

A Hay EPR has been added to the LongReach seed licence  
for the 2024 season to support Awnless Wheat variety  
development

**2024**

**AgroPack**



Dual Purpose Wheat



**Awnless APW Slow Spring Wheat**



# LRPB Bale – Slow Spring Awnless Wheat powered by CSIRO



Dr Greg Rebetzke, CSIRO



- LRPB Bale was developed from pre-breeding germplasm produced by CSIRO and distributed by Dr Greg Rebetzke as Sct\_51-3
- CSIRO aimed to combine novel traits in a Scout background to deliver growers real options for managing frost risk zones by ensuring different harvest strategies could be implemented in Spring as required
- LongReach trialled LRPB Bale as LPB18-7946
- LRPB Bale is awnless and has a Slow Spring maturity making it flexible for hay or grain production
- LRPB Bale has a novel dwarfing gene Rht18 and long coleoptile to cope with variability at emergence

Commercial strip of LRPB Bale Hart Field sown on 27th April (20th October 2020)



# LRPB Bale - Evaluation and Development

Dual purpose wheats need adequate grain yield and quality, suitable hay yield and quality and to be awnless to be accepted by many hay markets.

A number of groups have taken an interest in testing this novel CSIRO Awnless Germplasm

- LongReach has concentrated on the suitability of the variety for grain quality and disease screening for commercialisation;
  - It has been widely sown in Main Season LongReach trials across SA/Vic since 2018 as well as at targeted Awnless trials and a LongReach time of seeding studies.
  - The objective has been to generate grain samples to quality test LRPB Bale at existing breeding sites with other groups having a better read on the yield performance and varietal traits when sown early.
  - **LRPB Bale has a Southern Zone (SA/Vic) APW classification for the 2021/22 harvest.**
- The Mid North High Rainfall Zone research effort led by Agrilink's Mick Faulkner has played a leading role in identifying the most promising selections for dual purpose Hay/Grain development from these novel Awnless wheats since 2017.
- SARDI and Hart Field Site groups have included the lines in time of seeding and biomass studies in 2020-21.
- LRPB Bale was entered NVT Early Break trials in SA and Vic in 2021 and Main Season NVT trials in Mid North SA.



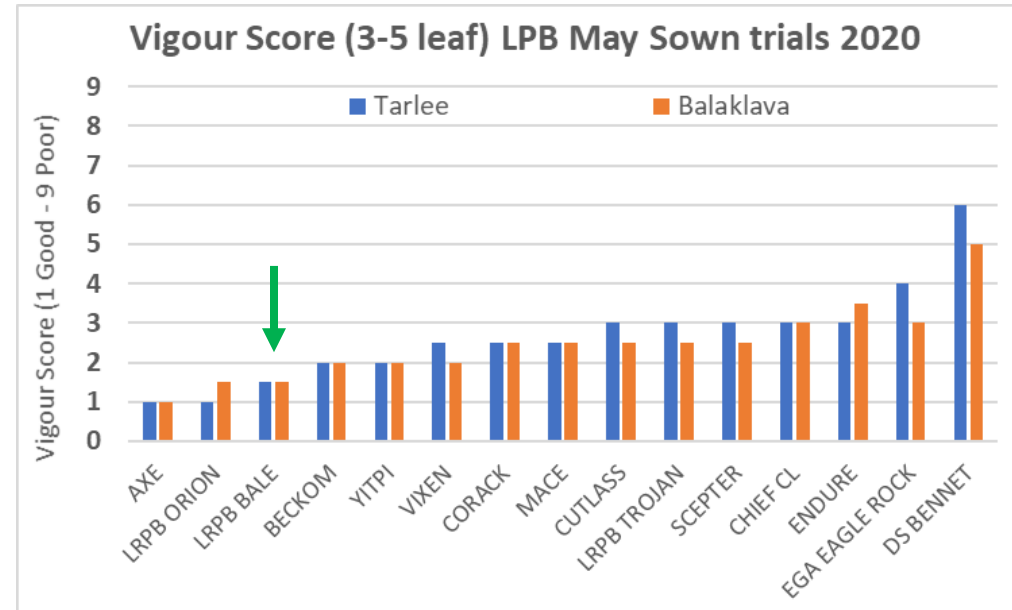
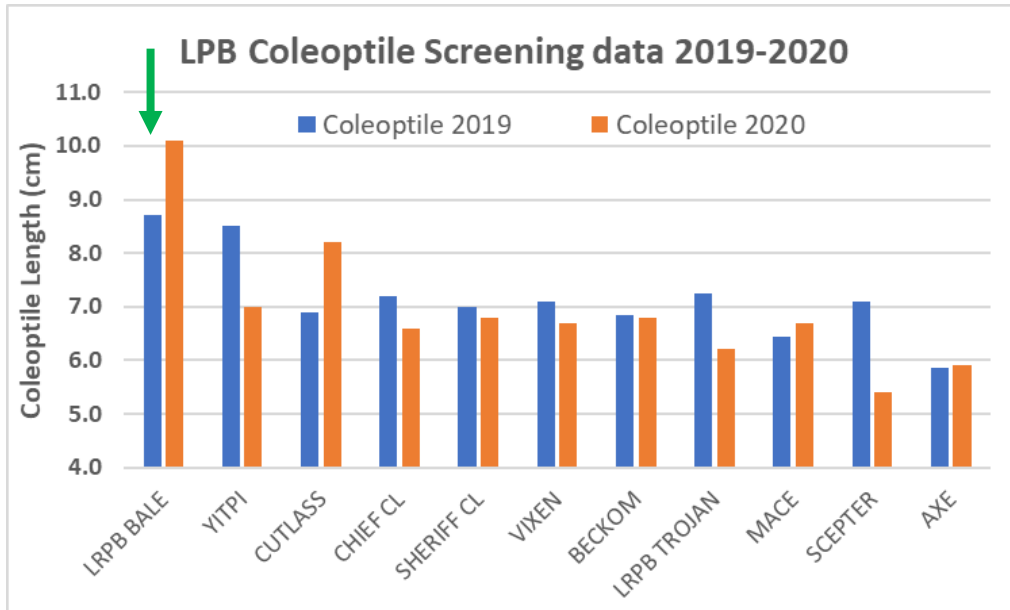
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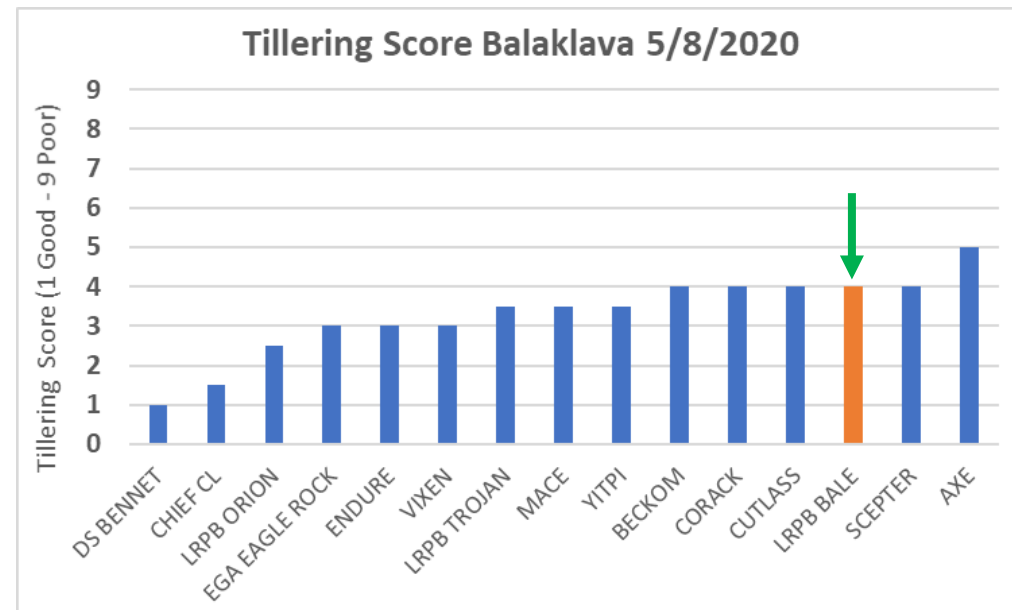


# LRPB Bale - Establishment

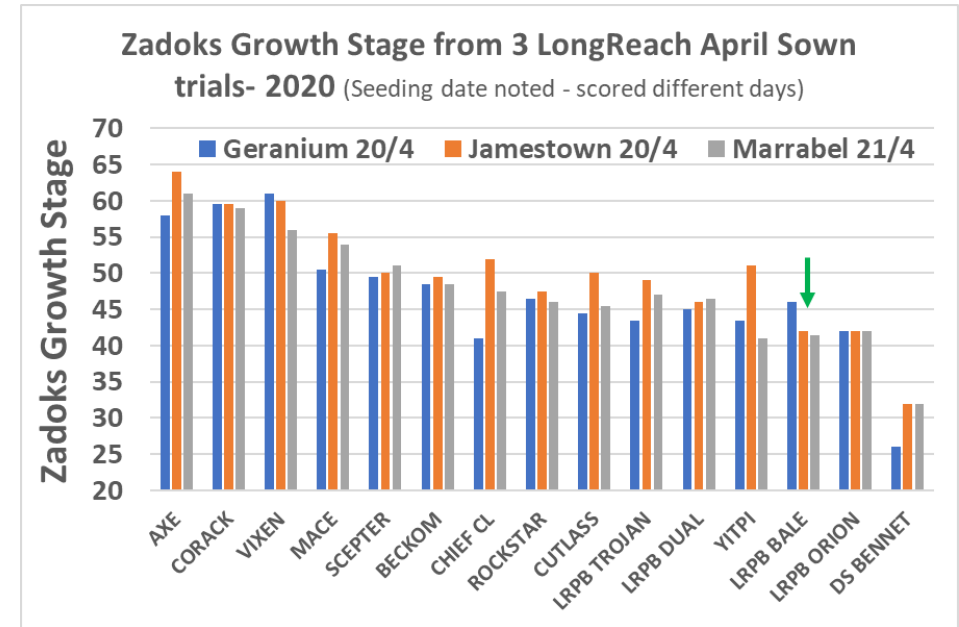
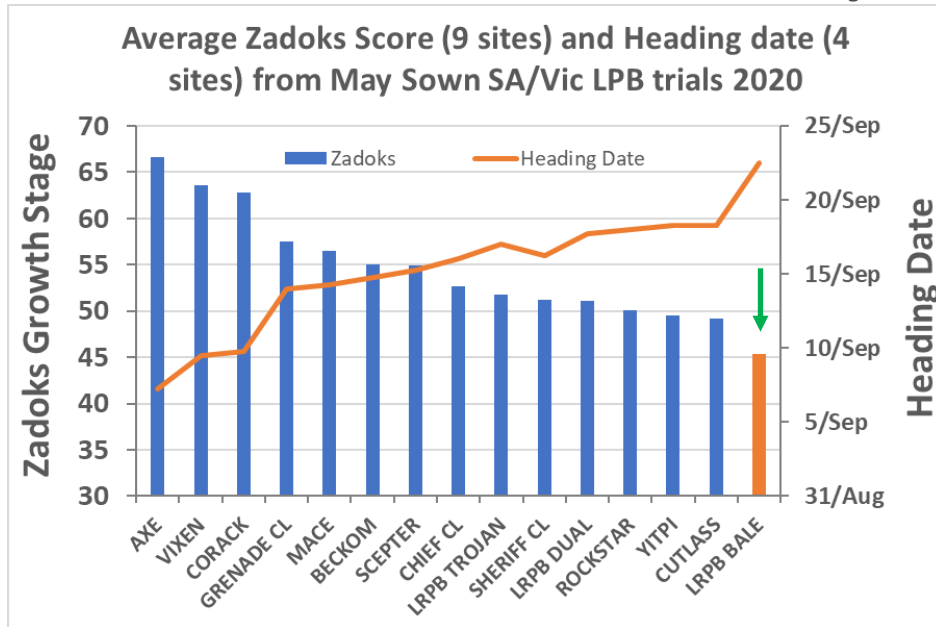


## Comments LRPB Bale

- Has a longer coleoptile than currently grown varieties which may prove useful at establishment when moisture is at depth
- Good early vigour then steady builds ground cover which is typical of slower varieties and upper canopy green leaf can persist later in spring longer than with main season varieties
- Has average tillering and erect growth habit with mid-long leaves

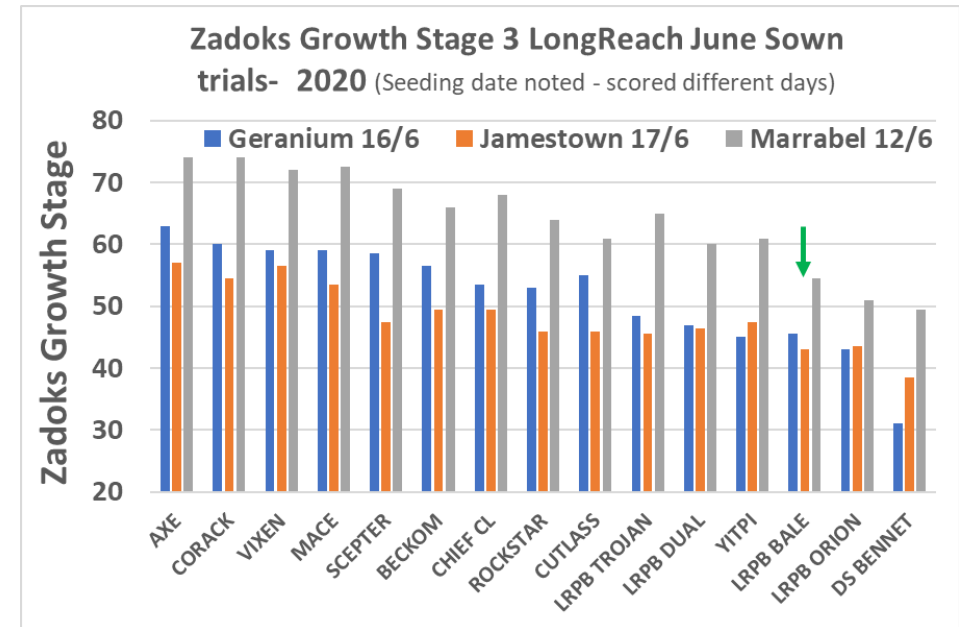


# LRPB Bale - Maturity



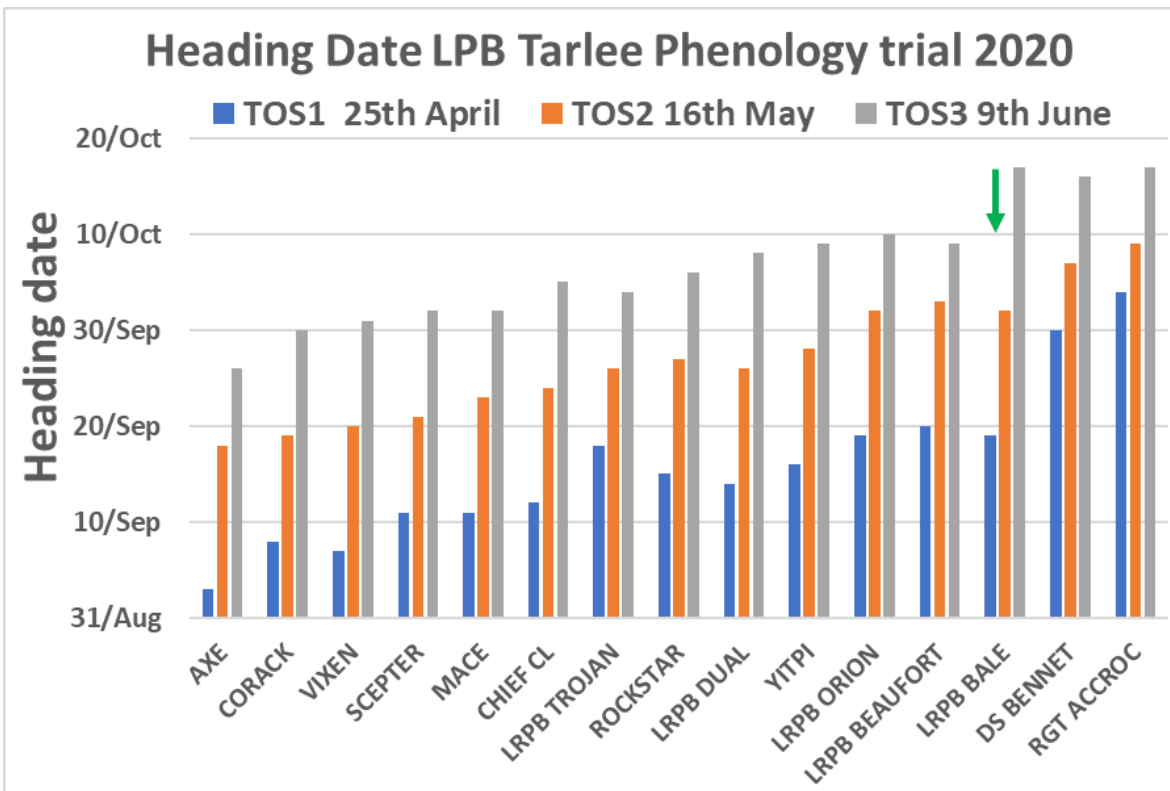
Comments LRPB Bale

- **Slow Spring wheat 3-7 days later than Yitpi** that suits main season planting in HRF areas and mid/late April sowing in LRF/MRF areas when early seeding opportunities arise
- **Importantly the maturity triggers include reasonable strength photoperiod genes** that make LRPB Bale less temperature responsive and deliver a more consistent heading holds between seasons





# LRPB Bale – Maturity compared to LRPB Dual

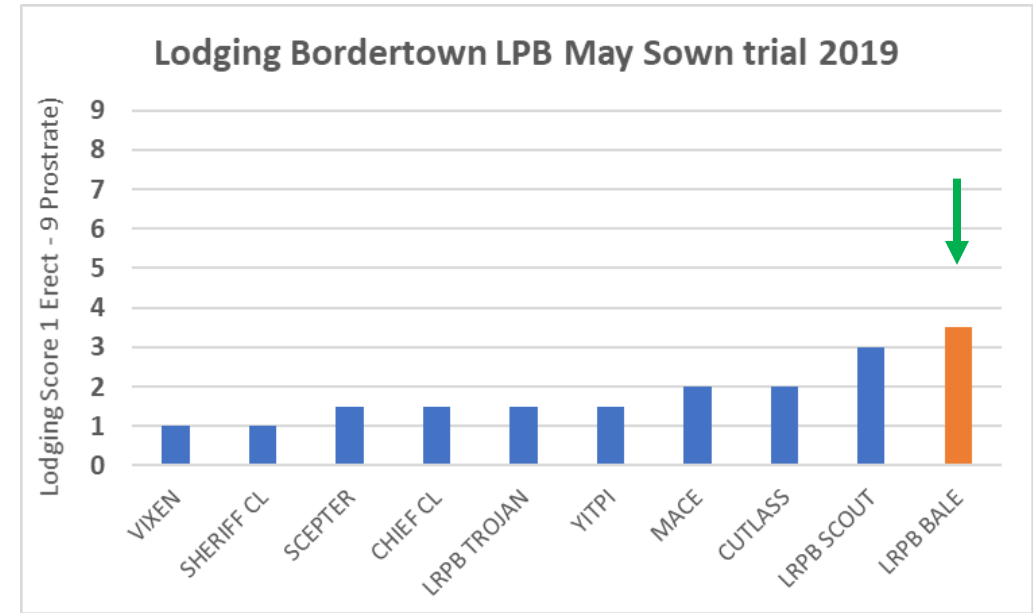
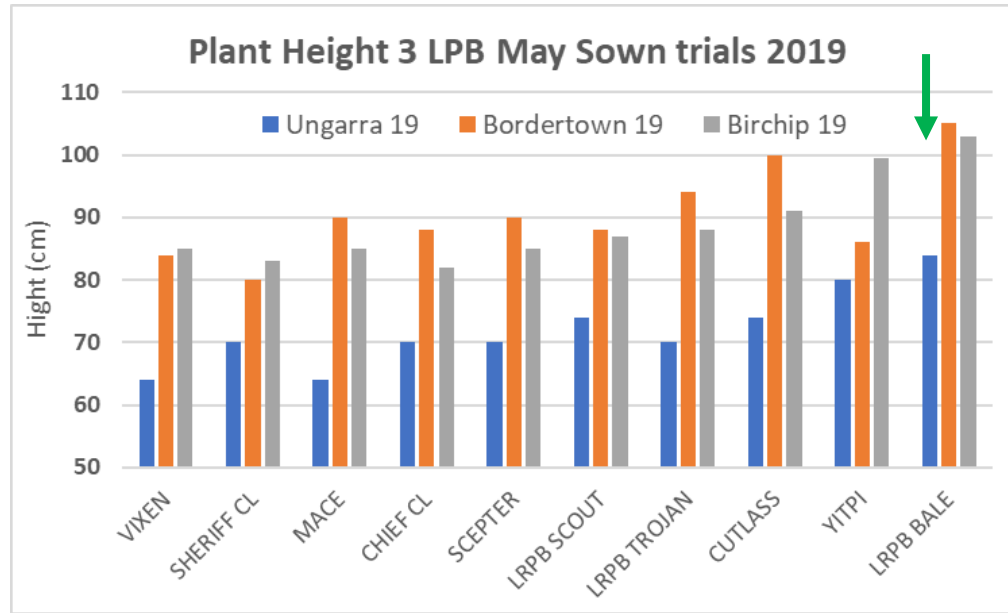


## Comments LRPB Bale

- Compared to other varieties in 2020 LongReach phenology trials:
  - 8 to 14 days later than Mid Spring varieties like Scepter
  - 3-10 days later than Mid-Slow Spring wheat Trojan, 3-7 days later than Yitpi and 5-9 days later than LRPB Dual
  - Slightly later than Orion but 5-10 days Quicker than Very Slow varieties like DS Bennet
- LRPB Bale remains late when June sown so would be less flexible dry sown if the break is late
- **LRPB Bale is very different to most widely grown varieties and provides good diversity for seasonal risk**



# LRPB Bale - Agronomy



## Comments LRPB Bale

- Steady early growth typical of later developing varieties with slower build of ground cover that persists longer in spring
- Tall height controlled by a unique dwarfing gene Rht18 which maintains good height even in lower production years but may need managing in high biomass situations
- Shown minor lodging in windy situation when bulk is high reflecting its taller height but stem strength has been generally sound and N strategies needs to build growth steadily

## LRPB Bale Bordertown 2020

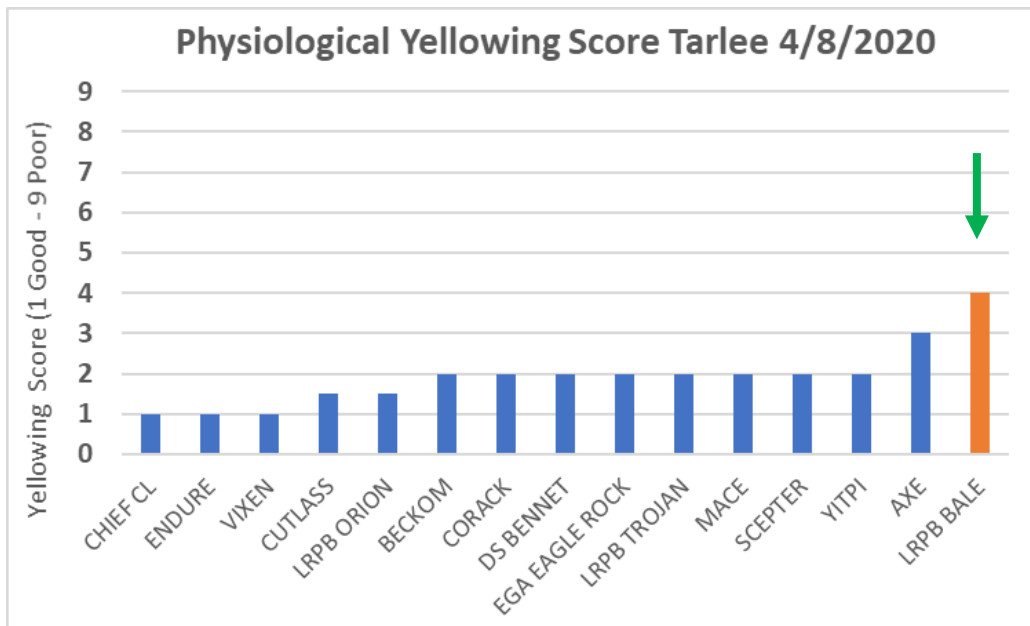




# LRPB Bale - Physiological Yellowing



Dual Purpose Wheat



## Comments LRPB Bale

- Has regularly shown **Physiological yellowing and leaf tip necrosis** in colder winter period which is varietal not disease related
- Like Scout it is very susceptible to **Yellow Spot** so both types of yellowing can occur and LRPB Bale is not suited to wheat on wheat paddocks
- Later in Spring the upper canopy has shown it can hold good leaf greenness but shows some lower leaf necrosis typical of Scout



# LRPB Bale – Agronomy and Hay studies



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## LRPB Bale agronomy studies

- The **Mid North High Rainfall Zone** research effort led by **Agrilink's Mick Faulkner** has identified the most promising selections for dual purpose Hay/Grain development from these novel Awnless wheats since 2017.
- This has included agronomy studies to identify management required on farm for grain and hay production with **Agrilink** being contracted by **AgriFutures Export Fodder Program (PRJ-011946)** to assess the yield and quality of dual-purpose wheat varieties (including LRPB Bale) for suitability to the export fodder industry.
- **LongReach** acknowledges **Agrilink** and **AgriFutures Export Fodder Program's** contribution to the assessment of these varieties.



# LRPB Bale – Maturity and Hay



Maturity Giles Corner 2019 Sown May 15	
Variety	GS 65 date
Kingbale oats	4 Oct
Mulgara oats	29 Sept
Scepter wheat	26 Sept
Orion wheat	1 Oct
<b>Bale wheat</b>	4 Oct
Trojan wheat	30 Sept
DS Bennett wheat	9 Oct

Maturity Giles Corner 2020		
Variety	GS65 date	
	TOS 1 April 17 2020	TOS 2 May 14 2020
Planet barley	4 Sept	18 Sept
Mulgara oats	6 Sept	18 Sept
Scepter wheat	6 Sept	22 Sept
Kingbale oats	9 Sept	19 Sept
Orion wheat	9 Sept	30 Sept
<b>Bale wheat</b>	10 Sept	6 Oct
DS Bennett wheat	6 Oct	13 Oct

Initial selection rows of Bale for awnlessness, maturity and plant type



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Comments LRPB Bale Hay cutting maturity

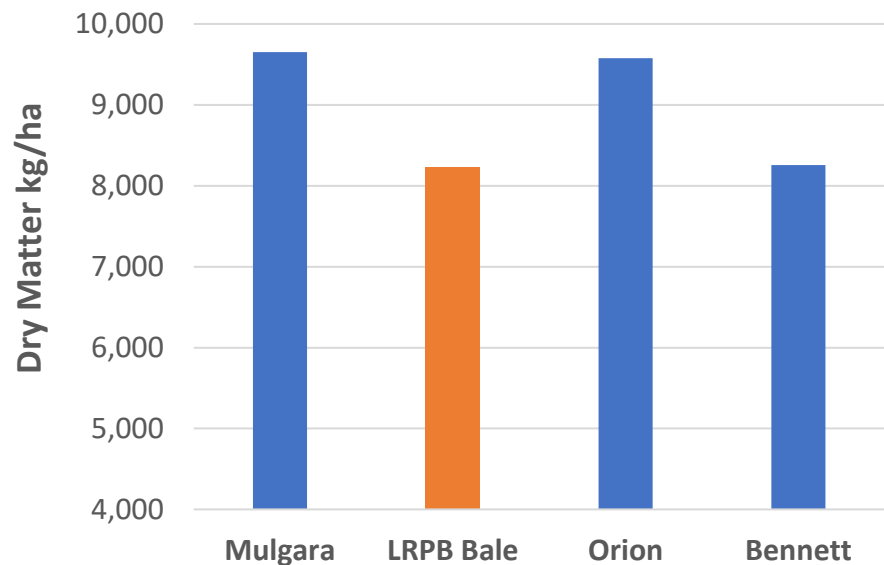
- The target set for selection an Awnless hay wheat included hay maturity timing being later than Mulgara Oats to fit in with existing hay programs on farm
- Acceptable hay quality for the first varieties developed was set as being at least equivalent to Mulgara Oats



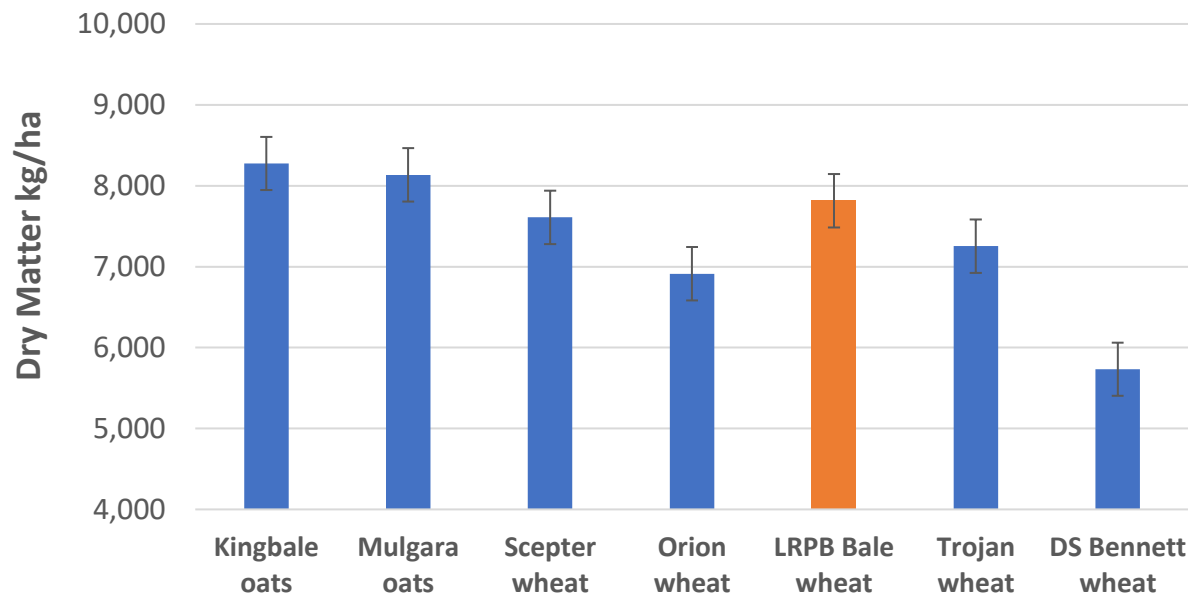
# LRPB Bale – Dry Matter 2019



TOS 1 Dry matter yield sown May 1 2019  
Giles Corner SA



TOS 2 Dry Matter Yield Sown May 15 2019  
Giles Corner SA



## Comments LRPB Bale Hay dry matter

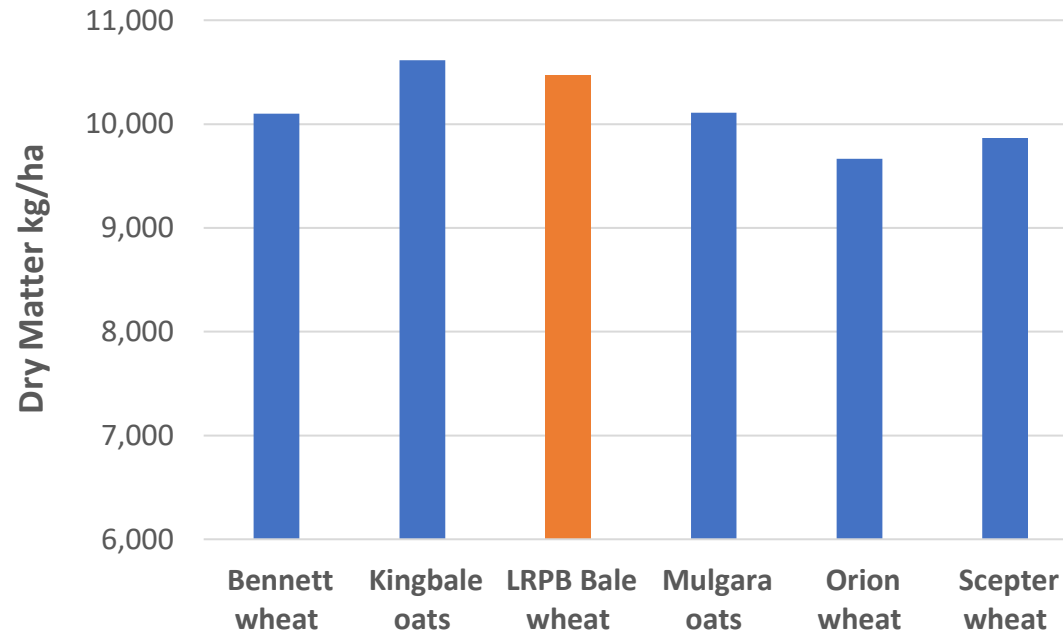
- Dry Matter production was measured at a consistent height just above the ground to ensure consistency of stem material in hay quality samples at the GS 65 growth stage



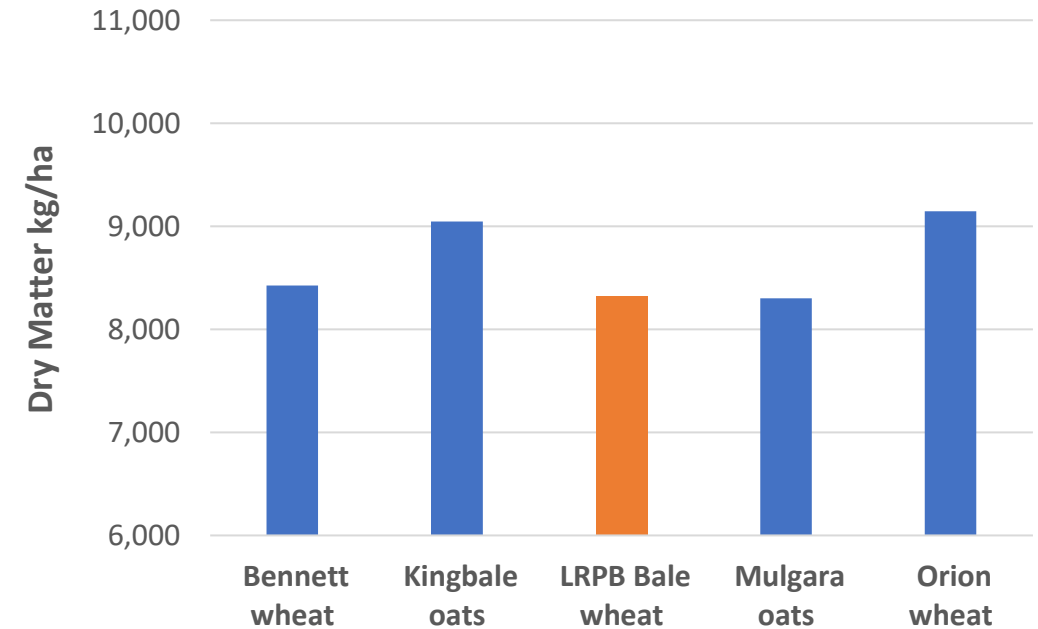
# LRPB Bale – Dry Matter 2020



TOS 1 Dry matter yield Sown April 17 2020  
Giles Corner SA



TOS 2 Dry matter yield sown May 14 2020  
Giles Corner SA



## Comments LRPB Bale Hay dry matter

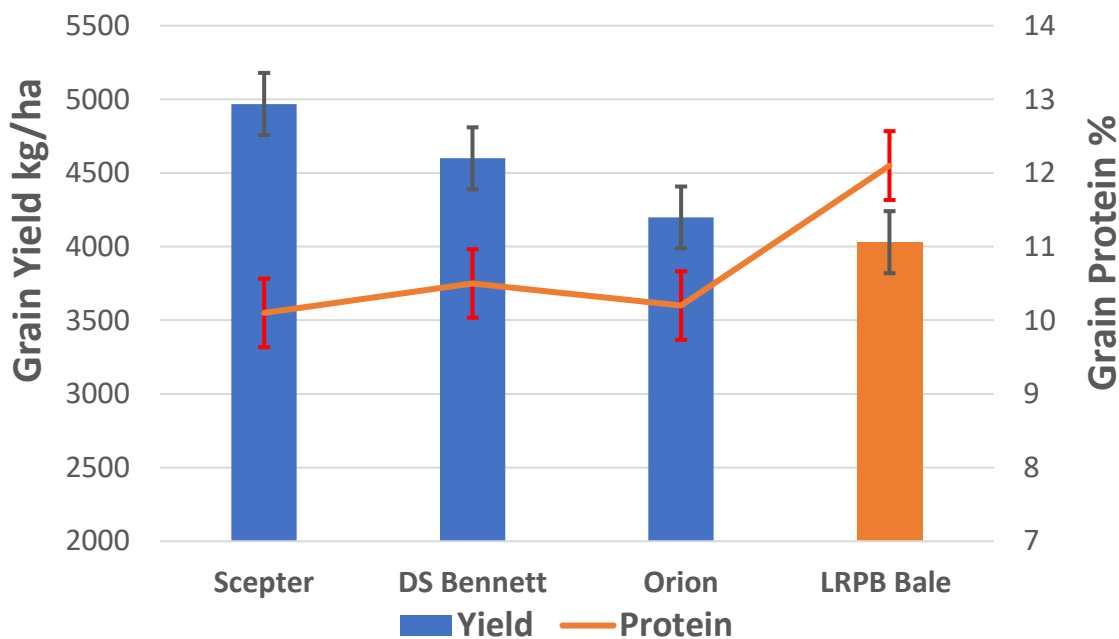
- Dry Matter production was measured at a consistent height just above the ground to ensure consistency of stem material in hay quality samples at the GS 65 growth stage



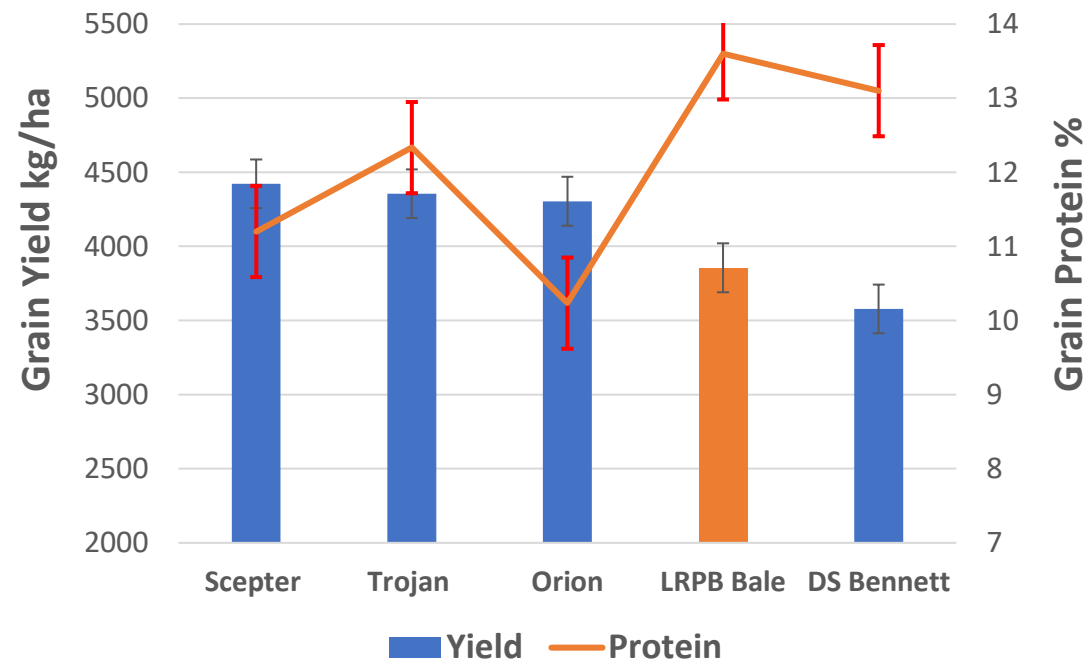
# LRPB Bale – Grain Yield and Protein 2019



**TOS 1 Grain yield and protein Sown May 1 2019**  
Giles Corner SA



**TOS 2 Grain yield and protein Sown May 15 2019**  
Giles Corner SA



## Comments LRPB Bale Grain Yield

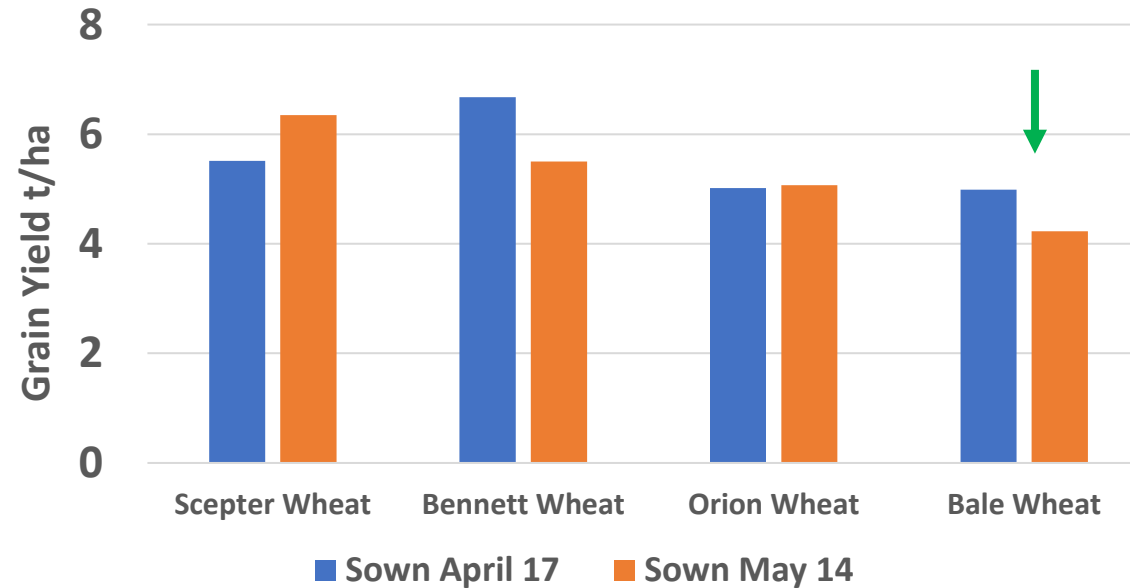
- In 2019 a similar LRPB Bale grain yield was achieved at both seeding times.
- Of the other varieties Scepter had the best Early May sown yield, while Scepter/Trojan/Orion had similar Mid May sown yield.



# LRPB Bale – Grain Yield 2020



Wheat grain yield 2020 Giles Corner SA



## Comments LRPB Bale Grain Yield

- In 2020 the higher LRPB Bale grain yield was achieved at the April seeding time that better suited the Late maturity of LRPB Bale.
- Of the other varieties Bennett had the best April sown yield, while Scepter had the best May sown yield.
- It is expected that initial awnless dual purpose wheat releases will be lower yielding than the best wheat varieties for a region in order to meet the rigorous requirements for both hay and grain markets



# LRPB Bale – Hay Quality 2019

TOS 1 Hay quality sown May 1 2019 Giles Corner SA

Variety	Sample Date	CP	ADF	aNDFom	WSC	TDN	Relative Feed Value	NDFDom30
Mulgara	18-Sep	10.6	35.5	55.7	17.9	62.7	100.7	51.7
DS Bennett	7-Oct	11.5	29.3	46.2	21.8	68.0	129.5	51.9
LRPB Orion	23-Sep	9.5	33.6	54.3	19.3	65.0	105.7	55.1
LRPB Bale	27-Sep	9.3	33.9	53.1	19.6	65.7	107.0	50.5



TOS 2 Hay quality sown May 15 2019 Giles Corner SA

Variety	Sample Date	CP	ADF	aNDFom	WSC	TDN	Relative Feed Value	NDFDom30
Wintaroo	1-Oct	12.1	30.4	47.3	22.0	66.3	125.0	51.6
Mulgara	27-Sep	11.2	33.9	51.3	21.2	65.3	111.0	50.7
Kingbale	1-Oct	12.4	29.8	46.6	22.9	67.3	128.0	53.6
Scepter	27-Sep	10.5	29.1	47.4	25.5	67.0	126.5	58.4
LRPB Trojan	1-Oct	11.5	31.9	48.4	22.5	66.7	120.0	52.5
LRPB Orion	1-Oct	11.6	30.9	46.8	26.2	66.0	125.7	56.5
LRPB Bale	4-Oct	11.1	33.5	53.8	18.2	65.3	106.3	50.9
DS Bennett	11-Oct	11.4	27.9	43.3	27.3	68.0	140.5	52.5

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## Comments LRPB Bale Hay Quality

- Detailed hay quality studies in 2019 showed LRPB Bale to meet the quality requirements of the hay market



# LRPB Bale – Hay Quality 2020

TOS 1 Hay quality sown April 17 2020 Giles Corner SA

Variety	Sample date	CP	ADF	aNDFom	WSC	TDN	Relative Feed Value	NDFDom30
Mulgara oats	6-Sept	8.1	40.4	63.0	11.5	59.0	83.0	38.4
Scepter wheat	6-Sept	10.0	32.1	52.8	20.7	66.0	110.0	51.4
Kingbale oats	9-Sept	9.1	39.5	62.2	11.5	60.0	86.0	41.8
Orion wheat	9-Sept	8.5	35.5	57.7	15.7	62.3	96.3	45.3
LRPB Bale wheat	10-Sept	9.2	35.9	59.9	14.2	62.0	92.7	48.5
DS Bennett	6-Oct	8.4	31.6	56.9	20.5	64.3	104.7	47.1

TOS 2 Hay quality sown May 14 2020 Giles Corner SA

Variety	Sample date	CP	ADF	aNDFom	WSC	TDN	Relative Feed Value	NDFDom30
Mulgara oats	18-Sept	10.1	36.6	60.2	12.6	62.0	91.7	46.0
Kingbale oats	19-Sept	10.4	35.5	58.7	12.1	63.0	95.5	45.3
Orion wheat	30-Sept	8.6	32.8	58.4	17.2	63.3	99.3	46.9
LRPB Bale wheat	6-Oct	8.6	31.7	55.6	16.9	64.0	105.0	47.8
DS Bennett	6-Oct	8.8	29.8	52.5	24.0	65.3	113.7	46.9
Scepter wheat	22-Sept	9.6	32.5	55.7	17.6	63	103	46.9

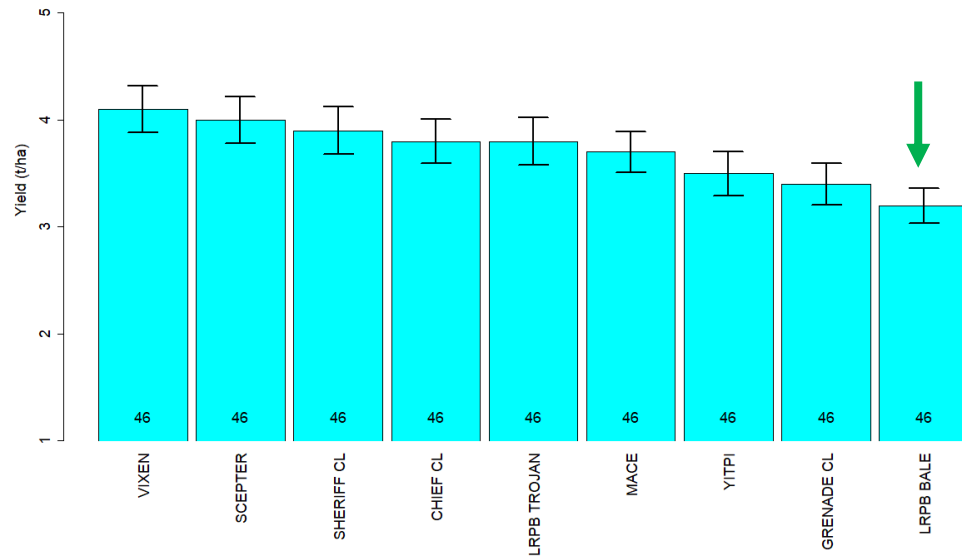


## Comments LRPB Bale Hay Quality

- Detailed hay quality studies in 2020 showed LRPB Bale to meet the quality requirements of the hay industry

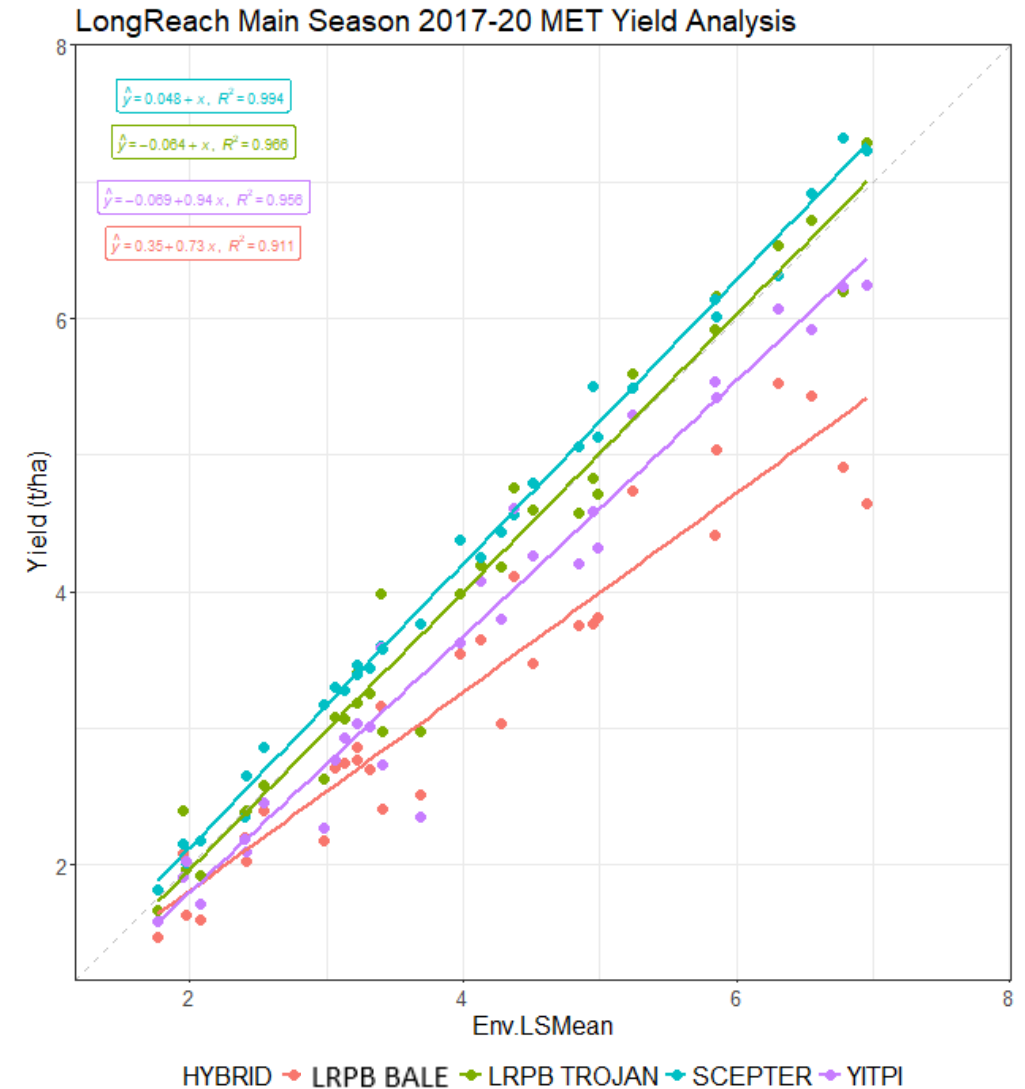


# LRPB Bale Yield – LongReach Predicted MET (2017-2020)



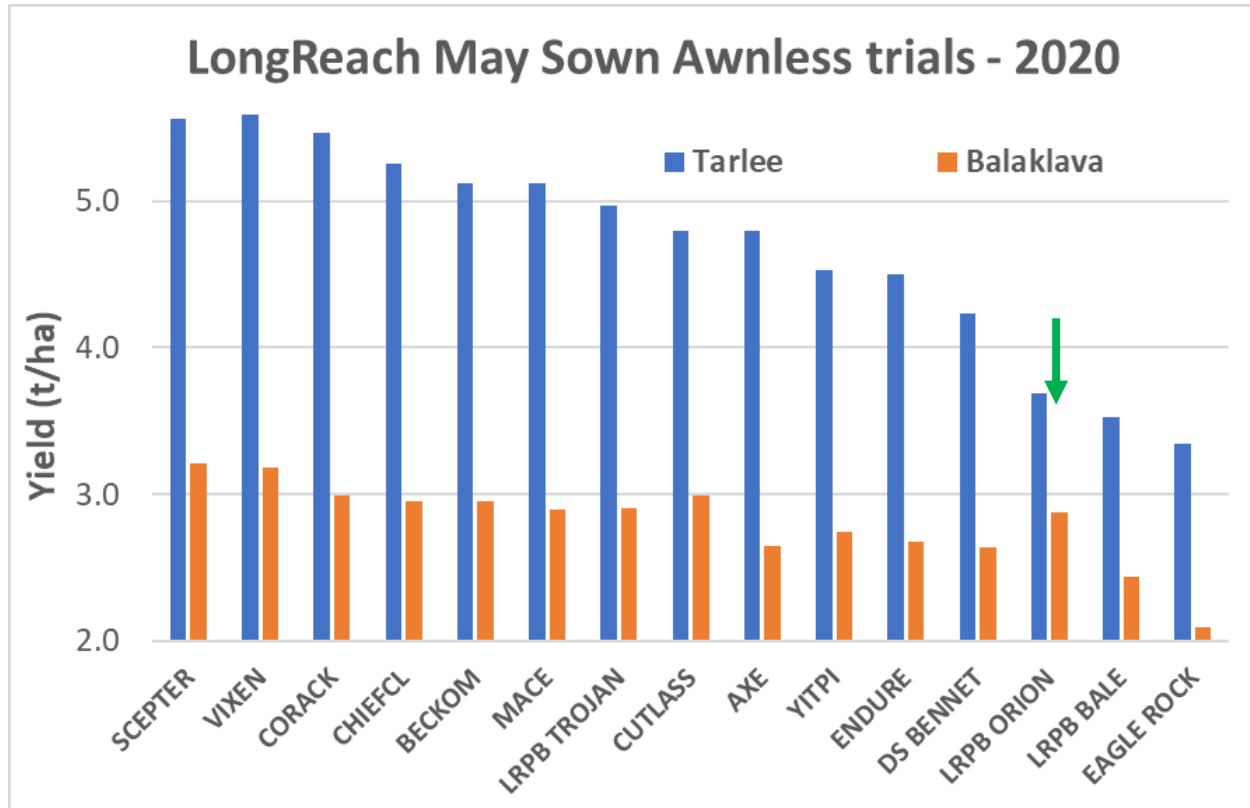
## Comments LRPB Bale (Main Season Planting)

- LRPB Bale was included in LongReach trials in 2019 and 2020 with this data being MET predicted yield across SA and Vic Main Season trials over a 4 year trial period
- Yield performance of LRPB Bale shows it sits below Yitpi and other more widely grown varieties when sown in a main season window
- The Slow Spring maturity of LRPB Bale requires earlier seeding to close this yield gap and it should be seen as having steady yield capacity only of benefit if other risks such as frost are high enough to require this diversity





# LRPB Bale - Yield LongReach Awnless trials 2020

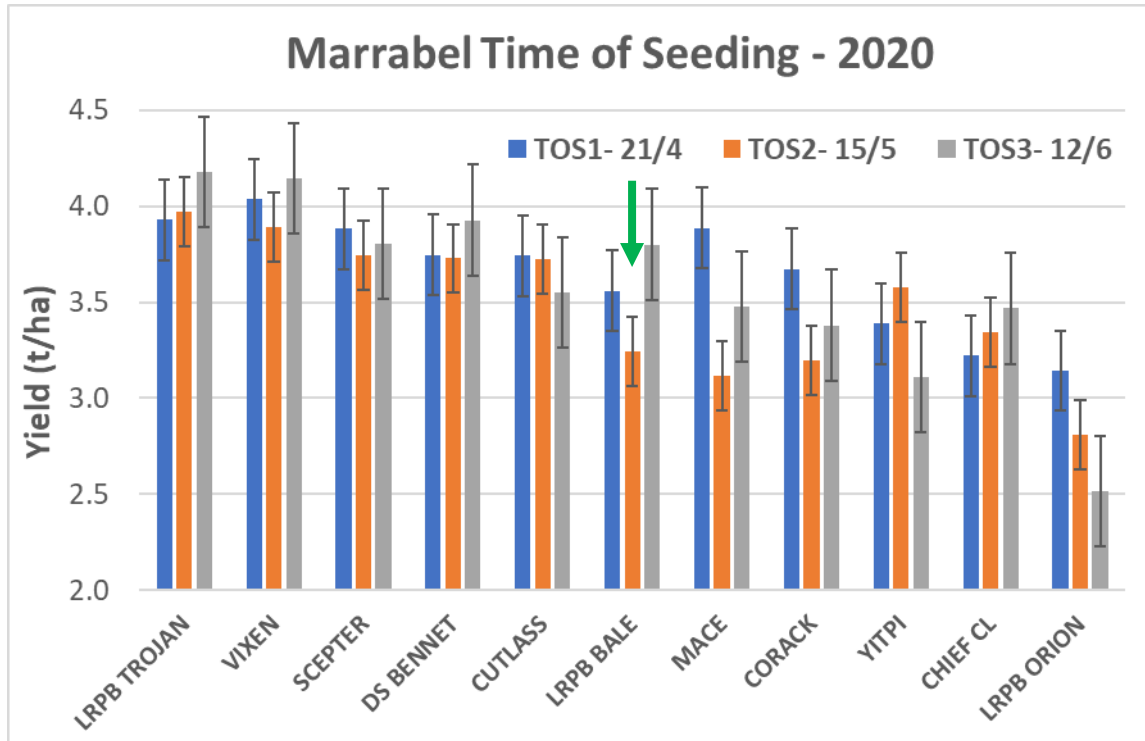


## Comments LRPB Bale (Main Season Planting)

- At the high yield Tarlee site LRPB Bale had similar grain yield to Orion but was 1.4-2.0 t/ha behind widely grown varieties like Scepter and Trojan
- The lower yielding Balaklava site showed smaller differences but the later maturity of LRPB Bale meant it was 0.3-0.5 t/ha behind the widely grown varieties
- **LRPB Bale has not been released to replace high yielding wheats in low risk areas of farms and should be targeted at higher frost risk areas where the yield loss with main season wheats makes them too volatile**



# LRPB Bale Yield – LongReach Time of Seeding 2020



## Yield LRPB Bale

- The Marrabel TOS trial had an unusual yield pattern with late rains helping slower maturing lines such as LRPB Bale and Bennet deliver the highest yield at the latest sowing time
- This site escaped serious frost damage and at the earliest sowing time that best suited the maturity of LRPB Bale yield was within 0.3-0.5 t/ha of widely grown main season varieties
- At all seeding times LRPB Bale out yielded the awnless LRPB Orion



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# LRPB Bale – Early sown winter and awnless wheats trial (Hart Field site - 2020)

Table 2. Dry matter (t/ha) and grain yield (t/ha) for wheat varieties trialed at Hart, 2020. Numbers appended by different letters within the grain yield columns are different from each other.

Variety	April 20	May 6	April 20	May 6
	Dry matter (t/ha)		Grain yield (t/ha)	
Catapult			2.13 <sup>def</sup>	2.92 <sup>ab</sup>
Denison			1.91 <sup>ef</sup>	2.43 <sup>bcd</sup>
Illabo			1.65 <sup>f</sup>	2.00 <sup>def</sup>
Scepter			1.65 <sup>f</sup>	3.03 <sup>a</sup>
Nighthawk			2.28 <sup>cde</sup>	1.97 <sup>def</sup>
DS Bennett	4.23	3.88	2.19 <sup>cde</sup>	2.25 <sup>cde</sup>
LRPB Dual	4.49	4.31	2.02 <sup>def</sup>	2.64 <sup>abc</sup>
LRPB Bale	4.27	4.81	1.98 <sup>def</sup>	2.04 <sup>def</sup>
Orion	4.46	4.03	2.06 <sup>def</sup>	2.00 <sup>def</sup>
	NS		LSD (P≤0.05) 0.50	



[https://www.hartfieldsite.org.au/media/2020%20Trial%20Results/2020 Hart Trial Results Early sown winter and awnless wheat.pdf](https://www.hartfieldsite.org.au/media/2020%20Trial%20Results/2020%20Hart%20Trial%20Results%20Early%20sown%20winter%20and%20awnless%20wheat.pdf)

## Early sown winter and awnless wheats (LRPB Bale tested as LPB18-7946)

- Dry matter production at the watery ripe (GS71) cutting stage ranged from 3.88 t/ha to 4.49 t/ha for all awnless varieties. The new awnless varieties did not improve dry matter production compared to DS Bennett and Orion.
- At harvest, LRPB Dual was the highest yielding (2.66 t/ha) awnless variety, sown in early May while the other awnless varieties (DS Bennett, Orion and LRPB Bale) yielded similarly (1.98 – 2.25 t/ha).
- LRPB Bale had similar yield at both seeding times being most competitive at the early April 20<sup>th</sup> planting.



Dual Purpose Wheat

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# LRPB Dual Yield – NVT Long term MET Data

NVT MET Predicted Long Term Yield (2019-23) for SA/Vic Early Break trials (% Mean Yield)

	Group Mean Yield	2019 4.88 t/ha	2020 3.69 t/ha	2021 3.85 t/ha	2022 4.13 t/ha	2023 3.77 t/ha
Variety	Trials	2	4	2	5	4
DS Bennett	11	111	109	102	139	89
Stockade	6				124	102
RockStar	17	109	110	110	109	103
Denison	15		108	107	98	107
Illabo	17	98	97	96	108	100
Yitpi	15		91	95	92	98
Sheriff CL Plus	17	100	97	99	87	94
LRPB Bale	11			89	101	90
EGA Wedgetail	16	95	90	89	98	90

NVT regions (Upper EP, SA Mallee, Vic Malee, Wimmera, Nth Central) NVT Online 18th March 2024

NVT MET Predicted Long Term Yield (2019-23) for Mid North Main Season trials (% Mean Yield)

	Group Mean Yield	2019 2.82 t/ha	2020 5.14 t/ha	2021 4.59 t/ha	2022 6.51 t/ha	2023 3.44 t/ha
Variety	Trials	4	4	4	4	3
LRPB Matador	7				104	107
RockStar	19	109	108	109	108	103
Scepter	19	110	103	106	104	108
Denison	15		103	107	104	102
LRPB Trojan	19	98	100	102	105	98
Sheriff CL Plus	19	104	102	101	97	101
LRPB Dual	11			97	92	98
Yitpi	19	91	92	95	93	95
LRPB Bale	11			91	88	87

NVT regions (Mid North SA) NVT Online 18th March 2024

LRPB Bale was first included in NVT trials in 2021

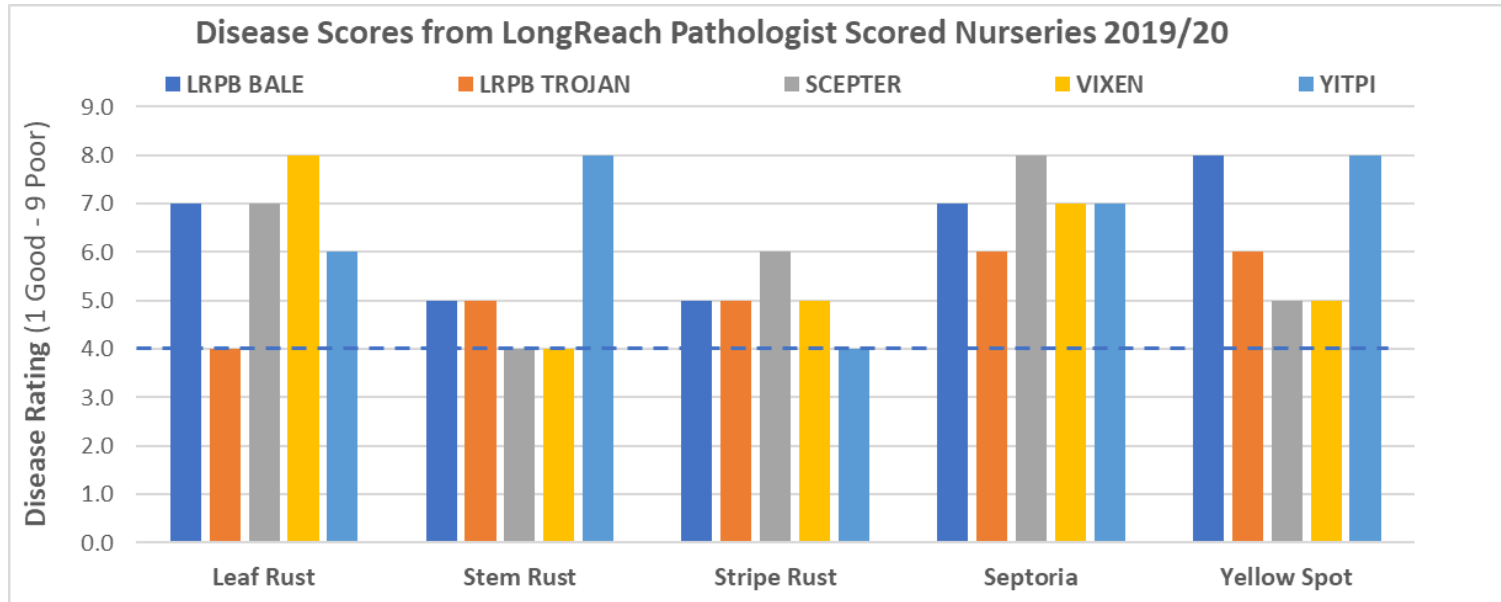
- LRPB Bale has shown steady yield lower than the widely grown varieties in the main season May planting window (NVT Mid North Main Season trials)
- LRPB Bale is more competitive when sown in the mid April window with the longer season suiting its maturity, but still a conservative grain only option (NVT SA/Vic Early Break trials)
- LRPB Bale is targeted at higher frost risk areas where damage can result in significant yield losses regularly and growers need to cut hay to maximise income
- LRPB Bale offers more flexibility to growers in higher frost areas for harvest strategies



Dual Purpose Wheat



# LRPB Bale – LongReach and NVT data



## LongReach Disease Rating LRPB Bale

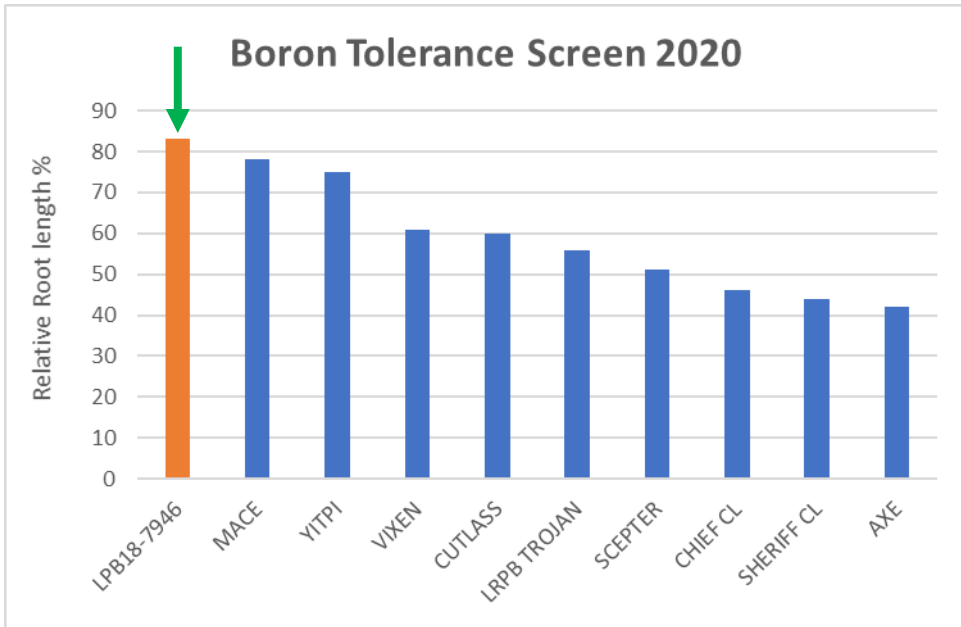
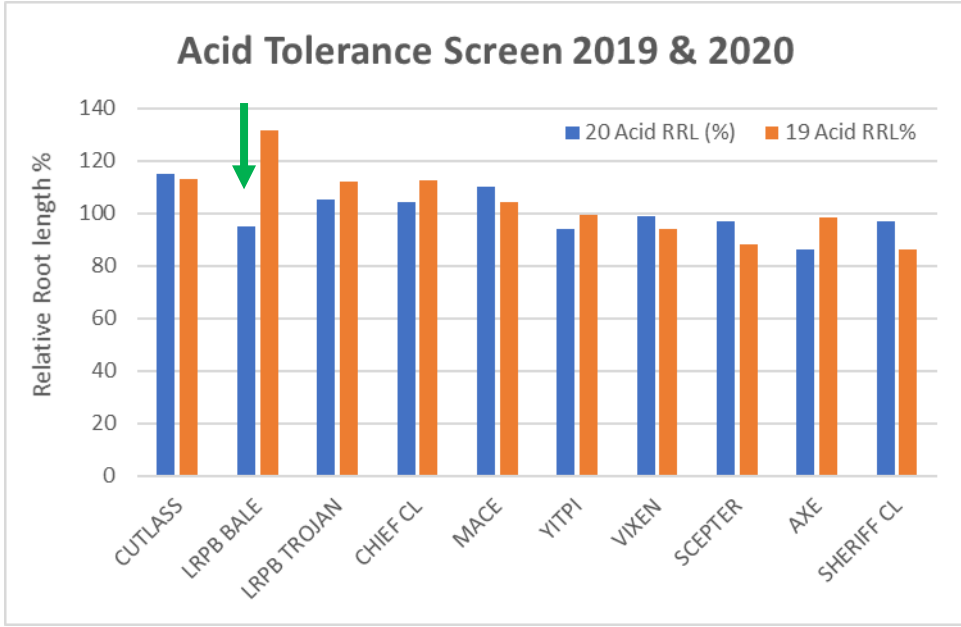
- Good **Stem rust MRMS** level of resistance
- Good **Stripe rust MRMS** level of resistance
- Base **Leaf rust MSS** rust resistances
- Susceptible to **Septoria MSS** with screens indicating better than Scepter
- Weak for **Yellow Spot SVS** as is the Scout parent material and **does not suit being grown on wheat stubbles**
- Useful **Powdery Mildew MS** tolerance
- Excellent **CCN R** resistance

Attributes	Rating
Classification	APW (SA/VIC)
Stem Rust	MRMS
Leaf Rust	MSS
Stripe Rust East	MRMS
Septoria Tritici	MSS
Prat. Thornei - Resistance	S
Prat. Thornei - Tolerance	IVI
Crown Rot	S
Yellow Spot	SVS
Powdery Mildew	MS
Prat. Neglectus - Resistance	S
Prat. Neglectus - Tolerance	IVI
CCN	R
Black Point	S
Boron Tolerance	MT
Acid Soil Tolerance	MT-T
Coleoptile Length	Long
Farmer to Farmer Trade	Allowed
EPR Rate/MT (ex GST) Grain	\$3.50
EPR Rate/MT (ex GST) Hay	\$3.50

Longreach disease ratings have been compiled from LongReach Disease Screening data and from NVT Disease Ratings March 2024.



# LRPB Bale - Additional Screening data



Shown good waterlogging tolerance and biomass production at a wet Conmurra SE SA site in 2021

- Comments LRPB Bale
- Boron screens show good tolerance to high Boron levels and markers show the presence of a Boron tolerance gene indicating a MT rating
  - Acid tolerance screens suggest reasonable level of tolerance



# LRPB Bale - Grain receival quality

## Grain Receival quality from 3 LongReach trials 2020

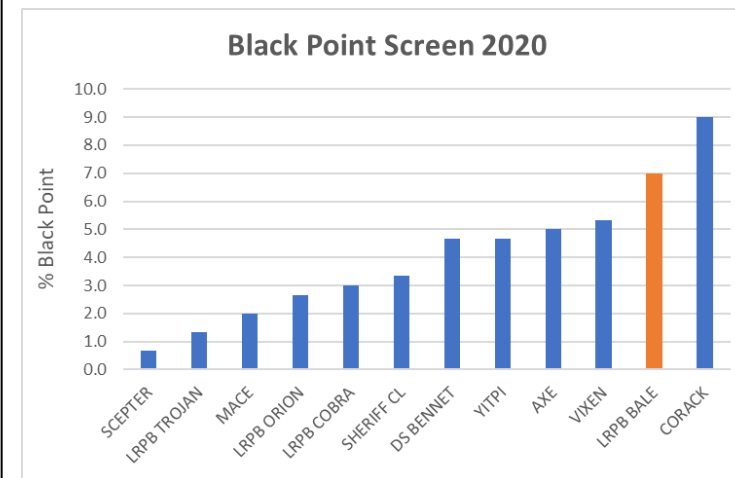
LINCD	Grain Protein (%)			Test Weight (kg/hl)			1000 Grain Weight (g)			Screening (%)			Black Point (%)		
	Minnipa	Tarlee	Rudall	Minnipa	Tarlee	Rudall	Minnipa	Tarlee	Rudall	Minnipa	Tarlee	Rudall	Minnipa	Tarlee	Rudall
AXE	13.3	12.6	14.4	83.3	82.1	85.1	44.8	43.3	40.2	0.5	0.6	0.5	0.3	1.0	1.7
BEKOM	10.9	11.5	13.2	86.7	82.9	86.5	38.4	38.3	34.5	0.5	0.4	1.3	0.3	2.0	0.7
CHIEF CL	10.8	11.8	12.4	85.1	84.7	85.1	46.0	50.5	39.3	0.5	0.2	0.6	0.3	3.0	0.7
CUTLASS	11.4	11.9	13.5	87.0	84.8	86.9	38.6	44.2	38.3	0.6	0.4	0.4	0.7	1.7	3.7
<b>LRPB BALE</b>	<b>13.5</b>	<b>13.0</b>	<b>14.8</b>	<b>86.5</b>	<b>85.3</b>	<b>86.9</b>	<b>41.9</b>	<b>39.9</b>	<b>41.1</b>	<b>0.6</b>	<b>0.4</b>	<b>0.7</b>	<b>0.7</b>	<b>0.0</b>	<b>2.3</b>
LRPB TROJAN	11.4	12.2	13.3	87.7	85.1	87.5	41.3	48.1	39.2	0.5	0.2	0.4	0.0	1.7	0.7
MACE	11.3	12.1	12.6	87.5	83.8	86.8	44.4	41.5	41.9	0.3	0.3	0.4	0.3	0.0	0.0
SCEPTER	10.9	11.4	12.1	88.1	85.2	87.6	47.1	47.0	44.0	0.4	0.6	1.1	0.3	0.3	0.7
SHERIFF CL	10.7	11.9	12.6	87.0	84.3	86.1	43.1	43.8	37.9	0.4	0.2	0.2	0.0	0.7	0.7
VIXEN	12.0	11.8	12.2	85.0	83.0	85.6	48.2	43.1	40.0	0.3	0.6	0.5	0.3	0.0	0.0
YITPI	11.8	12.3	13.7	86.8	84.8	86.5	38.9	44.7	41.3	1.0	1.0	0.6	0.0	2.3	3.0



Dual Purpose Wheat

### Comments LRPB Bale

- Grain deliverables from 2020 trials show similar specs to many robust varieties on the market with sound test weight and medium grain size
- LRPB Bale was later maturity than other varieties in these trials and late rains enables it to finished with adequate grain size
- Good finishing rains also meant that grain Screenings % were low in 2020 and a late line like this will need to be tested in a tougher finish
- Black point has been low in recent seasons and limited 2021 data suggests LRPB Bale is Susceptible between Corack and Yitpi in tolerance
- **LRPB Bale has a Southern Zone (SA/Vic) APW classification for the 2021/22 harvest**





# LRPB Bale - Grain receival quality 2023 NVT

**NVT grain quality for Mid North Main Season trials (2023)**

Variety Name	Test Weight (kg/hl)			Protein (%)			Grain Size (g/1000 seed)			Screenings (% <2mm)		
	Booleroo	Spalding	Turretfield	Booleroo	Spalding	Turretfield	Booleroo	Spalding	Turretfield	Booleroo	Spalding	Turretfield
Ballista	84.85	80.45	82.98	13.60	11.60	10.00	37.25	34.49	42.00	0.48	5.74	2.67
Calibre	83.79	81.01	83.77	14.60	11.80	10.40	38.64	35.11	40.97	0.33	5.19	2.48
Catapult	84.57	83.90	83.48	14.10	10.30	10.40	35.08	34.06	37.05	0.52	3.61	2.57
Cutlass	83.90	82.55	86.04	14.90	10.70	10.50	35.01	35.47	41.26	1.05	2.64	2.68
Denison	84.81	84.62	84.94	15.60	10.00	10.70	38.08	36.49	39.41	0.38	3.69	3.22
Genie	83.69	84.20	85.03	14.40	11.40	11.10	32.46	31.65	36.70	4.01	10.29	5.68
<b>LRPB Bale</b>	<b>83.36</b>	<b>85.00</b>	<b>85.33</b>	<b>17.10</b>	<b>12.50</b>	<b>12.00</b>	<b>32.09</b>	<b>34.57</b>	<b>40.03</b>	<b>1.26</b>	<b>1.71</b>	<b>1.17</b>
LRPB Dual	83.94	84.80	85.10	15.60	12.10	11.40	36.49	36.64	40.93	0.44	2.07	1.55
LRPB Matador	84.48	83.19	83.38	13.80	10.20	10.90	35.15	36.18	36.67	0.79	5.63	4.70
LRPB Trojan	85.67	85.38	86.70	14.10	10.20	10.40	37.76	40.71	41.60	0.39	2.62	1.72
RockStar	83.73	82.26	84.40	14.10	10.80	10.20	38.21	36.32	44.38	0.87	4.24	2.54
Scepter	85.02	84.41	84.76	13.50	10.50	10.30	37.78	38.91	42.91	1.11	2.50	2.10
Sheriff CL Plus	83.92	83.22	82.52	14.30	11.00	10.70	35.71	34.25	39.21	0.36	3.96	1.72
Vixen	85.16	81.99	84.16	13.40	10.70	10.80	37.46	36.68	39.10	0.55	3.53	2.53
Yitpi	84.32	83.70	85.79	15.20	10.70	10.90	38.03	37.00	41.77	0.36	1.80	2.12



Dual Purpose Wheat

## Comments LRPB Bale

- Grain deliverables from 2023 Main Season NVT trials show that even under tougher seasonal conditions that Bale is able to finish grain well maintaining low screenings and high test weight

# LRPB Bale – Seed distribution and availability



## Dual Purpose Wheat



- Seed is available for LongReach Bale
  - Contact: Richard Verner, RH Verner & Co Pty Ltd, Mallala, SA 5502.
  - Mobile: 0429 202 182; Fax: (08) 8520 2123; Email: richard@rhverner.com.au
- LongReach Bale is also able to be “farmer to farmer” traded to make it easily available to growers
- EPR of \$3.50/MT (GST Exc.) has been set for grain deliveries
- **A Hay EPR of \$3.50/MT (GST Exc.) has been implemented for the 2024 season as per the standard LongReach Seed licence: <https://www.longreachpb.com.au/royalties>**





# 2024 AgroPack



**A Hay EPR has been added to the LongReach seed licence for the 2024 season to support Awnless Wheat variety development**

## ***Awnless APW Slow Spring Wheat***

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