

SEED GUIDE FOR 2020 SEASON

SA Northern



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Cox Rural Seed Variety Summary 2020

NOTE: ALL THE TABLES ARE FROM THE NVT TRIAL LONG TERM RESULTS – the results are displayed as a percentage of the mean yield of the trial sites ie. 117 indicates the variety yielded 17% higher than the mean yield of the site.

With harvest nearing completion or completed on many properties, it's time to think about seed for the 2020 growing season.

Below is the latest information from GRDC on existing and new varieties which may be suited to your environment. Please contact your nearest Cox Rural branch for more information on listed varieties or a line not listed that you may be interested in.

WHEAT							
		Year	2014	2015	2016	2017	2018
		Mean yield t/ha	3.97	2.88	5.65	3.32	2.67
Variety	Classification	No. Trials	4	4	3	3	2
Beckom	AH	16	106	104	108	105	106
Catapult	AH	2					108
Cutlass	APW	16	107	115	98	110	110
Trojan	APW	16	106	100	110	103	102
Rockstar	AH	2					110
Scepter	AH	12		113	107	112	116
Vixen	AH	5				114	117

Results gained from trial work completed at Booleroo, Mintaro, Spalding and Turretfield SA.

Beckom: Mid-season maturing wheat suited to medium to high rainfall regions. Resistant to CCN and moderate resistance to Stripe rust, can be susceptible to Leaf rust and Septoria. In a tight finishing season can be prone to small grain size.

Catapult: Able to be sown early with an option for dry sowing and is being viewed as a longer season Scepter. Closely related to Scepter and is only wheat variety of this maturity with CCN resistance, YLS resistance and AH quality.

Cutlass: This is a newly released variety which is photoperiod sensitive, therefore allowing for more versatility to the sowing window. Flowering later allows growers to reduce the risk of frosting events. Yielding potential is somewhat lower than that of Sceptre and Vixen and only has APW quality

Rockstar: This is a mid to late flowering type similar to Trojan with an AH classification in the southern (Vic, SA) growing zones. Bred as an alternative to cultivars such as Trojan, Cutlass, Catapult, Yitpi and Scepter. Found to be lower yielding than Scepter and Vixen.

Scepter: Still arguably the best suited cultivar for our growing region, as highlighted in the above results.

Vixen: A genetic advancement on Sceptre, boasting a slight advancement to yielding potential, achieved via increased resistance to seed loss due to hot winds late in the growing season. This is a mid to early flowering wheat, capable of AH grades. Offers MRMS to Stripe Rust, Stem Rust and Yellow Leaf Spot. This variety is however susceptible to CCN.





BARLEY

	Year	2014	2015	2016	2017	2018
	Mean yield t/ha	4.95	3.34	6.68	4.91	2.53
Variety	No. Trials	3	3	3	3	2
Compass	14	110	117	94	106	126
Fathom (Feed)	14	105	110	103	107	123
RGT Planet	8			121	109	101
Rosalind (Feed)	14	112	119	108	109	118
Spartacus CL	14	109	115	95	104	119

Results gained from trial work completed at Crystal Brook, Salters Springs and Turretfield SA

Compass: Compass is still the industry standard for malt varieties, being one of the highest yielders in this category. In comparison to the high yielding feed varieties of Planet and Rosalind over the past couple of years it doesn't look as impressive, however has been the consistent performer long term.

Fathom: An early maturing and high yielding feed variety. Developed from wild barley types, Fathom has increased tolerance to stress and has better water use efficiency than other varieties. Has good early competition and has good levels of resistance to CCN, Powdery Mildew and Spot Form Net Blotch, with susceptibility to Net Form Net Blotch, Scald and Leaf Rust.

RGT Planet: Planet is a mid-season spring barley, which has recently been accredited for malt. Good disease rating, with resistance to Mildew, Rhinosporem, Net Blotch and Brown Rust. Planet was found to underperform throughout our region in 2019, with dry conditions favouring older barely varieties more so.

Rosalind: This is an exceptionally high yielding, mid-season feed barley. An ideal variety for growers looking for sowing date flexibility and a solid disease resistance package, including good Leaf Rust, Powdery Mildew and Net Form of Net Blotch resistance.

Spartacus CL: The industry standard for Clearfield-tolerant barley. This cultivar is a high yielding, early flowering, malt accredited barley with good straw strength. Throughout the 2019 growing season this cultivar performed exceptionally well, with limited yield penalties observed as a result of its Clearfield tolerance.





CANOLA						
	Year	2014	2015	2016	2017	2018
	Mean yield t/ha	2.35	1.76	2.8	2.34	1.34
Variety	No. Trials	3	3	3	3	1
CONVENTIONAL						
Nuseed Diamond	4	109	107	110	102	-
Nuseed Quartz	2	-	-	115	115	-
CLEARFIELD						
Banker CL	12	107	111	118	104	101
Pioneer 44Y90	10	-	114	117	108	109
Pioneer 45Y91	8	105	-	112	103	-
Pioneer 45Y93	3	-	-	-	109	-
TRIAZINE TOLERANT						
Hyola 559TT	13	106	110	104	108	115
HyTTec Trophy	4	-	-	-	116	119
InVigor T 4510	7	-	-	118	112	113
Pioneer 44T02 TT	7	-	114	108	107	113
Pioneer 45T03 TT	1	-	-	-	-	97

Results gained from trial work completed at Riverton, Spalding and Turretfield SA.

Nuseed Diamond: An early season hybrid conventional canola which adapts well to varying season lengths and has good early vigour. Has good blackleg resistance and reasonable oil %.

Nuseed Quartz: A mid-season hybrid conventional canola. Bred to replace AV Garnet, Nuseed Quartz sets a new bar for mid-season hybrids.

Pioneer 44Y90: An early-mid maturity with IMI tolerance, exceptional adaptability and yield for maturity. Exceptional early growth aids weed control and competition due to early canopy closure. 44Y90 will be a dominant variety choice in the Mid North area

Pioneer 45Y93: This early flowering mid maturity hybrid exhibits extremely high yield potential. The early flowering mid maturity makes this hybrid a perfect choice for high yielding environments where heat during flowering is common.

Hyola 559TT: Hyola 559TT has shown to be one of the most adapted and popular triazine tolerant hybrids across the 1.5t/ha to 2.5t/ha environments around Southern Australia. It has shown multi-seasonal adaptation with a very high oil content.

HyTTec Trophy: An early-mid maturing canola which has shown exceptional yield performance against both current hybrid and open-pollinated TT varieties.

InVigor T4510: Outperforming other Triazine Tolerant hybrids, in both favourable and tough conditions. Good alternative to Bonito, Stingray, 44T02. Exceptional vigour, with an early-mid maturity, ideal in a medium rainfall situation.

Pioneer 44T02 TT: A solid performing TT variety with a price reduction on seed for 2020 due to excess seed stocks.

Pioneer 45T03 TT: A new mid-maturing triazine-tolerant hybrid. Medium plant height. Suited to medium-high rainfall areas. Blackleg resistance rating of R-MR (resistance group ABD).





FABA BEANS

	Year	2014	2015	2016	2017	2018
	Mean yield t/ha	2.57	2.02	5.09	3.2	1.69
Variety	No. Trials	3	3	3	3	2
PBA Amberley	17	91	97	105	105	108
PBA Bendoc	9	-	-	94	101	104
PBA Marne	19	101	104	103	93	99
PBA Zahra	19	105	101	102	107	102

Results gained from trial work completed at Freeling, Laura, Pinery, Riverton, Saddleworth, Tarlee and Turretfield SA.

PBA Amberley: Suited to high rainfall zones, Amberley has improved disease resistance rated as MR-R for Ascochyta and MR for Chocolate spot. Similar seed size to Samira and will be available for 2020 season.

PBA Bendoc: This cultivar can tolerate **some** group B chemistry, increasing the ability to control various broad leaf weeds in crop, or sow into soil holding group B residues. Bendoc is also considered resistant to Ascochyta Blight, producing small to medium sized seeds suited to Middle East market.

PBA Marne: An early flowering variety similar to Samira and suited to lower rainfall areas. MR-R to Ascochyta but S to Chocolate spot

PBA Zahra: This is a large seeded variety which has been adopted widely across high rainfall regions of SA. Whilst Zahra holds resistance genes against the main strain of Ascochyta Blight, it is considered moderately susceptible to the new strain (pathotype 2), which has been observed in the Mid-North of SA. This is a vigorous plant type with good standing ability and mid maturing.

FIELD PEAS

	Year	2014	2015	2016	2017	2018
	Mean yield t/ha	1.93	1.57	3.59	2.12	1.67
Variety	No. Trials	5	4	5	5	3
PBA Butler	22	95	102	108	102	102
PBA Pearl	22	103	106	102	103	103
PBA Wharton	22	107	101	93	101	100

Results gained from trial work completed at Balaklava, Kindsford, Laura, Riverton and Snowtown SA.

Butler and Pearl continue to exhibit high yields, now being considered the industry standards.

PBA Pearl: Pearl is a semi-leafless and semi dwarf variety with an erect growth habit. This cultivar has good early vigour with flowering occurring early to mid-season. This is considered a low risk option for those who experience Bacterial Blight when compared to Kaska.

PBA Butler: Similar seed and plant features to Kaska with high levels of Bacterial Blight Resistance (same as PBA Oura). Butler exhibits vigorous plant growth, high yielding capacity and broad adaptation. It is considered a semi-leafless, semi-dwarf cultivar with a mid to late flowering window and early maturity. This cultivar is considered resistant to pod shatter with superior grain quality marketable as a 'Kaska type'.

PBA Wharton: Early-mid variety suiting it for topping and black spot management. Similar characteristics to Kaska (lodging & shatter resistance) and has improved powdery mildew and virus resistances.





LENTILS

	Year	2014	2015	2016	2017	2018
	Mean yield t/ha	1.22	1.09	2.29	2.14	3.23
Variety	No. Trials	1	1	1	1	1
PBA Hallmark XT	5	1	87	90	106	95
PBA Highland XT	3	-	-	88	94	95
PBA Jumbo 2	5	106	103	103	103	108

Results gained from trial work completed at Kingsford, Laura, Mallala, Riverton and Snowtown SA.

Hallmark XT: A high yielding, **mid-sized red** variety with improved yield over Herald and Hurricane. Improve tolerance to IMI herbicides and flumetsulam, reduced sensitivity to SU herbicide carryover although seems more sensitive to Grp C products. Rated as high resistance to botrytis and MR-MS to Ascochyta

Highland XT: This is an early to mid-maturing, **medium sized red**, herbicide-tolerant red lentil suited to most Southern Australian growing regions. Moderate resistance to Ascochyta Blight and Botrytis Grey Mould.

Jumbo 2: Highest yielding **large red** seeded lentil variety available for Australia, outperforming all current varieties in medium-rainfall regions. It also has combined resistance to the major diseases for lentils, Ascochyta Blight and Botrytis Grey Mould.

LUPINS

	Year	2014	2015	2016	2017	2018
	Mean yield t/ha	1.58	1.22	2.83	1.98	1.49
Variety	No. Trials	1	1	1	1	1
Coyote	4	-	115	120	122	105
PBA Bateman	3	-	113	115	-	110

Results gained from trial work completed at Spalding SA.

Coyote: A higher yielding alternative to Juriein and Mandelup, being widely grown across WA already.

PBA Bateman: A narrow leaf lupin originating from the Eastern states. This is an early flowering variety with good resistance to pod shattering. Bateman has been considered the benchmark for yield in high rainfall zones.

Oats - 5yr average

Winteroo: Although not the highest grain yielding oat, Winteroo still performs well in the hay space producing the highest 5-year average yielding variety in all rainfall zones

Yallara – This variety sits a very close second behind Winteroo in both hay and grain yielding potential

Vetch – 5yr average

Timok: The highest yielding grain (15% above BF and 10% above Rasina) and dry matter (4% above Morava and 11% above Rasina) variety. Highly rust resistant, mod susceptible to ascochyta and susceptible to botrytis. Soft seeded.

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