

Cereals

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New wheat varieties in 2019

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Wheat NVT

The 2020 South Australia Crop Sowing Guide (<https://grdc.com.au/2020-south-australian-crop-sowing-guide>) has the current information on all varieties including the 2019 recent releases including Vixen, and the Clearfield varieties Sheriff CL Plus and Razor CL Plus. In 2019 there have also been several new slightly slower developing milling wheat varieties, Catapult and RockStar, released. Only the 2019 released variety descriptions are listed in this article compiled from the 2020 South Australia Crop Sowing Guide.

Catapult was released in 2019 by AGT as a variety for late April/early May sowing. Catapult offers wide adaptation and has a slightly slower development pattern suited for earlier planting opportunities in late April to early May. Yield evaluation of Catapult from earlier sowing is limited in SA and more evaluation is required. Initial data suggests Catapult produces grain with high test weights and low screenings and is suitable for wheat on wheat situations, having good Yellow leaf spot resistance. Seed available from AGT Affiliates, retailers or through Seed Sharing™. (EPR \$3.25/t GST ex).

Razor CL Plus is an imidazolinone herbicide tolerant (Clearfield® Plus) ASW wheat released by AGT. Razor CL Plus is an early developing variety, slightly

quicker than Mace. The long-term performance of Razor CL Plus suggests it is the highest yielding Clearfield® variety and on average is 3% higher than Mace. Razor CL Plus is rated SVS for Septoria tritici blotch, S to Leaf rust, and MS to Stripe rust but MR to CCN. Seed is available from AGT affiliates. (EPR \$3.30/t GST ex).

RockStar has been released in 2019 by InterGrain. RockStar offers wide adaptation but has a slightly slower development pattern suited for earlier planting opportunities in late April to early May. Yield performance from May to June sowing dates in 2018 suggests that RockStar yields similarly or slightly less than Scepter. Yield evaluation of RockStar from earlier sowing is limited in SA and more evaluation is required. RockStar is rated MRMS to Stripe rust and Yellow leaf spot, S to Powdery mildew and Leaf rust, and MSS to Septoria. RockStar is available for planting in 2020 from local resellers and Seedclub members. (EPR \$3.50/t GST ex).

Sheriff CL Plus is an imidazolinone herbicide tolerant (Clearfield® Plus) APW wheat released by InterGrain in 2018. Sheriff CL Plus is a mid to late-flowering variety, is similar to LongReach Trojan in developmental speed and can be sown slightly earlier than the other Clearfield® Plus wheat varieties. The long-term NVT performance of Sheriff CL Plus suggests it

yields similarly to Mace and has stable yields across most regions. Sheriff CL Plus is rated SVS to Leaf rust and Powdery mildew, MSS to stem and Stripe rust, S to Septoria tritici blotch, MRMS to Yellow leaf spot, and MS to CCN. Seed is available for planting in 2020 from local resellers or InterGrain Seedclub members. (EPR \$4.25/t GST ex).

Vixen is an early flowering variety that develops slightly quicker than Scepter. Vixen was released by InterGrain in 2018 and has an AH Classification in SA. Long-term data suggests performance is similar to Scepter, but it performed slightly above Scepter in 2016 evaluation. The variety's development speed is suited to mid-May to later sowings. Vixen is rated SVS to Leaf rust and Powdery mildew, MRMS to stem and Stripe rust, S to Septoria tritici blotch, MRMS to Yellow leaf spot, and S to CCN. Vixen seed is approved for grower to grower trading and seed is available through local resellers or InterGrain Seedclub members. (EPR \$3.50/t GST ex).



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Eyre Peninsula 2019 NVT wheat trial yields in t/ha and expressed as percentage of site mean

| Region Nearest Town Variety Name | Lower EP | | | | Upper EP | | | | | | | | | | | |
|--|---|-----|--|-----|--|-----|--|-----|--|-----|------------|-----|-------------|-----|------------|-----|
| | Cummins | | Kimba | | Minnipa | | Mitchellville | | Nunjikompita | | Penong | | Streaky Bay | | Warrambo | |
| | t/ha | % | t/ha | % | t/ha | % | t/ha | % | t/ha | % | t/ha | % | t/ha | % | t/ha | % |
| Beckom | 6.35 | 107 | 0.32 | 98 | 2.06 | 119 | 1.14 | 106 | 1.13 | 103 | 0.39 | 89 | 2.37 | 103 | 2.07 | 111 |
| Catapult | 5.54 | 93 | 0.32 | 99 | 1.74 | 101 | 0.97 | 90 | 1.07 | 98 | 0.41 | 94 | 2.26 | 99 | 2.01 | 108 |
| Chief CL Plus | 5.52 | 93 | 0.26 | 79 | 1.47 | 85 | 0.77 | 71 | 1.06 | 97 | 0.34 | 77 | 2.10 | 92 | 1.47 | 79 |
| Cobalt | 4.56 | 77 | 0.36 | 112 | 1.41 | 81 | 1.04 | 96 | 1.10 | 101 | 0.54 | 123 | 2.40 | 105 | 1.75 | 94 |
| Corack | 6.06 | 102 | 0.29 | 90 | 1.33 | 77 | 1.18 | 110 | 1.03 | 94 | 0.36 | 82 | 2.14 | 93 | 1.58 | 85 |
| Cosmick | 5.67 | 95 | 0.40 | 123 | 1.81 | 104 | 1.27 | 118 | 1.19 | 109 | 0.50 | 114 | 2.31 | 101 | 1.99 | 107 |
| Cutlass | 5.13 | 86 | 0.21 | 65 | 1.50 | 87 | 0.75 | 69 | 0.99 | 90 | 0.47 | 108 | 2.11 | 92 | 1.72 | 93 |
| Devil | 5.66 | 95 | 0.39 | 120 | 1.65 | 95 | 1.18 | 109 | 1.15 | 105 | 0.44 | 99 | 2.56 | 112 | 1.92 | 103 |
| DS Darwin | 5.25 | 88 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| DS Pascal | 5.70 | 96 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Emu Rock | 5.86 | 98 | 0.45 | 138 | 1.91 | 110 | 1.59 | 147 | 1.11 | 101 | 0.50 | 114 | 2.42 | 105 | 1.94 | 104 |
| Grenade CL Plus | 5.74 | 96 | 0.32 | 99 | 1.74 | 101 | 1.09 | 102 | 1.06 | 97 | 0.44 | 100 | 1.99 | 87 | 2.00 | 108 |
| Kord CL Plus | 4.99 | 84 | 0.27 | 84 | 1.42 | 82 | 1.04 | 97 | 0.95 | 87 | 0.40 | 91 | 2.08 | 91 | 1.63 | 87 |
| LRPB Arrow | 6.69 | 112 | 0.31 | 96 | 1.78 | 103 | 0.89 | 83 | 1.14 | 104 | 0.38 | 87 | 2.27 | 99 | 1.74 | 93 |
| LRPB Cobra | 6.64 | 112 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LRPB Havoc | 6.86 | 115 | 0.24 | 75 | 1.66 | 96 | 1.17 | 108 | 0.99 | 90 | 0.31 | 71 | 2.28 | 100 | 1.79 | 96 |
| LRPB Scout | 6.00 | 101 | 0.35 | 108 | 2.16 | 125 | 1.06 | 99 | 1.15 | 105 | 0.48 | 109 | 2.35 | 103 | 2.23 | 120 |
| LRPB Trojan | 6.29 | 106 | 0.25 | 76 | 1.57 | 91 | 0.97 | 90 | 1.02 | 93 | 0.46 | 104 | 2.22 | 97 | 1.63 | 87 |
| Mace | 5.54 | 93 | 0.30 | 93 | 1.68 | 97 | 1.06 | 98 | 1.15 | 105 | 0.36 | 83 | 2.28 | 99 | 1.80 | 97 |
| Razor CL Plus | 6.22 | 105 | 0.37 | 114 | 1.81 | 105 | 0.96 | 89 | 1.17 | 107 | 0.43 | 98 | 2.41 | 105 | 2.02 | 109 |
| RockStar | 6.61 | 111 | 0.39 | 121 | 2.03 | 117 | 0.81 | 75 | 1.19 | 109 | 0.48 | 110 | 2.47 | 108 | 2.17 | 117 |
| Scepter | 5.54 | 93 | 0.32 | 98 | 1.70 | 98 | 1.18 | 110 | 1.17 | 107 | 0.43 | 99 | 2.48 | 108 | 1.78 | 95 |
| Sheriff CL Plus | 6.36 | 107 | 0.30 | 93 | 1.85 | 107 | 0.87 | 81 | 1.09 | 100 | 0.45 | 101 | 2.36 | 103 | 1.98 | 106 |
| Shield | 6.17 | 104 | 0.44 | 136 | 1.82 | 105 | 1.02 | 95 | 1.08 | 98 | 0.50 | 113 | 2.30 | 100 | 1.98 | 106 |
| Vixen | 7.35 | 123 | 0.43 | 134 | 1.94 | 112 | 1.68 | 156 | 1.17 | 107 | 0.49 | 112 | 2.60 | 113 | 2.44 | 131 |
| Wallup | 5.52 | 93 | 0.25 | 76 | 1.40 | 81 | 1.21 | 112 | 1.02 | 94 | 0.31 | 70 | 1.89 | 82 | 1.65 | 89 |
| Wyalkatchem | 6.58 | 111 | 0.29 | 91 | 1.84 | 107 | 0.78 | 72 | 1.12 | 102 | 0.40 | 91 | 2.18 | 95 | 1.80 | 97 |
| Yitpi | 4.30 | 72 | 0.26 | 81 | 1.79 | 104 | 1.02 | 94 | 0.88 | 81 | 0.52 | 119 | 2.20 | 96 | 1.68 | 90 |
| Zen | 5.80 | 97 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Site Mean (t/ha) | 5.95 | | 0.32 | | 1.73 | | 1.08 | | 1.09 | | 0.44 | | 2.29 | | 1.86 | |
| CV (%) | 3.58 | | 6.43 | | 5.08 | | 8.01 | | 3.68 | | 5.89 | | 4.50 | | 6.51 | |
| Probability | <0.001 | | <0.001 | | <0.001 | | <0.001 | | <0.001 | | <0.001 | | <0.001 | | <0.001 | |
| LSD (t/ha) | 0.35 | | 0.04 | | 0.15 | | 0.15 | | 0.07 | | 0.04 | | 0.17 | | 0.21 | |
| Sowing Date | 16/05/2019 | | 02/05/2019 | | 08/05/2019 | | 08/05/2019 | | 14/05/2019 | | 03/05/2019 | | 07/05/2019 | | 07/05/2019 | |
| Trial Comments | Interpret results with caution, some shattering, esp in Cobalt, Kord CLPLUS and Yitpi | | Uniform but severely droughted trial. Interpret results with caution | | Trial highly droughted, interpret results with caution | | Trial highly droughted, interpret results with caution | | Trial highly droughted with mean yield 0.44 t/ha. Interpret results with caution | | | | | | | |

Source: www.nvtonline.com.au

Eyre Peninsula 2019 NVT barley trial yields in t/ha and expressed as a percentage of site mean

| Variety Name | Wharminda | | Darke Peak | | Elliston | | Minnipa | | Streaky Bay | |
|-------------------------|--|-----|---|-----|---|-----|------------|-----|-------------|-----|
| | t/ha | % | t/ha | % | t/ha | % | t/ha | % | t/ha | % |
| Alestar | 0.84 | 71 | 1.01 | 66 | 3.03 | 82 | 1.52 | 76 | 2.58 | 86 |
| Banks | 1.21 | 102 | 1.38 | 91 | 3.69 | 100 | 2.18 | 109 | 3.09 | 104 |
| Bass | 1.25 | 106 | 1.61 | 106 | 3.54 | 96 | 1.90 | 95 | 2.79 | 94 |
| Buff | 1.58 | 133 | 1.69 | 111 | 3.70 | 101 | 1.89 | 94 | 3.00 | 101 |
| Commander | 0.80 | 68 | 1.55 | 102 | 3.45 | 94 | 1.66 | 83 | 2.95 | 99 |
| Compass | 1.71 | 144 | 1.89 | 124 | 4.13 | 112 | 2.27 | 113 | 3.21 | 108 |
| Fathom | 1.59 | 134 | 1.95 | 127 | 3.52 | 96 | 2.20 | 110 | 3.06 | 103 |
| Fleet | 1.41 | 119 | 1.42 | 93 | 3.77 | 103 | 1.84 | 92 | 3.13 | 105 |
| Flinders | 1.19 | 100 | - | - | - | - | - | - | - | - |
| Granger | 1.20 | 101 | 1.12 | 74 | 3.31 | 90 | 1.61 | 81 | 2.62 | 88 |
| Hindmarsh | 1.39 | 117 | 1.65 | 108 | 3.71 | 101 | 2.17 | 108 | 3.12 | 105 |
| Keel | 1.51 | 127 | 1.45 | 95 | 3.39 | 92 | 2.05 | 102 | 3.35 | 112 |
| La Trobe | 1.37 | 115 | 1.65 | 108 | 3.71 | 101 | 2.23 | 111 | 3.19 | 107 |
| Leabrook | 1.61 | 136 | 1.66 | 109 | 3.94 | 107 | 2.36 | 118 | 3.12 | 105 |
| Oxford | 0.47 | 40 | - | - | - | - | - | - | - | - |
| RGT Planet | 0.74 | 62 | 0.97 | 64 | 3.66 | 99 | 1.76 | 88 | 2.79 | 94 |
| Rosalind | 1.25 | 105 | 1.53 | 100 | 4.25 | 116 | 2.41 | 121 | 3.27 | 110 |
| Scope | 0.95 | 80 | 1.08 | 71 | 3.25 | 89 | 1.72 | 86 | 2.67 | 90 |
| Spartacus CL | 1.38 | 116 | 1.70 | 111 | 3.71 | 101 | 2.21 | 110 | 3.11 | 104 |
| Site Mean (t/ha) | 1.19 | | 1.53 | | 3.68 | | 2.00 | | 2.98 | |
| CV (%) | 6.96 | | 9.59 | | 3.58 | | 3.94 | | 4.70 | |
| Probability | <0.001 | | <0.001 | | <0.001 | | <0.001 | | <0.001 | |
| LSD (t/ha) | 0.14 | | 0.25 | | 0.22 | | 0.17 | | 0.22 | |
| Sowing Date | 16/05/2019 | | 16/05/2019 | | 14/05/2019 | | 08/05/2019 | | 07/05/2019 | |
| Trial Comments | Trial affected by some shattering, interpret results with caution, particularly for RGT Planet, Keel, Hindmarsh and Flinders | | Trial affected by some shattering, interpret results with caution, particularly for RGT Planet, Keel, Hindmarsh and Fleet | | Data reanalysed 14/01/20 using additional plot variation data | | | | | |

Source: www.nvtonline.com.au