

SEED GUIDE FOR 2020 SEASON

SA Southern



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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.

Main Season Wheat

Results gained from trial work completed in the Wimmera and South East

Numerous wheat varieties available, with the top 10-15 varieties yielding long term within a half a tonne of each other over numerous years and rainfall environments. Scepter and Trojan are the dominant variety being grown in the Mid-South East and West Wimmera. Chief CL (APW) has been the imi-tolerant variety of choice in the upper SE, however Razor CL Plus and Sheriff CL Plus have performed considerably well over the past couple of years. Scepter, Vixen, **Cosmick**; and Arrow are the Hard varieties performing best in the area.

Scepter; Still arguably the best suited cultivar for the Upper South East and Wimmera and although there are some new varieties hot on its heels, it is hard to fault this proven performer.

Vixen (New); Probably a touch early for this area with the ideal sowing window being mid to late May but it has yielded so well in trials it is hard to leave out. An AH quality wheat with stable grain quality in tough years and offers MRMS to Stripe Rust, Stem Rust and Yellow Leaf Spot. This variety is however susceptible to CCN.

Cosmick; Is an exceptionally stable high yielding AH wheat for SA & VIC bought out in 2017. Early to mid-season maturity with comparable height to Gladius and good yellow leaf spot resistance and moderate stripe and stem rust resistance.

Trojan; Has become a proven performer over a wide range of growing districts. Has an excellent grain package with MR to leaf rust and stripe rust, MR-MS to stem rust and MR-MS to black point. Moderately tolerant to boron toxicity APW quality classification in the southern zone (SA and Vic) in some seasons

Main Season Wheat							
		year	2014	2015	2016	2017	2018
		Mean Yield	2.68 t/ha	2.39 t/ha	6.30 t/ha	4.71 t/ha	3.36 t/ha
Variety	Classification	Trials	4	5	7	6	3
Vixen	AH	15			112	113	116
Scepter	AH	21		123	106	113	112
RockStar	AH	2					112
Catapult	AH	3					111
LRPB Trojan	APW	25	110	107	109	105	107
Beckom	AH	25	110	111	107	106	108
Cosmick	AH	25	104	105	105	102	105
Mace	AH	25	108	111	99	107	103
LRPB Phantom	AH	25	95	91	98	94	97
Wallup	AH	24	94	93	96	97	94

Results gained from trial work completed in the Wimmera and South East

Long Season Wheat

For those that like to push the yield boundaries or get wheat in opportunistically for grazing, I've included a long season wheat section. All the varieties above are winter wheats, which need a vernalisation (cold period) before they move into stem elongation, so they can be sown as early as you wish. Just keep in mind that most of these varieties are very late to flower and need good rainfall and a cool finish to recognise maximum yield potential, which may not be suitable North of Naracoorte in some seasons

RGT Accroc: is a bearded, medium-long growing season winter wheat with potential for high yields in the medium and high rainfall zone. Its combination of earlier maturity, high yields and good grain quality has made it desirable for growers in this region. The variety has a good disease resistance profile with very good resistance to stripe rust and good resistance to wheat stroke mosaic virus. With short stiff straw, harvest quality is good producing large bold grain with a high thousand grain weight.

Manning: The benchmark winter wheat over the past 5 years with solid yield data over several trials. Maximises early moisture availability, with an ability to hang-on at the end of the season. White grained, which ideally suits growers who supply the dairy industry. Dual Purpose (able to cope well with grazing until GS30), with the flexibility of hay due to awnless heads. BYDV, stem rust and leaf rust Resistant with an MR rating on septoria.

SF Adagio: is a bearded, medium-long growing season winter wheat developed for southern Europe, with a potential for high yields and good protein in the medium and high rainfall zone. Good BYDV resistance with excellent leaf and stripe rust resistance. Stem rust will need to be managed in prone areas.

DS Bennett: is a high yielding awnless winter wheat with an ASW classification in VIC, southern NSW and SA. Is ideal for graze and grain production with the ideal sowing time from mid-March through to May. Good disease resistance package.

Long Season Wheat							
	year	2013	2014	2015	2016	2017	2018
	Mean Yield	5.05 t/ha	5.77 t/ha	3.76 t/ha	7.45 t/ha	5.05 t/ha	5.29 t/ha
Variety	Trials	2	2	2	2	1	2
LRPB Beaufort	7			119	126	108	109
RGT Accroc	7			114	129	123	116
RGT Zanzibar	5				120	112	106
Manning	11	119	113	105	124	107	113
DS Bennett	5				123	116	112
SQP Revenue	11	123	109	107	123	106	110
RGT Calabro	7			107	124	113	113
SF Adagio	7			111	117	112	110
LRPB Trojan	9		104	129	111	102	99
SF Scenario	4			95	109		
SF Ovalo	5			88	113	104	

Results gained from trial work completed in the Wimmera and South East

Barley

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.

Spartacus CL; is the industry standard for imi-tolerant barley.

RGT Planet; is a high yielding spring barley introduced into Australia in 2017 with huge top end yield. It has a strong agronomic package that combined with its yield potential makes it a great economic option for Australian barley growers.

Westminster; Fully Malt accredited with Barley Australia. High yielding potential malt barley ideally suited to the high rainfall southern zone. Excellent all-round disease resistance, with superior scald resistance compared to Received malt accreditation early 2019. Its downfalls are a susceptibility to net form net blotch in favorable conditions (easily enough using a robust fungicide strategy) and a tendency to high screenings in tight finishes.

Rosalind; provides growers with 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 Net Blotch resistance.

Bottler; is a new high yielding, mid to long season malt barley. It is a high fermentability malting type barley with medium height straw. Bottler has shown adaptability to a range of HRZ and MRZ environments and has proven high yield potential. It exhibits resistance to Powdery Mildew and Net Form of Net Blotch

Leabrook (WI4896) is a new mid-maturing, medium-tall barley variety, bred by the University of Adelaide, with yield and agronomic data now available from the National Variety Trials website. It was bred from the Compass line, so has a similar plant type and disease resistance with generally higher yield, higher plump grain percentage and lower screening percentage. Is currently under malt accreditation and should be approved by 2022.

Barley						
	year	2014	2015	2016	2017	2018
	Mean Yield	2.41 t/ha	1.67 t/ha	6.57 t/ha	5.19 t/ha	4.44 t/ha
Variety	Trials	6	5	5	6	5
RGT Planet	16			120	112	109
Leabrook	27		136	97	106	108
Rosalind	27	116	133	106	108	107
Fathom	27	118	129	102	101	104
Compass	27	119	147	91	100	101
Spartacus CL	27	111	137	93	101	102
Bottler	16			109	104	102
Oxford	27	82	59	108	102	99
Westminster	20	85	61	100	95	94
Gairdner	25	99	88	89	90	90

Results gained from trial work completed in SE SA and Wimmera Vic.

Canola – Clearfield

Saintly CL is a new Clearfield hybrid Canola previously known as HSHC1503CL from Heritage Seeds. Saintly CL is a mid to early-mid maturity option expected to be a direct competitor to Hyola 575CL and 44Y90 (CL). Saintly CL offers an exciting combination of outstanding yield potential, high oil percentage and reliable blackleg package.

Banker CL is a new Clearfield hybrid from Heritage Seeds previously known as HSHC134CL. It is a true mid maturity option to complement our evolving commercial portfolio which currently includes Carbine and Archer. Banker CL is a direct competitor to Hyola 575CL, 45Y88 (CL) and 45Y86 (CL). Banker CL offers an exciting combination of outstanding yield potential, high oil percentage and reliable blackleg package.

45Y93 CL This early flowering mid maturity Y Series® hybrid exhibits extremely high yield potential to set a new benchmark in this segment. The early flowering mid maturity makes this hybrid a perfect choice for high yielding environments with the tendency to see heat during flowering.

45Y93 replaces 45Y91, is recommended for plantings with a cooler, longer finish

43Y92 CL The earliest maturity Y Series® hybrid with Clearfield® technology displays exceptional adaptability and yield for maturity. This hybrid demonstrates robust yields under stress induced environments, assisting in risk management in low to medium rainfall environments. **shorter season, lower rainfall areas.**

44Y90 CL A game changing Y Series® hybrid offering unmatched performance and consistency in the early-mid maturity Clearfield® segment, demonstrating exceptional adaptability and yield for maturity. Exceptional early growth helps deliver effective weed control and reduced seed set results through superior crop competition and early canopy closure.

Mid Season CL Canola						
	Year	2014	2015	2016	2017	2018
	Mean Yield	1.19 t/ha	0.89 t/ha	3.28 t/ha	3.14 t/ha	2.23 t/ha
Variety	Trials	5	4	3	4	2
Pioneer 45Y93 CL	5				110	106
Pioneer 44Y90 (CL)	13		115	115	108	106
Pioneer 43Y92 (CL)	8			113	104	105
Saintly CL	12		123	114	103	104
Banker CL	13	109	108	116	106	103
Pioneer 45Y91 (CL)	10	107		111	104	102

Combined NVT long terms results of SE SA and Wimmera Vic

Canola – Mid Season Triazine Tolerant

HyTtec Trophy: An early-mid maturing canola which has shown exceptional yield performance against both current hybrid and open-pollinated TT varieties. Although HyTtec Trident is an early variety, I've added it above due to its excellent top end yield.

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.

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 to provide growers with a complete agronomic package.

SF Turbine TT and Ignite TT: The first in a new series of TT hybrids to be introduced by Seed Force with a BF resistance group. SF Turbine TT is a mid to early maturity and has excellent early vigour and gets up and establishes quickly for maximum weed competition. SF Ignite is later maturity, with better top end yield to suit the higher rainfall areas.

Mid Season Triazine Tolerant Canola						
	year	2014	2015	2016	2017	2018
	Mean Yield	1.19 t/ha	0.89 t/ha	3.30 t/ha	3.15 t/ha	2.22 t/ha
Variety	Trials	5	4	3	4	2
HyTtec Trident	2					119
HyTtec Trophy	6				113	113
InVigor T 4510	9			116	111	110
SF Ignite TT	9			119	111	105
SF Turbine TT	10		115	112	105	104
Hyola 559TT	18	110	117	102	104	107
Pioneer 45T03 TT	2					100
ATR Bonito	17	96	94	100	100	98

Results gained from trial work completed in Southeast, SA and Wimmera, Vic.

Faba Beans

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

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.

PBA Amberley (New) is a mid-season flowering faba bean that has high yield potential in the higher rainfall areas. It has a greater level of resistance to chocolate spot than all current varieties and is also resistant to both pathotypes 1 and 2 of ascochyta blight. This improved resistance offers the potential to reduce the risk and cost of faba bean production in high rainfall areas where foliar fungal diseases are a major constraint. Seed is light brown and medium in size and suitable for co-mingling with the current faba bean varieties for export to the major food markets in the Middle East.

PBA Samira has become the mainstay of bean growers in the South East and Western Victoria. Has resistance to both types of ascochyta with a medium seed size, good colour and stable yield through various seasons and areas. Seed quality also holds up extremely well under adverse conditions as seen in 2016 and 2017 with large amounts of rainfall at harvest.

Faba Beans						
	Year	2014	2015	2016	2017	2018
	Mean Yield	1.94 t/ha	1.29 t/ha	4.20 t/ha	3.80 t/ha	2.80 t/ha
Variety	Trials	10	6	9	8	8
PBA Zahra	41	103	105	103	103	102
PBA Bendoc	25			94	104	104
PBA Amberley	35	102	102	106	99	98
PBA Samira	41	102	103	103	101	100
Fiesta VF	32	103	103	95	98	100

Results gained from trial work completed at Bool Lagoon, SA.

Lupins

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

Lupins						
	Year	2014	2015	2016	2017	2018
	Mean Yield	1.05 t/ha	0.65 t/ha	3.12 t/ha	1.94 t/ha	1.42 t/ha
Variety	Trials	2	1	3	2	1
PBA Bateman	5		111	109		140
Coyote	7		114	109	121	134
PBA Jurien	8	98	104	107	103	
PBA Barlock	8	99	103	105	101	
Mandelup	8	98	106	97	109	
Wonga	9	94	86	94	99	115

Results gained from trial work completed at SE SA.

Oats

Most oat varieties are still consistent when looking at the trials, although the newer lines tend to have slightly better rust resistance and grain quality when looking at B-Glucan content, grout, lignin content and screenings.

Kowari is a dwarf milling oat variety bred out of the Matika line by SARDI and released in 2017. Kowari has improved B-glucan content (5.2% (DM basis) compared to 4.4% for Mitika), lower screenings than all other varieties, good 1000 grain weight, high protein and groat percentage and a competitive grain yield. Low hull lignin also means it is one of the better choices for use as a stockfeed, with increased weight gain over high lignin varieties.

Bannister is a tall dwarf oat with lineage from Echidna. Very similar to Williams in its profiles, with very good yields being recorded through the South East and Western Vic over the past 4-5 years

Williams released in 2013 and bred out of WA, it is a mid to tall dual-purpose hay and milling grain oat with a high yield potential, good standability and great grain quality. It also has the best disease profile over any other milling varieties.

Bilby is available for the 2020 growing season and looks to have a very similar profile to **Kowari**, with a slightly higher yield potential in the higher rainfall areas. Has not been approved with milling classification in SA yet, but has classification in WA and it should only be a matter of time.

Oats						
	Year	2014	2015	2016	2017	2018
	Mean Yiel	2.47 t/ha	2.41 t/ha	4.80 t/ha	5.22 t/ha	3.08 t/ha
Variety	Trials	2	3	3	2	3
Bannister	13	104	104	123	115	111
Potoroo	4	103	103	117		114
Wanderin	6	104	110	104		108
Williams	13	99	98	113	113	104
Echidna	10	95	97	113	102	117
Kowari	13	108	106	112	104	100
Mitika	13	104	104	106	99	100