| South Australia | 73,800 | 122,000 | 80,000 | 156,100 |
| Western Australia | 2,600 | 3,830 | 4,000 | 9,200 |
| Total | 163,820 | 278,892 | 178,100 | 377,200 |

| Lupin | Average 2008/09-2012/13 | | 2013/14 estimates | |
|-------------------|-------------------------|---------------------|-------------------------|---------------------|
| | Area Planted (hectares) | Production (tonnes) | Area Planted (hectares) | Production (tonnes) |
| New South Wales | 67,370 | 96,059 | 57,200 | 56,900 |
| Victoria | 26,580 | 30,760 | 28,150 | 29,300 |
| South Australia | 64,900 | 84,800 | 55,500 | 77,800 |
| Western Australia | 323,340 | 406,980 | 245,000 | 460,000 |
| Total | 482,190 | 618,599 | 385,850 | 624,000 |

| Lentil | Average 2008/09-2012/13 | | 2013/14 estimates | |
|-----------------|-------------------------|---------------------|-------------------------|---------------------|
| | Area Planted (hectares) | Production (tonnes) | Area Planted (hectares) | Production (tonnes) |
| New South Wales | 667 | 700 | 700 | 700 |
| Victoria | 65,800 | 79,260 | 79,000 | 111,500 |
| South Australia | 74,540 | 112,710 | 140,600 | 140,600 |
| Total | 140,740 | 192,390 | 252,800 | 183,500 |



Contact details

CEO
Tim Edgecombe

Pulse Australia Ltd
Level 10
24-28 Collins St
Melbourne Vic 3000
Phone: 03 9004 0520
0425 717 133
tim@pulseaus.com.au

Industry Development Managers

Queensland and northern New South Wales
Gordon Cumming
0408 923 474
gordon@pulseaus.com.au

South Australia, Victoria and southern New South Wales
Mary Raynes
0408 591 193
mary@pulseaus.com.au

Western Australia
Alan Meldrum
0427 384 760
alan@pulseaus.com.au

Disclaimer

The information herein has been obtained from sources considered reliable but its accuracy and completeness cannot be guaranteed. No liability or responsibility is accepted for any errors or for any negligence, omissions in the contents, default or lack of care for any loss or damage whatsoever that may arise from actions based on any material contained in this publication. Readers who act on this information do so at their own risk. Consult your adviser before making crop, marketing or investment decisions.

Acknowledgments: Pulse Australia would like to acknowledge the assistance of Domestic and Export Marketers, consultants and commercial agronomists, Rural Solutions SA, NSW DPI, DPI Victoria, Department of Agriculture & Food WA and Queensland Government– DAFF in providing information for this publication.

Copyright© 2014 Pulse Australia. All rights reserved.
This information is provided for the private use of subscribers and may not be republished in part or in full, in any form whatsoever, without the prior written consent of Pulse Australia Limited.