



Rosalind a new leader in 2015 barley trials

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In only its first year as a released variety, a new feed variety, Rosalind, out-yielded all other varieties in 2015 barley trials across SA.

Rosalind produced the highest average yield of 3.41 t/ha among 30 released varieties tested at 19, SARDI managed, NVT sites across South Australia. Not all varieties are tested at all sites and a trial at Cooke Plains produced variable and un-useable results due to drought, frost and patchiness at the site.

The trials, funded by GRDC, also tested a further 17 advanced lines from barley breeding programs operating throughout Australia.

Good autumn rainfall in most districts except the South East, resulted in the 2015 trials being sown very timely during the period May 8th (Paruna) through to June 18th (Poochera), with the majority sown around the middle to fourth week of May.

The late sown Poochera site was relocated from the planned Streaky Bay location due to lack of opening rainfall and the Poochera results, while useful, do not represent mainstream seeding date protocol.

In almost a mirror of the 2014 season, timely seeding in 2015 was followed by widespread wet and cold conditions through early winter and then dry and frosty conditions in August and early September.

Weather conditions during flowering and grain fill remained very dry and very hot in many districts with frost also occurring in eastern border districts through until mid-October.

While many SA grain producers were pessimistic of a good harvest, all but one barley NVT were harvested and surprisingly, produced statistically good yield results albeit, as expected, with relatively poor grain quality.

Site mean yield across the 19 valid NVT sites ranged from 1.03 t/ha at Poochera (late sown) to 4.74 t/ha at Bute with an average across the State of 2.88 t/ha compared to 3.68 t/ha in 2014 and 3.70 t/ha in 2013.

While the State average barley NVT grain yields in 2015 were 28% lower than the corresponding 2014 yields, regional differences were more mixed.

Compared to 2014, Upper Eyre Peninsula averaged 0.7 t/ha lower, Lower Eyre Peninsula 0.3 t/ha higher, Yorke Peninsula 1.06 t/ha lower, the Murray Mallee 0.81 t/ha lower and the Mid North and South East a dramatic 1.62 t/ha and 1.46 t/ha lower



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respectively, than the previous year.

Good early winter rainfall set potential for high yields and while conditions were favourable for foliar diseases, the incidence and level of infection on farm was generally low.

For the first time, barley NVT were treated with the new seed dressing, Systiva® which has good suppressing activity on a range of barley foliar diseases including the commonly found leaf rust and net blotches.

All sites have been additionally treated with fertilizer amended fungicides (flutriafol) since 2012. Low disease incidence in 2015 coupled with this fungicidal control resulted in no significant infection of any trial, a result rarely seen in the past.

Predicta B tests showing high levels of the rhizoctonia root pathogen at Cooke Plains, Paruna, Lameroo, and Poochera.

The very dry and hot spring conditions in 2015 created significant pressure on grain size and all grain receival quality parameters. Across all trials, average grain protein increased significantly from 11.9 percent in 2014 to 12.8 percent in 2015.

Average test weights declined from 69.95 to 64.51 kg/hl, screenings increased from 7.3 percent to 21.6 percent and retentions declined, from 69.0 to 36.9 percent in 2015.

Some of the reduction in average receival quality was understandably due to modest performances by some later maturing and less widely adapted varieties such as Charger, Gairdner, Fairview, Macquarie, Maltstar, Oxford and SY Rattler.

However, many sites suffered from the dry spring and in particular Bordertown, Keith, Turretfield, Cummins, Wanilla and Port Clinton experience considerable pressure on grain size. Turretfield averaged 61% screenings across all lines tested.

As expected, early season flowering varieties were generally those most favoured by the dry spring conditions in 2015.

Across all NVT sites Rosalind, a new feed barley released from the WA based Intergrain Breeding Program led Compass and SpartacusCL by 2 and 3 percent respectively. Rosalind, formerly tested as IGB1302, also performed similar to Compass in 2014 when Compass was the highest yielding commercial cultivar in NVT. Rosalind is a short statured, stiff strawed variety with CCN resistance and good resistance to most foliar diseases except spot form net blotch. Rosalind appears broadly adapted and was only significantly out-yielded by Compass at Warooka and Cummins.

Long term analysis suggests that Rosalind may have more potential than Compass in high yielding (>4.5t/ha) and Compass superior in the lower yielding situations. The grain



quality of Rosalind was quite acceptable with good test weight and screenings averaging 19% and plumpness at 44%, in line with the average of most varieties.

The second ranked variety, Compass, recently released from the University of Adelaide Barley Breeding program, again performed very well across NVT out-yielding its parent and the leading malting variety, Commander, by 18 percent. Similar to the outcome in 2014, only in the Mallee district, was there a large difference favouring Compass from other varieties, indicating it is well adapted to mallee soils.

Compass is still undergoing malting and brewing testing with a final accreditation decision now expected in March 2018.

Despite this, market evaluation is well underway and the superior grain plumpness of Compass will ensure a wide industry appeal. Across all 2015 NVT, it's screenings averaged only 10% and plumpness 61%, furthermore Compass only failed to make F1 grade, based on screenings, at 4 sites, in a year when F4 was very common among farmer deliveries.

Within trials, Compass once again produced grain with relatively low protein (average 11.6%). Compass, Commander and Buloke have shown this characteristic in previous seasons also.

While these low grain proteins are mostly a direct result of high yields, lower protein in malting varieties will improve probability of malting classification, but also may produce grain below minimum protein specification where nitrogen nutrition is very low.

The third placed variety, SpartacusCL, was also only recently released (Jan 2016) from the Intergrain Breeding Program. This imidazolinone tolerant variety is otherwise agronomically similar to Hindmarsh and LaTrobe. SpartacusCL is only in it's second year of SA evaluation and performed well, especially relative to Hindmarsh and LaTrobe. SpartacusCL is also undergoing malt and brewing accreditation with a final decision expected March 2018.

SpartacusCL seems to have a similar wide adaptational and disease resistance profile to Hindmarsh and LaTrobe coupled with good grain size and plumpness and high test weights. SpartacusCL averaged 21 percent higher yield across sites relative to the only other IMI tolerant and very widely grown variety, ScopeCL (31% of 2015/16 deliveries to Viterra).

SpartacusCL is expected to widely displace ScopeCL on farm although slower early growth, short height and poorer weed competitiveness in SpartacusCL could ensure ScopeCL an ongoing IMI tolerance role in many sandy mallee soils of SA. Furthermore, SpartacusCL did not perform as well in these

situations in 2015.

Just trailing the abovementioned three leading varieties, Hindmarsh, LaTrobe and Fathom averaged 7, 9 and 9 percent below Rosalind respectively.

As a food grade variety, Hindmarsh is now becoming outclassed relative to new higher yielding varieties but is still the second most widely grown variety in SA at 22 percent of 2015/16 deliveries to Viterra.

LaTrobe, derived from Hindmarsh, was accredited as a malt variety in early March 2015 and together with SpartacusCL could quickly displace Hindmarsh on farm. LaTrobe is now the leading malt variety for yield potential in SA NVT and averaged 11 percent higher yield than Commander in 2015.

LaTrobe has improved test weight over Commander but slightly lower retention and higher screenings as evidenced in the 2015 data. With the exception of high susceptibility to leaf scald, LaTrobe has equal or better resistance to all other major foliar diseases relative to Commander.

Fathom, a wide adapted new feed barley continued to perform well in trials relative to older varieties. Although now challenged by the feed variety Rosalind, Fathom has the advantage of good early vigour and weed competitiveness coupled with good grain size and low screenings and good foliar disease resistance.

Among the remaining well known varieties, Fleet, Commander, Buloke and Scope, average 2015 NVT grain yields were more than 8 percent below Fathom (17 percent below Rosalind) showing they are becoming quickly outclassed.

The attached tables support all of the data cited within this report but further information can be found at the NVT website, nvtonline.com.au. More specific varietal information can be found in the 2016 Crop Variety Sowing Guide, and the recently very recently updated 2016 Crop Variety Disease guide at pir.sa.gov.au ■

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Barley

| SA Barley Variety Yield Performance (2015 and long term, 2009-2015, expressed as a t/ha and % of site average yield) | | | | | | | | | | | | | | | | | | |
|--|--------------------------------|-------------|-------------|--------------------|-------------|--------------------------------|-------------|-------------|-------------|-------------|-----------------------|------------|--------------|------------|---------------------------------------|------------|--------------------|------------|
| Variety | LOWER & CENTRAL EYRE PENINSULA | | | | | UPPER & WESTERN EYRE PENINSULA | | | | | MURRAY | | | | MALLEE | | | |
| | 2015 (% site average) | | | | | 2015 (% site average) | | | | | 2015 (% site average) | | | | Long Term average across sites(09-15) | | | |
| | Wharminda | Cummins | t/ha | as % sites average | # trials | Darke Peak | Elliston | Mimmipa | Poochera | t/ha | as % sites average | # trials | Cooke Plains | Lameroo | Paruna | t/ha | as % sites average | # trials |
| Alestar | 93 | 102 | 99 | 4.41 | 107 | 8 | 93 | 95 | 69 | 2.96 | 102 | 15 | - | - | - | - | - | - |
| Bass | 92 | 95 | 95 | 4.24 | 103 | 16 | 65 | 91 | 59 | 2.93 | 101 | 23 | 89 | 97 | 97 | 2.26 | 96 | 17 |
| Buloke | 94 | 100 | 91 | 4.08 | 99 | 19 | 98 | 93 | 102 | 2.96 | 102 | 27 | 96 | 97 | 97 | 2.43 | 104 | 20 |
| Commander | 90 | 99 | 102 | 4.24 | 103 | 19 | 83 | 93 | 79 | 3.08 | 106 | 27 | 88 | 100 | 100 | 2.53 | 107 | 20 |
| Compass | 117 | 112 | 123 | 4.67 | 113 | 10 | 91 | 119 | 120 | 3.48 | 120 | 15 | 125 | 116 | 116 | 2.85 | 121 | 11 |
| Fathom | 115 | 108 | 104 | 4.37 | 106 | 16 | 108 | 112 | 130 | 3.25 | 112 | 23 | 106 | 112 | 112 | 2.61 | 111 | 17 |
| Flagship | 98 | 100 | - | - | - | - | 92 | 74 | 91 | 91 | - | - | - | - | - | - | - | - |
| Fleet | 103 | 93 | 93 | 4.26 | 103 | 19 | 101 | 99 | 105 | 3.18 | 109 | 27 | 98 | 91 | 91 | 2.66 | 113 | 20 |
| Flinders | 98 | 98 | 87 | 4.14 | 100 | 16 | 67 | 91 | 51 | 2.87 | 99 | 23 | 91 | 99 | 99 | 2.36 | 101 | 17 |
| Gairdner | 85 | 97 | 77 | 3.83 | 93 | 17 | - | - | - | - | - | - | - | - | - | 2.43 | 103 | 3 |
| Granger | 104 | 100 | 101 | 4.39 | 106 | 19 | 94 | 97 | 64 | 3.01 | 103 | 27 | 89 | 92 | 92 | 2.45 | 104 | 20 |
| Hindmarsh | 120 | 104 | 114 | 4.47 | 108 | 19 | 102 | 104 | 120 | 3.23 | 111 | 27 | 119 | 108 | 108 | 2.48 | 106 | 20 |
| SpartacusCL | 117 | 106 | 118 | 4.60 | 111 | 6 | 142 | 113 | 157 | 3.30 | 113 | 7 | 120 | 95 | 95 | 2.50 | 106 | 5 |
| Keel | 111 | 106 | 112 | 4.04 | 98 | 19 | 104 | 112 | 144 | 3.05 | 105 | 27 | 116 | 108 | 108 | 2.37 | 101 | 20 |
| LaTrobe | 116 | 101 | 115 | 4.55 | 110 | 13 | 103 | 117 | 99 | 3.27 | 112 | 19 | 111 | 112 | 112 | 2.52 | 107 | 14 |
| Macquarie | 73 | 90 | 83 | 3.84 | 93 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| Maltstar | 87 | 102 | 89 | 4.32 | 105 | 10 | 96 | 98 | 65 | 2.94 | 101 | 11 | - | - | - | - | - | - |
| Maritime | - | - | - | - | - | - | 98 | 109 | 89 | 121 | - | - | - | - | - | - | - | - |
| Oxford | 81 | 88 | 89 | 4.37 | 106 | 19 | 93 | 72 | 84 | 35 | 2.93 | 27 | 73 | 78 | 78 | 2.44 | 104 | 20 |
| Rosalind | 122 | 112 | 111 | 5.03 | 122 | 6 | 118 | 165 | 117 | 3.51 | 121 | 7 | 115 | 111 | 111 | 2.65 | 113 | 5 |
| Schooner | 101 | 85 | - | 3.62 | 88 | 18 | 95 | 81 | 92 | 2.63 | 90 | 27 | 95 | 92 | 92 | 2.11 | 90 | 20 |
| Scope | 90 | 104 | 94 | 4.04 | 98 | 19 | 99 | 84 | 87 | 2.94 | 101 | 27 | 93 | 99 | 99 | 2.48 | 106 | 20 |
| SY Rattler | 105 | 103 | 97 | 4.10 | 99 | 10 | 104 | 68 | 86 | 2.87 | 99 | 3 | 93 | 56 | 56 | 2.40 | 102 | 6 |
| Westminster | 74 | 89 | 88 | 4.03 | 98 | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| Site average t/ha | 3.5 | 4.28 | 4.28 | 4.28 | 4.28 | 14 | 3.68 | 1.19 | 4.07 | 1.03 | 1.61 | 1.6 | 1.61 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| LSD (t/ha) | 9 | 7 | 9 | | | | 4 | 24 | 8 | 16 | | | 12 | 12 | 12 | | | |
| Sowing date | 15-May | 11-May | 13-May | | | | 12-May | 25-May | 12-May | 18-Jun | | | | 22-May | 8-May | | | |
| Soil Type | SL | SL | L | | | | SL | S | L | SL | | | SL | SL | SCL/MC | | | |
| J-M / A-O rain mm | 25/328 | 22/284 | 26/299 | | | | 33/281 | 10/265 | 14/258 | 14/228 | | | 4/199 | 71/175 | 47/154 | | | |
| PHW | 6.1 | 6.5 | 8.2 | | | | 6.6 | 8.6 | 8.8 | 8.2 | | | 6.6 | 6.6 | 7.8 | | | |
| previous crop | Lupin | Pasture | Canola | | | | Canola | Pasture | Pasture | Wheat | | | barley | wheat | wheat | | | |
| Site Stress factors | fr, dl | fr, rh | fr, dl | | | | fr, N | dl, rh | dl | rh, dl | | | dl, r | dl, f, r | dl, f | | | |

Soil type: S=sand, L=loam, C=clay, U=light, M=medium, H=heavy, F=fine, NW=non wetting / = separates top soil from sub soil
Site stress factors: dl=dry post anthesis, f=frost, r=rhizoctonia, N=low nitrogen
Data source: SARDI/GRDC & IMVT (long term data based on weighted analysis of sites, 2009-2015)
Data analysis by GRDC funded National Statistics Group



Barley

| SA Barley Variety Yield Performance (2015 and long term, 2009-2015, expressed as a t/ha and % of site average yield) | | | | | | | | | | | | | | | | | | | |
|--|----------------------|-------------|-------------|--------------|-------------|---------------------------------------|---------------|----------|----------------------|-----------------|--------------|---------------------------------------|---------------|----------|----------------------|--------------------|---------------------------------------|---------------|----------|
| Variety | YORKE PENINSULA | | | | | | MID NORTH | | | | | | SOUTH EAST | | | | | | |
| | 2015(% site average) | | | | | Long Term average across sites(09-15) | | | 2015(% site average) | | | Long Term average across sites(09-15) | | | 2015(% site average) | | Long Term average across sites(09-15) | | |
| | Arthur-ton | Brent-wood | Bute | Port Clinton | War-ooka | t/ha | as % sites av | # trials | Crystal Brook | Salters Springs | Turret-field | t/ha | as % sites av | # trials | Border-town | Keith | t/ha | as % sites av | # trials |
| Alestar | 99 | 83 | 94 | 87 | 111 | 3.81 | 104 | 22 | 99 | 97 | 87 | 4.10 | 102 | 15 | - | - | | | |
| Bass | 100 | 97 | 102 | 101 | 125 | 3.74 | 102 | 29 | 99 | 102 | 94 | 4.10 | 102 | 16 | 101 | 101 | 4.16 | 101 | 13 |
| Buloke | 96 | 93 | 90 | 98 | 105 | 3.65 | 100 | 32 | 102 | 95 | 94 | 4.07 | 101 | 19 | 114 | 97 | 4.11 | 100 | 13 |
| Charger | 89 | 96 | 104 | 101 | 96 | 3.94 | 108 | 24 | 105 | 98 | 84 | 4.31 | 107 | 13 | 120 | 100 | 4.49 | 109 | 11 |
| Commander | 103 | 103 | 106 | 97 | 119 | 3.85 | 106 | 32 | 93 | 104 | 113 | 4.22 | 105 | 19 | 84 | 105 | 4.31 | 105 | 13 |
| Compass | 109 | 121 | 119 | 121 | 107 | 4.27 | 117 | 19 | 108 | 113 | 122 | 4.71 | 117 | 12 | 149 | 140 | 4.73 | 115 | 8 |
| Fathom | 108 | 118 | 112 | 114 | 87 | 4.01 | 110 | 27 | 105 | 105 | 123 | 4.45 | 110 | 16 | 122 | 105 | 4.42 | 108 | 11 |
| Flagship | 92 | 98 | 99 | 89 | 105 | | | | 90 | 91 | 105 | | | | - | - | | | |
| Fleet | 107 | 115 | 104 | 110 | 114 | 3.93 | 108 | 32 | 100 | 104 | 109 | 4.33 | 107 | 19 | 96 | 105 | 4.39 | 107 | 13 |
| Flinders | 82 | 85 | 93 | 86 | 72 | 3.58 | 98 | 27 | 91 | 93 | 84 | 3.95 | 98 | 16 | 96 | 97 | 4.09 | 100 | 11 |
| Gairdner | 85 | 78 | 87 | 88 | 94 | 3.37 | 92 | 32 | 86 | 82 | 83 | 3.76 | 93 | 19 | 85 | 71 | 3.92 | 95 | 13 |
| Granger | 98 | 98 | 98 | 93 | 76 | 3.82 | 105 | 32 | 97 | 101 | 90 | 4.14 | 103 | 19 | 88 | 99 | 4.34 | 105 | 13 |
| Hindmarsh | 114 | 117 | 110 | 110 | 108 | 4.02 | 110 | 32 | 109 | 110 | 115 | 4.47 | 111 | 19 | 144 | 106 | 4.41 | 107 | 13 |
| SpartacusCL | 114 | 118 | 109 | 113 | 128 | 4.14 | 114 | 10 | 110 | 116 | 129 | 4.58 | 114 | 6 | 149 | 117 | 4.52 | 110 | 4 |
| Keel | 108 | 121 | 107 | 121 | 129 | 3.75 | 103 | 32 | 111 | 110 | 115 | 4.24 | 105 | 19 | 124 | 102 | 4.08 | 99 | 12 |
| LaTrobe | 111 | 109 | 111 | 113 | 124 | 4.09 | 112 | 22 | 112 | 109 | 105 | 4.51 | 112 | 15 | 136 | 103 | 4.49 | 109 | 10 |
| Macquarie | 84 | 84 | 82 | 82 | 84 | 3.39 | 93 | 22 | 87 | 80 | 80 | 3.75 | 93 | 15 | 75 | 78 | 3.97 | 97 | 10 |
| Maltstar | 99 | 92 | 96 | 93 | 90 | 3.77 | 103 | 22 | 100 | 96 | 85 | 4.05 | 101 | 15 | - | - | 4.28 | 104 | 4 |
| Navigator | - | - | - | - | - | 3.44 | 94 | 14 | - | - | - | 3.80 | 94 | 10 | 54 | 56 | 3.82 | 93 | 11 |
| Oxford | 85 | 82 | 88 | 80 | 85 | 3.77 | 103 | 32 | 85 | 91 | 81 | 4.01 | 99 | 19 | 42 | 73 | 4.34 | 106 | 13 |
| Rosalind | 118 | 118 | 117 | 126 | 79 | 4.47 | 122 | 10 | 119 | 119 | 118 | 4.83 | 120 | 6 | 145 | 132 | 4.88 | 119 | 4 |
| Schooner | 98 | 94 | 99 | 96 | 87 | 3.23 | 88 | 32 | 92 | 90 | 102 | 3.69 | 92 | 19 | 99 | 107 | 3.63 | 88 | 13 |
| Scope | 95 | 95 | 90 | 95 | 90 | 3.60 | 99 | 32 | 95 | 91 | 96 | 4.02 | 100 | 19 | 115 | 108 | 4.09 | 100 | 13 |
| SY Rattler | 84 | 80 | 96 | 86 | 71 | 3.57 | 98 | 18 | 95 | 92 | 88 | 3.94 | 98 | 18 | 91 | 95 | 4.08 | 99 | 13 |
| Westminster | 84 | 78 | 87 | 75 | 83 | 3.44 | 94 | 32 | 87 | 86 | 67 | 3.74 | 93 | 15 | 61 | 68 | 4.01 | 98 | 13 |
| Site av. yield t/ha | 3.61 | 3.23 | 4.74 | 2.93 | 1.72 | | | | 3.45 | 4.12 | 2.42 | | | | 1.29 | 1.92 | | | |
| LSD (%) | 7 | 7 | 4 | 7 | 9 | | | | 4 | 5 | 12 | | | | 15 | 15 | | | |
| Date Sown | 25 May | 21 May | 11May | 18 May | 21 May | | | | 13 May | 26 May | 28 May | | | | 25 May | 21 May | | | |
| Soil type | SCL/CLS | L/SL | FS | ZL/FSL | KSL/S | | | | CL/LC | LC/MHC | FSL/LC | | | | red C | Brown CL/Limestone | | | |
| J-M / A-O rain mm | 53/238 | 36/220 | 61/207 | 57/327 | 45/202 | | | | 50/244 | 60/325 | 64/262 | | | | 48/229 | 73/188 | | | |
| pHw | 7.8 | 8.7 | 8.8 | 8.6 | 8.3 | | | | 7.1 | 8 | 7.9 | | | | 6.9 | 6.6 | | | |
| previous crop | wheat | medic | Lentils | wheat | canola | | | | wheat | wheat | medic | | | | canola | Beans | | | |
| Site Stress Factors | dl | dl | dl | dl | dl,hdm | | | | dl,N | | dl | | | | de,dl | de,dl,fr | | | |

Abbreviations
Soil type: S=sand, L=loam, C=clay, Li=light, M=medium, H=heavy, F=fine, NW=non wetting / = separates top soil from sub soil
Site stress factors: de=dry winter, dl=dry post anthesis, f=frost, r=rhizoctonia, N=low nitrogen
Data source: SARDI/GRDC & NVT (long term data based on weighted analysis of sites, 2009-2015)
Data analysis by GRDC funded National Statistics Group



Barley

| 2015 Barley variety performance for screenings (% < 2.2mm) across NVT sites | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------|---------|------|---------------|-----------------|-------------|------|---------|--------|------|---------------|-------|------|------------|------------|---------|----------|----------------------------------|------|-----------|-----------|------|-----------------|---------|------|-----------|-----------|--|
| | Lower Eyre Peninsula | | | | | Mid North | | | | | Murray Mallee | | | | South East | | | Central and Upper Eyre Peninsula | | | | | Yorke Peninsula | | | | all sites | |
| | Cummins | Wanilla | mean | Crystal Brook | Salters Springs | Turretfield | mean | Lameroo | Parana | mean | Bordertown | Keith | mean | Darke Peak | Ellistown | Mimipia | Poochera | Wharminda | mean | Arthurton | Brentwood | Bute | Port Clinton | Warooka | mean | all sites | | |
| Alestar | 13.8 | 34.6 | 24.2 | 6.9 | 16.0 | 62.0 | 28.3 | | | | | | | 2.4 | 6.8 | 6.4 | 16.3 | 1.7 | 6.7 | 12.3 | 16.3 | 7.5 | 13.8 | 3.4 | 10.7 | | | |
| Bass | 4.9 | 24.4 | 14.6 | 2.2 | 6.5 | 72.4 | 27.0 | 13.4 | 2.3 | 7.8 | 60.8 | 53.3 | 57.1 | 0.5 | 13.4 | 4.3 | 11.0 | 1.4 | 6.1 | 3.7 | 13.1 | 2.7 | 15.5 | 7.7 | 8.5 | 16.5 | | |
| Buloke | 37.5 | 59.3 | 48.4 | 4.6 | 16.5 | 71.2 | 30.8 | 19.1 | 5.0 | 12.1 | 43.7 | 63.0 | 53.4 | 3.1 | 14.8 | 25.0 | 17.7 | 2.8 | 12.7 | 15.3 | 25.8 | 27.2 | 24.8 | 22.1 | 23.0 | 26.2 | | |
| Charger | | | | 9.0 | 19.6 | 77.4 | 35.3 | | | | 47.6 | 49.9 | 48.7 | | | | | | | 16.7 | 25.6 | 4.0 | 23.8 | 11.2 | 16.3 | | | |
| Commander | 16.2 | 45.2 | 30.7 | 5.9 | 6.7 | 55.6 | 22.7 | 15.8 | 4.3 | 10.1 | 22.3 | 37.4 | 29.9 | 2.9 | 9.5 | 14.9 | 8.7 | 3.6 | 7.9 | 11.8 | 18.5 | 12.9 | 26.1 | 10.1 | 15.9 | 17.3 | | |
| Compass | 6.0 | 15.7 | 10.9 | 2.0 | 2.2 | 38.6 | 14.3 | 7.5 | 0.9 | 4.2 | 36.9 | 28.6 | 32.8 | 0.3 | 12.8 | 2.4 | 6.3 | 1.5 | 4.6 | 5.4 | 6.8 | 1.1 | 6.7 | 8.8 | 5.7 | 10.0 | | |
| Fathom | 13.3 | 19.3 | 16.3 | 2.5 | 3.4 | 36.7 | 14.2 | 11.6 | 2.0 | 6.8 | 38.6 | 40.9 | 39.8 | 0.9 | 8.7 | 4.8 | 10.6 | 2.1 | 5.4 | 8.2 | 9.5 | 4.1 | 6.3 | 10.9 | 7.8 | 12.3 | | |
| Flagship | | | | 4.3 | 5.5 | 63.5 | 24.4 | | | | | | | 1.6 | 22.2 | 10.3 | 35.6 | 3.9 | 14.7 | 7.8 | 17.1 | 13.7 | 24.9 | 11.8 | 15.0 | | | |
| Fleet | 15.1 | 23.1 | 19.1 | 2.7 | 4.8 | 53.5 | 20.3 | 13.1 | 3.8 | 8.4 | 41.1 | 46.6 | 43.8 | 1.8 | 12.8 | 4.3 | 7.0 | 2.1 | 5.6 | 5.3 | 10.5 | 3.6 | 17.7 | 4.8 | 8.4 | 14.4 | | |
| Flinders | 18.4 | 39.0 | 28.7 | 3.7 | 7.8 | 71.1 | 27.5 | 17.4 | 3.2 | 10.3 | 54.2 | 63.5 | 58.9 | 0.9 | 11.0 | 7.7 | 19.2 | 0.8 | 7.9 | 4.8 | 14.6 | 5.8 | 20.5 | 6.2 | 10.4 | 19.5 | | |
| Gairdner | 43.7 | 62.8 | 53.3 | 18.5 | 41.4 | 65.5 | 41.8 | | | | 58.3 | 66.6 | 62.5 | | | | | | | 14.7 | 27.8 | 28.2 | 37.3 | 20.4 | 25.7 | | | |
| Granger | 13.9 | 28.1 | 21.0 | 6.2 | 10.1 | 59.9 | 25.4 | 27.7 | 4.1 | 15.9 | 63.0 | 61.5 | 62.2 | 2.5 | 8.1 | 4.6 | 19.2 | 1.4 | 7.2 | 7.4 | 8.9 | 4.4 | 11.9 | 7.0 | 7.9 | 18.4 | | |
| Hindmarsh | 15.3 | 29.5 | 22.4 | 3.1 | 3.6 | 78.7 | 28.5 | 12.2 | 2.1 | 7.2 | 66.0 | 58.3 | 62.2 | 1.2 | 17.1 | 12.5 | 10.3 | 2.5 | 8.7 | 9.6 | 13.7 | 6.2 | 17.3 | 11.7 | 11.7 | 19.5 | | |
| Spartacus ^{CL} | 11.7 | 37.9 | 24.8 | 3.9 | 2.1 | 42.8 | 16.2 | 11.6 | 2.7 | 7.2 | 52.1 | 47.5 | 49.8 | 1.5 | 15.3 | 8.5 | 8.8 | 0.7 | 7.0 | 2.1 | 6.2 | 5.6 | 12.4 | 5.4 | 6.3 | 14.7 | | |
| Keel | 7.2 | 23.2 | 15.2 | 2.9 | 2.6 | 46.6 | 17.4 | 12.5 | 4.2 | 8.3 | 67.6 | 48.4 | 58.0 | 0.7 | 13.2 | 2.2 | 11.4 | 1.7 | 5.8 | 4.3 | 17.5 | 1.5 | 9.5 | 5.9 | 7.8 | 14.9 | | |
| Latrobe | 14.4 | 38.1 | 26.3 | 4.2 | 4.6 | 84.2 | 31.0 | 12.4 | 1.5 | 7.0 | 72.3 | 50.3 | 61.3 | 1.0 | 21.6 | 15.9 | 13.8 | 1.8 | 10.8 | 4.5 | 9.6 | 10.1 | 15.5 | 11.7 | 10.3 | 20.4 | | |
| Macquarie | 54.2 | 71.0 | 62.6 | 39.9 | 54.1 | 65.0 | 53.0 | | | | 43.5 | 55.1 | 49.3 | | | | | | | 32.9 | 20.0 | 42.5 | 47.6 | 25.3 | 33.7 | | | |
| Maltstar | 31.1 | 49.1 | 40.1 | 16.6 | 26.5 | 80.0 | 41.0 | | | | | | | 9.7 | 16.2 | 16.3 | 23.0 | 4.9 | 14.0 | 29.4 | 33.8 | 17.6 | 43.3 | 16.4 | 28.1 | | | |
| Maritime | | | | | | | | | | | | | | 0.3 | 8.9 | 4.4 | 6.4 | | | | | | | | | | | |
| Navigator | | | | | | | | | | | 45.5 | 38.3 | 41.9 | | | | | | | | | | | | | | | |
| Oxford | 28.3 | 43.3 | 35.8 | 28.9 | 21.1 | 50.3 | 33.4 | 24.9 | 21.0 | 22.9 | 41.0 | 57.0 | 49.0 | 14.5 | 11.8 | 32.2 | 26.5 | 5.9 | 18.2 | 13.0 | 11.9 | 29.4 | 28.4 | 13.5 | 19.2 | 26.5 | | |
| Rosalind | 20.9 | 29.0 | 25.0 | 5.5 | 4.0 | 66.3 | 25.2 | 13.1 | 3.0 | 8.0 | 67.5 | 37.5 | 52.5 | 1.0 | 18.2 | 9.6 | 16.6 | 2.0 | 9.5 | 10.2 | 11.6 | 7.3 | 11.7 | 28.0 | 13.8 | 19.1 | | |
| Schooner | | 32.5 | | 3.1 | 5.5 | 67.0 | 25.2 | 13.1 | 7.2 | 10.1 | 48.8 | 34.5 | 41.6 | 2.0 | 13.5 | 9.1 | 21.5 | 1.9 | 9.6 | 19.3 | 9.3 | 8.4 | 22.3 | 12.2 | 14.3 | | | |
| Scope | 26.6 | 42.9 | 34.8 | 5.4 | 18.3 | 68.3 | 30.7 | 18.2 | 3.0 | 10.6 | 29.4 | 40.8 | 35.1 | 2.5 | 23.3 | 20.3 | 10.7 | 1.7 | 11.7 | 6.0 | 22.2 | 20.9 | 26.2 | 21.3 | 19.3 | 21.5 | | |
| SY Rattler | 19.5 | 31.2 | 25.3 | 7.2 | 22.4 | 72.7 | 34.1 | 27.6 | 4.1 | 15.9 | 78.6 | 51.9 | 65.2 | 2.7 | 19.5 | 13.6 | 26.4 | 2.6 | 13.0 | 23.8 | 22.4 | 9.2 | 31.0 | 18.3 | 21.0 | 25.5 | | |
| Westminster | 10.1 | 33.1 | 21.6 | 4.9 | 9.7 | 28.7 | 14.4 | | | | 31.3 | 47.7 | 39.5 | | | | | 2.1 | | 4.9 | 5.7 | 8.1 | 24.3 | 6.7 | 9.9 | | | |
| Wimmera | | | | 4.0 | 15.9 | 43.1 | 21.0 | | | | 56.1 | 40.3 | 48.2 | | | | | | | 16.4 | 9.9 | 10.5 | 14.5 | 9.6 | 12.2 | | | |



Barley

| 2015 Barley variety performance for retention (% > 2.5mm) across NWT sites | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---------|------|---------------|-----------------|-------------|------|-----------|--------|------|---------------|-------|------|------------|-----------|---------|----------------------------------|-----------|------|-----------|-----------|-----------------|--------------|---------|------|--|----------------|
| | Lower Eyre Peninsula | | | | | Mid North | | | | | Murray Mallee | | | South East | | | Central and Upper Eyre Peninsula | | | | | Yorke Peninsula | | | | | all sites mean |
| | Cummins | Wanilla | mean | Crystal Brook | Salters Springs | Turretfield | mean | Lameroona | Paruna | mean | Border town | Keith | mean | Darke Peak | Ellistown | Mimipia | Poochera | Wharminda | mean | Arthurton | Brentwood | Bute | Port Clinton | Warooka | mean | | |
| Alestar | 41.3 | 22.3 | 31.8 | 44.3 | 28.4 | 6.4 | 26.3 | | | | | | | 73.4 | 65.9 | 59.8 | 34.5 | 84.5 | 63.6 | 37.7 | 20.1 | 48.3 | 31.7 | 71.5 | 41.9 | | |
| Bass | 57.2 | 32.8 | 45.0 | 68.1 | 50.9 | 2.6 | 40.5 | 29.4 | 67.1 | 48.3 | 3.4 | 8.5 | 6.0 | 92.1 | 53.7 | 69.0 | 39.3 | 87.3 | 68.3 | 57.2 | 32.9 | 65.4 | 22.7 | 57.5 | 47.1 | | |
| Buloke | 15.0 | 7.0 | 11.0 | 47.4 | 22.4 | 4.1 | 24.6 | 14.2 | 35.6 | 24.9 | 3.3 | 3.3 | 3.3 | 64.1 | 45.8 | 29.5 | 9.3 | 73.6 | 44.5 | 24.9 | 13.2 | 14.1 | 17.2 | 20.7 | 18.0 | | |
| Charger | | | | 58.4 | 30.4 | 5.3 | 31.4 | | | | 3.4 | 5.4 | 4.4 | | | | | | | 33.4 | 24.2 | 65.0 | 31.6 | 46.9 | 40.2 | | |
| Commander | 45.2 | 19.4 | 32.3 | 67.7 | 61.4 | 8.7 | 45.9 | 18.8 | 51.0 | 34.9 | 10.6 | 12.0 | 11.3 | 79.2 | 59.7 | 51.2 | 44.8 | 77.7 | 62.5 | 49.0 | 29.1 | 53.8 | 25.4 | 50.9 | 41.7 | | |
| Compass | 69.3 | 42.6 | 55.9 | 84.9 | 84.8 | 14.8 | 61.5 | 41.2 | 88.5 | 64.8 | 8.3 | 17.8 | 13.0 | 97.7 | 58.5 | 85.0 | 52.9 | 92.0 | 77.2 | 65.9 | 60.7 | 89.5 | 62.5 | 57.1 | 67.1 | | |
| Fathom | 45.5 | 31.7 | 38.6 | 78.0 | 60.3 | 12.3 | 50.2 | 19.1 | 60.6 | 39.9 | 4.7 | 10.5 | 7.6 | 92.3 | 58.6 | 71.4 | 35.7 | 81.8 | 68.0 | 57.5 | 41.5 | 66.8 | 60.0 | 42.5 | 53.7 | | |
| Flagship | | | | 49.0 | 39.8 | 4.6 | 31.1 | | | | | | | 81.7 | 31.9 | 47.1 | 9.3 | 63.9 | 46.8 | 42.2 | 15.3 | 31.8 | 20.5 | 47.1 | 31.4 | | |
| Fleet | 30.4 | 25.5 | 28.0 | 77.0 | 64.2 | 5.7 | 49.0 | 23.5 | 54.6 | 39.0 | 4.1 | 5.7 | 4.9 | 82.4 | 50.2 | 68.1 | 53.5 | 74.0 | 65.6 | 55.7 | 29.9 | 66.1 | 24.5 | 60.9 | 47.4 | | |
| Flinders | 28.2 | 17.0 | 22.6 | 54.9 | 35.1 | 4.1 | 31.4 | 19.0 | 53.3 | 36.1 | 2.3 | 5.4 | 3.9 | 87.1 | 54.5 | 55.4 | 25.1 | 88.0 | 62.0 | 49.6 | 22.5 | 46.9 | 22.0 | 62.1 | 40.6 | | |
| Gardner | 13.0 | 6.2 | 9.6 | 18.2 | 9.9 | 2.9 | 10.3 | | | | 2.5 | 3.0 | 2.8 | | | | | 60.3 | | 25.4 | 12.8 | 12.0 | 8.3 | 20.8 | 15.9 | | |
| Granger | 36.4 | 28.4 | 32.4 | 54.8 | 35.1 | 7.7 | 32.6 | 10.5 | 48.1 | 29.3 | 4.0 | 4.0 | 4.0 | 74.3 | 59.8 | 62.2 | 21.0 | 87.6 | 61.0 | 50.7 | 34.6 | 53.2 | 26.6 | 58.8 | 44.8 | | |
| Hindmarsh | 43.1 | 20.3 | 31.7 | 69.1 | 69.9 | 3.5 | 47.5 | 27.8 | 64.2 | 46.0 | 2.1 | 5.6 | 3.8 | 93.2 | 46.1 | 51.6 | 28.6 | 79.0 | 59.7 | 42.1 | 25.9 | 56.8 | 29.0 | 47.7 | 40.3 | | |
| Spartacus ^{CL} | 49.8 | 12.6 | 31.2 | 67.2 | 82.8 | 9.2 | 53.0 | 25.7 | 53.0 | 39.4 | 3.2 | 6.0 | 4.6 | 92.7 | 46.3 | 62.1 | 31.1 | 90.4 | 64.5 | 68.3 | 34.2 | 58.8 | 32.7 | 64.5 | 51.7 | | |
| Keel | 73.3 | 34.4 | 53.8 | 80.2 | 77.4 | 8.1 | 55.2 | 37.9 | 60.5 | 49.2 | 2.2 | 8.4 | 5.3 | 97.1 | 61.2 | 86.9 | 38.8 | 91.2 | 75.1 | 67.1 | 31.7 | 86.6 | 49.2 | 69.5 | 60.8 | | |
| LaTrobe | 40.4 | 12.0 | 26.2 | 63.2 | 59.2 | 2.6 | 41.7 | 23.6 | 71.4 | 47.5 | 1.8 | 6.8 | 4.3 | 92.0 | 37.0 | 46.2 | 21.6 | 84.1 | 56.2 | 56.6 | 27.0 | 39.6 | 27.2 | 44.2 | 38.9 | | |
| Macquarie | 8.3 | 6.4 | 7.3 | 8.2 | 4.4 | 4.5 | 5.7 | | | | 4.2 | 4.0 | 4.1 | | | | | 49.0 | | 17.0 | 24.7 | 7.1 | 9.0 | 23.2 | 16.2 | | |
| Maltstar | 18.6 | 13.0 | 15.8 | 14.8 | 19.4 | 2.7 | 12.3 | | | | | | | 31.4 | 36.6 | 34.4 | 20.0 | 64.6 | 37.4 | 19.5 | 11.8 | 22.7 | 10.2 | 31.0 | 19.0 | | |
| Maritime | | | | | | | | | | | | | | 96.4 | 62.2 | 69.8 | 44.3 | | | | | | | | | | |
| Navigator | | | | | | | | | | | 4.0 | 6.1 | 5.1 | | | | | | | | | | | | | | |
| Oxford | 22.6 | 14.5 | 18.5 | 15.9 | 21.0 | 4.8 | 13.9 | 11.0 | 14.1 | 12.5 | 4.9 | 3.2 | 4.1 | 30.9 | 42.7 | 15.5 | 17.7 | 59.6 | 33.3 | 29.4 | 21.3 | 13.4 | 10.7 | 36.2 | 22.2 | | |
| Rosalind | 35.5 | 22.5 | 29.0 | 65.0 | 64.7 | 4.1 | 44.6 | 33.3 | 60.8 | 47.1 | 1.5 | 10.7 | 6.1 | 93.4 | 49.2 | 64.5 | 24.8 | 85.8 | 63.5 | 48.7 | 37.2 | 66.9 | 44.3 | 20.2 | 43.5 | | |
| Schooner | | 20.2 | | 58.8 | 40.5 | 3.7 | 34.3 | 18.3 | 18.0 | 18.1 | 1.7 | 7.3 | 4.5 | 84.9 | 44.7 | 53.4 | 14.2 | 84.7 | 56.4 | 28.9 | 29.5 | 42.6 | 13.1 | 37.8 | 30.4 | | |
| Scope | 21.2 | 13.1 | 17.1 | 44.6 | 24.1 | 2.4 | 23.7 | 12.1 | 50.5 | 31.3 | 4.5 | 6.5 | 5.5 | 71.8 | 39.6 | 34.8 | 14.8 | 79.9 | 48.2 | 41.8 | 15.5 | 23.2 | 14.0 | 24.3 | 23.8 | | |
| SY Rattler | 35.0 | 23.4 | 29.2 | 51.4 | 25.0 | 2.6 | 26.3 | 14.7 | 56.8 | 35.8 | 1.1 | 5.6 | 3.3 | 75.6 | 36.8 | 44.3 | 9.7 | 81.1 | 49.5 | 28.9 | 18.3 | 49.6 | 15.6 | 32.1 | 28.9 | | |
| Westminster | 51.9 | 18.6 | 35.3 | 48.3 | 45.9 | 15.5 | 36.6 | | | | 5.5 | 6.5 | 6.0 | | | | | 79.0 | | 57.5 | 36.2 | 40.0 | 14.6 | 64.6 | 42.6 | | |
| Wimmera | | | | 56.9 | 28.6 | 6.6 | 30.7 | | | | 3.6 | 7.9 | 5.7 | | | | | | | 32.7 | 34.7 | 36.9 | 30.9 | 48.2 | 36.7 | | |



Barley

| 2015 Barley variety performance for test weight (kg/hl) across NVT sites | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------|---------|-------|---------------|-----------------------|---------------|-------|---------|--------|-------|------------|-------------|-------|----------------------------------|------------|----------|---------|----------|-----------------|-------|-----------|-----------|----------------|-------|--------------|---------|-------|
| | Lower Eyre Peninsula | | | | | Murray Mallee | | | | | South East | | | Central and Upper Eyre Peninsula | | | | | Yorke Peninsula | | | | all sites mean | | | | |
| | Cummins | Wanilla | mean | Crystal Brook | Salters Springs field | Turret field | mean | Lameroo | Paruna | mean | Mallee | Border town | Keith | mean | Darke Peak | Elliston | Minnipa | Poochera | Wharaminda | mean | Arthurton | Brentwood | | Bute | Port Clinton | Warooka | mean |
| Alestar | 63.94 | 58.03 | 60.99 | 66.95 | 61.47 | 61.51 | 63.31 | 63.78 | 70.95 | 67.37 | 62.59 | 62.45 | 62.52 | 64.82 | 63.33 | 65.80 | 65.80 | 64.68 | 65.00 | 63.95 | 65.70 | 65.28 | 61.43 | 65.34 | 67.87 | 65.12 | 66.08 |
| Bass | 69.10 | 64.50 | 66.80 | 69.30 | 67.21 | 60.48 | 65.66 | 63.33 | 69.92 | 66.62 | 63.37 | 61.79 | 62.58 | 63.70 | 63.23 | 62.27 | 65.26 | 65.97 | 64.09 | 64.12 | 65.78 | 63.96 | 62.49 | 66.89 | 67.57 | 67.62 | 63.92 |
| Buloke | 64.82 | 59.90 | 62.36 | 68.64 | 65.00 | 55.32 | 62.99 | 63.33 | 69.92 | 66.62 | 63.37 | 61.79 | 62.58 | 63.70 | 63.23 | 62.27 | 65.26 | 65.97 | 64.09 | 64.12 | 65.78 | 63.96 | 62.49 | 66.89 | 67.57 | 67.62 | 63.92 |
| Charger | | | | 65.70 | 61.49 | 54.27 | 60.49 | | | | 62.69 | 61.22 | 61.95 | | | | | | | 64.12 | 62.81 | 63.45 | 62.41 | 63.90 | 63.34 | | |
| Commander | 65.78 | 60.12 | 62.95 | 66.25 | 65.30 | 59.86 | 63.80 | 60.44 | 67.35 | 63.89 | 62.69 | 61.89 | 62.29 | 60.84 | 62.43 | 60.34 | 64.58 | 63.25 | 62.29 | 67.19 | 64.70 | 63.84 | 64.96 | 65.04 | 65.15 | 63.52 | |
| Compass | 67.29 | 62.03 | 64.66 | 68.24 | 66.05 | 60.06 | 64.79 | 60.48 | 68.68 | 64.58 | 62.79 | 60.78 | 61.78 | 64.88 | 59.66 | 64.44 | 63.09 | 65.24 | 63.46 | 65.54 | 64.12 | 66.33 | 65.50 | 63.15 | 64.93 | 64.12 | |
| Fathom | 65.22 | 62.25 | 63.73 | 67.89 | 65.91 | 60.08 | 64.63 | 60.48 | 66.35 | 63.42 | 61.87 | 61.89 | 61.88 | 65.36 | 63.57 | 63.62 | 63.41 | 65.22 | 64.23 | 66.67 | 65.99 | 64.06 | 66.39 | 62.43 | 65.11 | 64.14 | |
| Flagship | | | | 71.07 | 68.72 | 61.79 | 67.20 | | | | | | | 65.90 | 63.96 | 64.80 | 64.80 | 67.21 | 65.33 | 69.30 | 67.93 | 66.79 | 67.77 | 68.28 | 68.01 | | |
| Fleet | 61.93 | 60.50 | 61.22 | 65.26 | 64.42 | 56.62 | 62.10 | 59.88 | 66.49 | 63.19 | 63.76 | 61.24 | 62.50 | 61.35 | 62.83 | 61.53 | 62.05 | 63.23 | 62.20 | 65.34 | 65.12 | 62.41 | 64.72 | 64.56 | 64.43 | 62.80 | |
| Flinders | 66.51 | 60.36 | 63.44 | 69.68 | 66.27 | 61.10 | 65.68 | 63.07 | 69.54 | 66.30 | 64.70 | 62.93 | 63.81 | 64.26 | 63.62 | 63.01 | 65.86 | 65.93 | 64.54 | 68.38 | 65.86 | 65.76 | 65.38 | 66.11 | 66.30 | 65.18 | |
| Gairdner | 62.93 | 57.21 | 60.07 | 66.05 | 59.88 | 59.64 | 61.86 | | | | 62.85 | 60.38 | 61.61 | | | | | 64.60 | 64.60 | 65.84 | 65.34 | 61.29 | 64.82 | 65.00 | 64.46 | | |
| Granger | 66.59 | 61.55 | 64.07 | 67.69 | 65.24 | 62.65 | 65.19 | 62.17 | 68.05 | 65.11 | 63.88 | 62.37 | 63.13 | 63.23 | 65.58 | 64.28 | 65.91 | 66.25 | 65.05 | 68.26 | 67.31 | 66.43 | 66.27 | 67.73 | 67.20 | 65.34 | |
| Hindmarsh | 68.90 | 63.59 | 66.24 | 71.03 | 68.40 | 59.42 | 66.29 | 62.85 | 70.87 | 66.86 | 63.51 | 62.27 | 62.89 | 66.61 | 62.39 | 63.68 | 64.52 | 67.67 | 64.98 | 68.64 | 66.99 | 66.81 | 66.97 | 66.99 | 67.28 | 65.90 | |
| Spartacus ^{CL} | 69.40 | 64.26 | 66.83 | 71.07 | 68.86 | 62.67 | 67.53 | 63.76 | 69.52 | 66.64 | 64.56 | 63.59 | 64.07 | 66.67 | 65.12 | 65.22 | 65.82 | 67.35 | 66.03 | 70.10 | 68.26 | 67.39 | 67.97 | 69.50 | 68.64 | 66.90 | |
| Keel | 69.22 | 63.07 | 66.14 | 70.61 | 68.09 | 61.49 | 66.73 | 61.57 | 69.82 | 65.70 | 59.42 | 59.50 | 59.46 | 67.09 | 61.83 | 66.99 | 62.97 | 68.94 | 65.56 | 68.72 | 65.70 | 69.42 | 68.48 | 67.63 | 67.99 | 65.82 | |
| LaTrobe | 69.02 | 63.59 | 66.30 | 71.23 | 68.60 | 55.90 | 65.24 | 63.66 | 72.03 | 67.85 | 63.45 | 61.43 | 62.44 | 67.55 | 63.13 | 64.92 | 63.96 | 67.27 | 65.37 | 70.61 | 67.99 | 66.89 | 67.87 | 67.37 | 68.15 | 66.13 | |
| Macquarie | 61.18 | 55.68 | 58.43 | 64.96 | 60.52 | 61.18 | 62.22 | | | | 63.90 | 61.85 | 62.88 | 60.88 | 64.02 | 60.68 | 67.21 | 64.62 | 63.31 | 66.43 | 66.11 | 59.70 | 64.12 | 66.87 | 64.65 | | |
| Maltstar | 62.21 | 55.04 | 58.63 | 65.97 | 60.10 | 59.76 | 61.95 | | | | | | | 64.72 | 63.19 | 62.35 | 64.82 | | | 64.12 | 64.30 | 61.41 | 64.28 | 65.90 | 64.00 | | |
| Maritime | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Navigator | | | | | | | | | | | 65.78 | 65.16 | 65.47 | | | | | | | | | | | | | | |
| Oxford | 64.34 | 58.45 | 61.39 | 65.64 | 62.29 | 65.54 | 64.49 | 64.26 | 67.19 | 65.73 | 65.24 | 65.12 | 65.18 | 60.10 | 65.58 | 59.66 | 67.63 | 62.45 | 63.08 | 68.44 | 68.17 | 62.33 | 66.93 | 68.38 | 66.85 | 64.62 | |
| Rosalind | 65.62 | 61.53 | 63.58 | 69.48 | 65.46 | 60.24 | 65.06 | 62.49 | 70.38 | 66.43 | 61.59 | 62.97 | 62.28 | 65.10 | 63.43 | 63.29 | 64.02 | 68.13 | 64.79 | 66.49 | 65.84 | 66.85 | 67.85 | 67.85 | 65.40 | 66.48 | 65.06 |
| Schooner | | | | 70.36 | 68.28 | 62.15 | 66.93 | 64.48 | 70.32 | 67.40 | 67.33 | 65.88 | 66.60 | 66.09 | 65.86 | 65.76 | 65.99 | 66.47 | 66.03 | 68.26 | 67.75 | 66.63 | 68.64 | 67.45 | 67.75 | | |
| Scope | 66.03 | 61.04 | 63.54 | 68.70 | 64.08 | 57.29 | 63.36 | 62.57 | 69.78 | 66.17 | 65.38 | 63.64 | 64.51 | 64.94 | 62.39 | 62.53 | 65.90 | 65.99 | 64.35 | 67.73 | 65.06 | 62.97 | 65.46 | 64.18 | 65.08 | 64.51 | |
| SY Rattler | 65.02 | 60.78 | 62.90 | 67.69 | 62.97 | 60.58 | 63.74 | 61.49 | 69.74 | 65.62 | 61.85 | 61.14 | 61.49 | 62.61 | 63.43 | 60.70 | 65.24 | 64.62 | 63.32 | 66.61 | 65.50 | 63.31 | 64.86 | 65.34 | 65.12 | 63.87 | |
| Westminster | 64.70 | 55.46 | 60.08 | 67.35 | 63.07 | 65.04 | 65.15 | | | | 64.68 | 61.69 | 63.19 | | | | | 63.80 | | 69.22 | 68.07 | 62.87 | 64.52 | 69.28 | 66.79 | | |
| Wimmera | | | | 68.01 | 63.49 | 64.70 | 65.40 | | | | 65.16 | 65.68 | 65.42 | | | | | | | 67.23 | 67.15 | 63.68 | 67.91 | 68.11 | 66.82 | | |



Barley

| 2015 Barley variety performance for grain protein (% at 0% moisture) across NVT sites | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------|---------|------|---------------|----------------|-------------|------|-----------|--------|------|---------------|-------|------|------------|----------|---------|----------------------------------|-----------|------|-----------|-----------|-----------------|--------------|---------|----------------|------|
| | Lower Eyre Peninsula | | | | | Mid North | | | | | Murray Mallee | | | South East | | | Central and Upper Eyre Peninsula | | | | | Yorke Peninsula | | | all sites mean | |
| | Cummins | Wanilla | mean | Crystal Brook | Salter Springs | Turretfield | mean | Lameroona | Paruna | mean | Border town | Keith | mean | Darke Peak | Elliston | Minnipa | Poochera | Wharminda | mean | Arthurton | Brentwood | Bute | Port Clinton | Warooka | | mean |
| Alestar | 12.0 | 13.7 | 12.9 | 7.5 | 10.4 | 17.8 | 11.9 | | | | | | | 8.2 | 11.9 | 11.5 | 16.9 | 9.6 | 11.6 | 12.2 | 14.9 | 12.0 | 13.4 | 11.8 | 12.9 | |
| Bass | 12.9 | 14.6 | 13.8 | 8.4 | 11.6 | 19.1 | 13.0 | 14.7 | 12.2 | 13.5 | 18.1 | 17.5 | 17.8 | 8.5 | 13.3 | 13.0 | 17.9 | 10.2 | 12.6 | 12.7 | 14.0 | 12.4 | 13.7 | 11.0 | 12.8 | 13.5 |
| Buloke | 12.3 | 14.9 | 13.6 | 7.8 | 10.6 | 16.5 | 11.6 | 12.7 | 12.2 | 12.5 | 16.5 | 15.3 | 15.9 | 8.5 | 11.6 | 12.4 | 15.4 | 9.6 | 11.5 | 13.0 | 14.0 | 12.4 | 12.8 | 11.7 | 12.8 | 12.6 |
| Charger | | | | 7.3 | 11.0 | 16.9 | 11.7 | | | | 16.4 | 16.6 | 16.5 | | | | | | | 12.8 | 13.5 | 11.0 | 12.5 | 11.7 | 12.3 | |
| Commander | 11.5 | 13.9 | 12.7 | 7.8 | 10.6 | 15.8 | 11.4 | 13.4 | 10.7 | 12.1 | 17.2 | 16.2 | 16.7 | 8.7 | 12.1 | 12.3 | 15.6 | 9.8 | 11.7 | 12.2 | 13.7 | 12.0 | 13.5 | 12.0 | 12.7 | 12.6 |
| Compass | 11.2 | 13.5 | 12.4 | 7.2 | 9.8 | 15.1 | 10.7 | 11.3 | 9.6 | 10.5 | 15.1 | 15.1 | 15.1 | 7.6 | 11.1 | 10.8 | 14.6 | 9.2 | 10.7 | 12.2 | 12.2 | 10.0 | 12.6 | 11.3 | 11.7 | 11.6 |
| Fathom | 12.5 | 13.9 | 13.2 | 8.1 | 11.0 | 16.3 | 11.8 | 12.5 | 11.8 | 12.2 | 16.0 | 16.2 | 16.1 | 8.2 | 12.0 | 12.4 | 14.7 | 10.0 | 11.5 | 13.4 | 13.3 | 11.9 | 12.9 | 13.1 | 12.9 | 12.6 |
| Flagship | | 14.7 | | 8.2 | 10.5 | 16.9 | 11.9 | | | | | | | 8.3 | 12.4 | 12.6 | 16.5 | 9.9 | 11.9 | 13.3 | 14.0 | 12.2 | 13.6 | 11.9 | 13.0 | |
| Fleet | 12.5 | 14.9 | 13.7 | 7.7 | 10.1 | 16.6 | 11.5 | 13.9 | 11.7 | 12.8 | 17.6 | 16.7 | 17.2 | 8.0 | 12.4 | 11.7 | 16.0 | 9.2 | 11.5 | 12.0 | 13.6 | 11.5 | 14.1 | 13.2 | 12.9 | 12.8 |
| Flinders | 13.6 | 14.5 | 14.1 | 8.6 | 11.2 | 18.3 | 12.7 | 13.7 | 12.4 | 13.1 | 17.9 | 17.8 | 17.9 | 8.8 | 14.0 | 13.0 | 17.9 | 9.8 | 12.7 | 13.5 | 14.3 | 12.1 | 13.9 | 12.5 | 13.3 | 13.6 |
| Gardner | 12.8 | 14.1 | 13.5 | 8.8 | 11.5 | 17.5 | 12.6 | | | | 17.8 | 17.2 | 17.5 | | | | | 9.9 | | 13.5 | 14.8 | 12.8 | 14.1 | 12.3 | 13.5 | |
| Granger | 12.5 | 14.7 | 13.6 | 7.7 | 10.5 | 18.3 | 12.2 | 14.7 | 11.9 | 13.3 | 18.6 | 18.2 | 18.4 | 8.5 | 12.1 | 12.4 | 18.3 | 9.5 | 12.2 | 12.8 | 14.2 | 11.8 | 13.2 | 12.0 | 12.8 | 13.3 |
| Hindmarsh | 12.1 | 13.5 | 12.8 | 7.9 | 10.3 | 16.3 | 11.5 | 12.7 | 11.5 | 12.1 | 16.1 | 16.6 | 16.4 | 8.3 | 11.7 | 12.5 | 14.6 | 9.9 | 11.4 | 12.1 | 13.2 | 11.7 | 12.5 | 11.1 | 12.1 | 12.3 |
| Spartacus ^{CL} | 11.9 | 14.5 | 13.2 | 7.9 | 10.5 | 15.2 | 11.2 | 12.4 | 12.4 | 12.4 | 15.8 | 17.1 | 16.5 | 8.3 | 11.5 | 11.7 | 14.1 | 9.4 | 11.0 | 12.3 | 12.5 | 11.4 | 13.3 | 11.2 | 12.1 | 12.3 |
| Keel | 11.7 | 14.1 | 12.9 | 7.9 | 10.5 | 14.6 | 11.0 | 12.1 | 11.1 | 11.6 | 14.5 | 14.2 | 14.4 | 8.0 | 11.4 | 10.8 | 14.8 | 9.6 | 10.9 | 12.4 | 12.7 | 10.7 | 12.4 | 11.8 | 12.0 | 11.9 |
| LaTrobe | 11.8 | 13.5 | 12.7 | 7.6 | 10.2 | 15.6 | 11.1 | 11.4 | 11.8 | 11.6 | 16.8 | 15.9 | 16.4 | 8.1 | 11.4 | 11.6 | 13.9 | 9.6 | 10.9 | 11.7 | 12.1 | 10.9 | 12.3 | 10.7 | 11.5 | 11.9 |
| Macquarie | 13.3 | 14.4 | 13.9 | 9.0 | 11.9 | 19.1 | 13.3 | | | | 19.5 | 18.0 | 18.8 | | | | | 9.7 | | 13.5 | 14.6 | 13.2 | 14.7 | 11.9 | 13.6 | |
| Maltstar | 11.8 | 13.2 | 12.5 | 7.1 | 10.1 | 16.8 | 11.3 | | | | | | | 7.3 | 11.0 | 11.2 | 16.5 | 9.0 | 11.0 | 12.5 | 13.1 | 11.3 | 12.9 | 11.6 | 12.3 | |
| Maritime | | | | | | | | | | | | | | 8.1 | 12.7 | 13.0 | 17.1 | | | | | | | | | |
| Navigator | | | | | | | | | | | 20.7 | 19.3 | 20.0 | | | | | | | | | | | | | |
| Oxford | 12.0 | 14.2 | 13.1 | 8.0 | 10.6 | 18.2 | 12.3 | 14.9 | 12.2 | 13.6 | 19.2 | 17.1 | 18.2 | 8.2 | 12.7 | 13.2 | 18.3 | 9.6 | 12.4 | 13.1 | 14.4 | 12.3 | 14.5 | 11.6 | 13.2 | 13.4 |
| Rosalind | 11.7 | 13.9 | 12.8 | 7.3 | 9.7 | 15.8 | 10.9 | 12.1 | 11.9 | 12.0 | 15.6 | 16.1 | 15.9 | 8.1 | 11.0 | 10.8 | 13.4 | 9.3 | 10.5 | 11.4 | 12.1 | 11.5 | 11.6 | 12.3 | 11.8 | 11.9 |
| Schooner | | 13.9 | | 8.5 | 11.1 | 17.3 | 12.3 | 13.2 | 12.7 | 13.0 | 18.6 | 16.7 | 17.7 | 8.2 | 13.2 | 13.0 | 18.4 | 10.1 | 12.6 | 13.8 | 14.7 | 12.3 | 15.0 | 12.2 | 13.6 | |
| Scope | 12.4 | 14.7 | 13.6 | 8.1 | 11.3 | 16.9 | 12.1 | 12.6 | 11.8 | 12.2 | 16.5 | 15.7 | 16.1 | 7.9 | 12.1 | 12.7 | 15.6 | 9.4 | 11.5 | 12.6 | 14.4 | 12.4 | 13.8 | 12.0 | 13.0 | 12.8 |
| SY Rattler | 12.5 | 14.4 | 13.5 | 7.9 | 11.0 | 19.0 | 12.6 | 12.8 | 12.2 | 12.5 | 17.0 | 16.8 | 16.9 | 7.7 | 12.5 | 12.4 | 15.7 | 9.5 | 11.6 | 12.5 | 14.5 | 12.4 | 13.9 | 12.4 | 13.1 | 13.0 |
| Westminster | 13.1 | 14.8 | 14.0 | 8.9 | 12.1 | 19.4 | 13.5 | | | | 19.4 | 18.2 | 18.8 | | | | | 10.2 | | 13.8 | 15.2 | 12.6 | 15.5 | 12.8 | 14.0 | |
| Wimmera | | | | 8.7 | 11.4 | 19.1 | 13.1 | | | | 19.6 | 18.4 | 19.0 | | | | | | | 15.0 | 14.8 | 13.4 | 14.4 | 11.6 | 13.8 | |