

# LRPB MATADOR (LPB18-4160)



Mid Spring high yield Scepter type with improved canopy and disease resistance

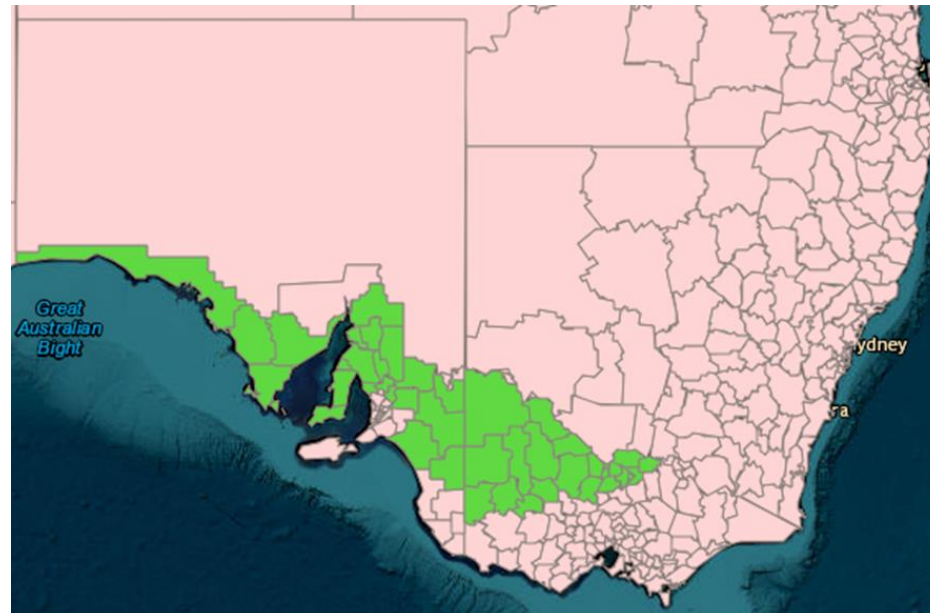
WHEAT

# LRPB Matador – Mid Spring high yield Scepter type



- LRPB Matador was developed by LongReach Plant Breeders as a Double Haploid produced from a cross between Scepter and broadly adapted breeding line
- Mid maturity AH wheat with market leading yield that has consistently outyielded Vixen and Scepter
- Improved Powdery Mildew (MS) and Stripe rust resistance (MS) over Scepter adding some minor genes for both diseases
- LRPB Matador was tested as LPB18-4160 being first entered into LongReach yield trials in 2018 and NVT trials in 2022

LRPB Matador Minnipa, SA, 2022



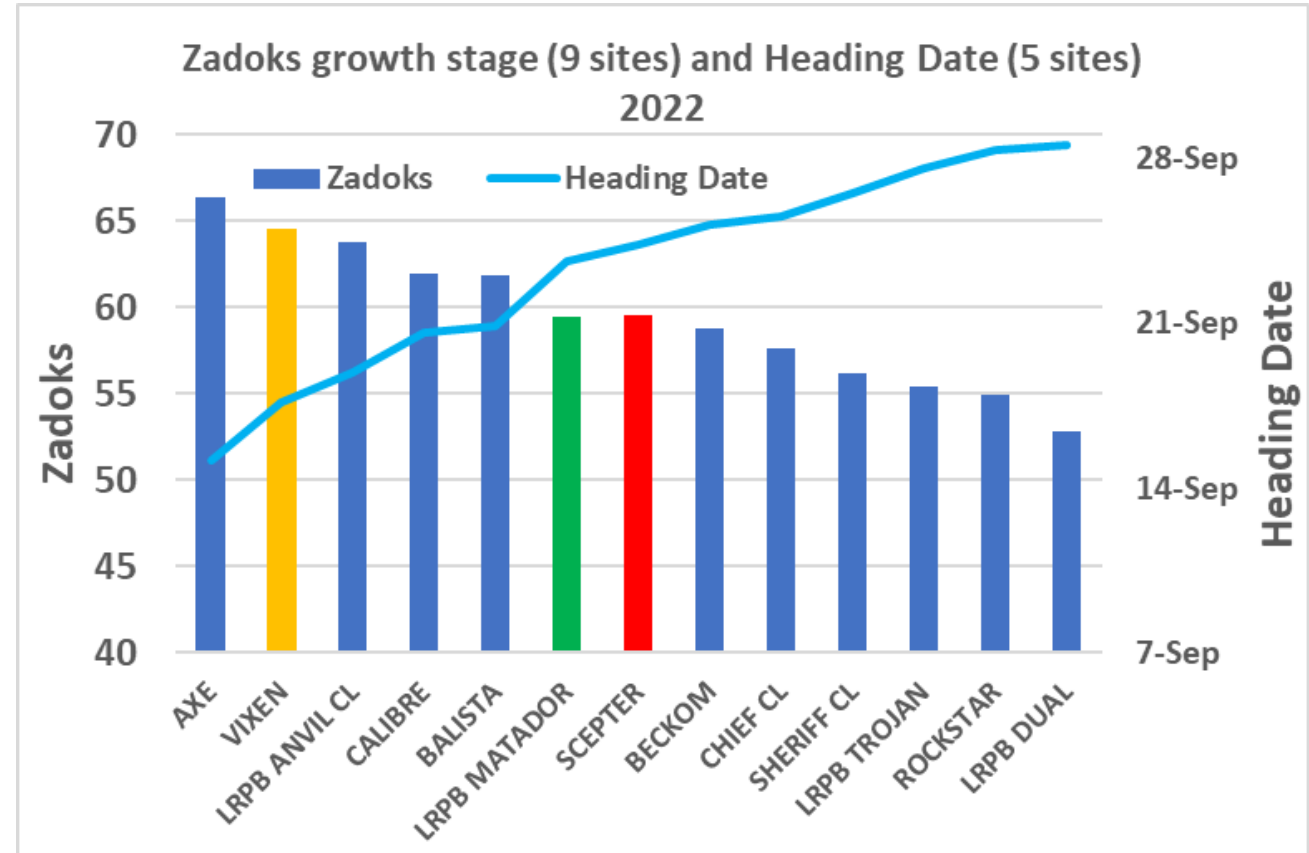
LongReach Southern Breeder  
Dr Harpreet Gill

# Mid Spring Maturity similar to Scepter

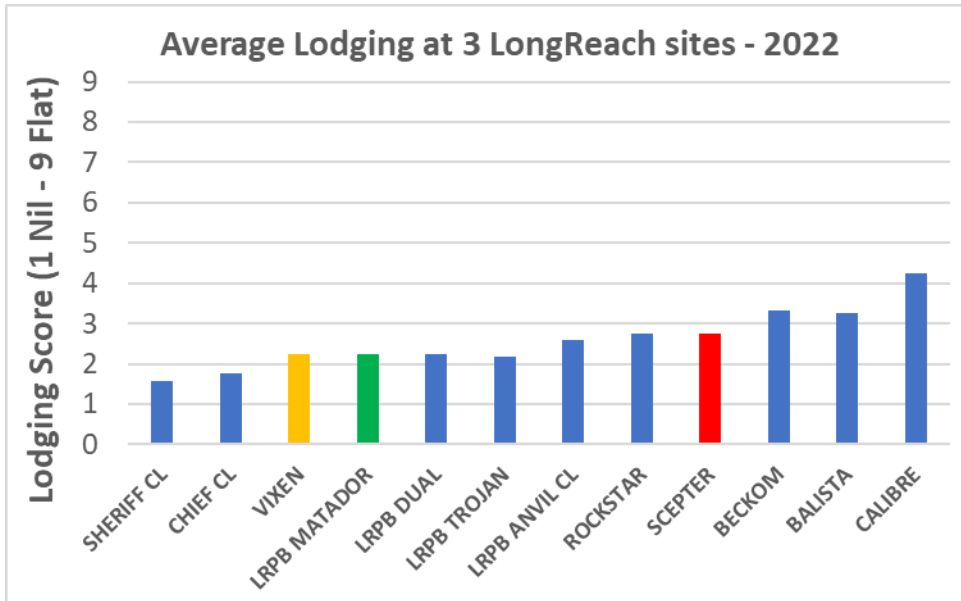
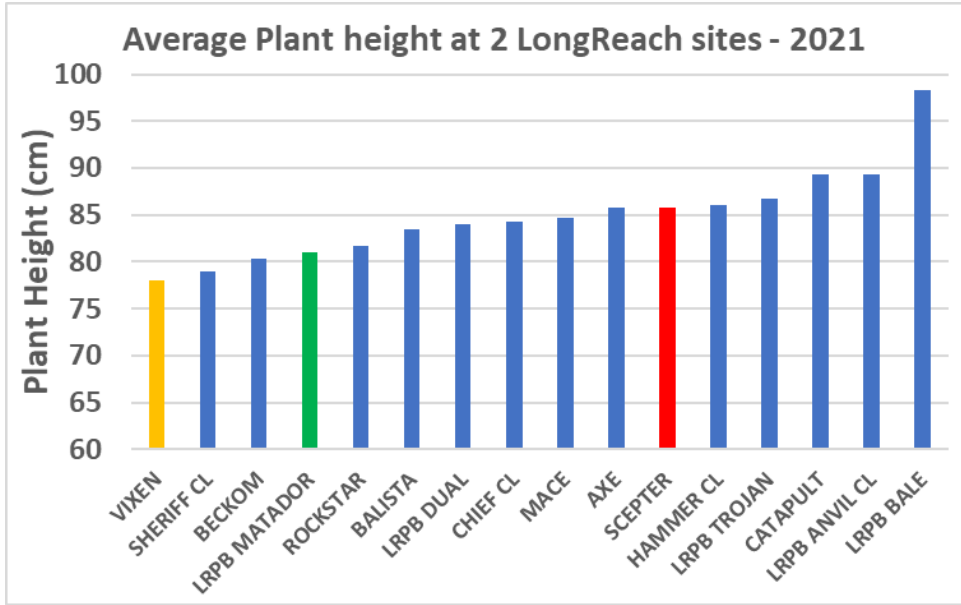
- Mid Spring variety with similar maturity to Scepter with broad adaptation to suit large market area
- LRPB Matador complements quicker varieties like Vixen and Calibre on farm with its maturity well suited to planting in early May as Scepter has been used



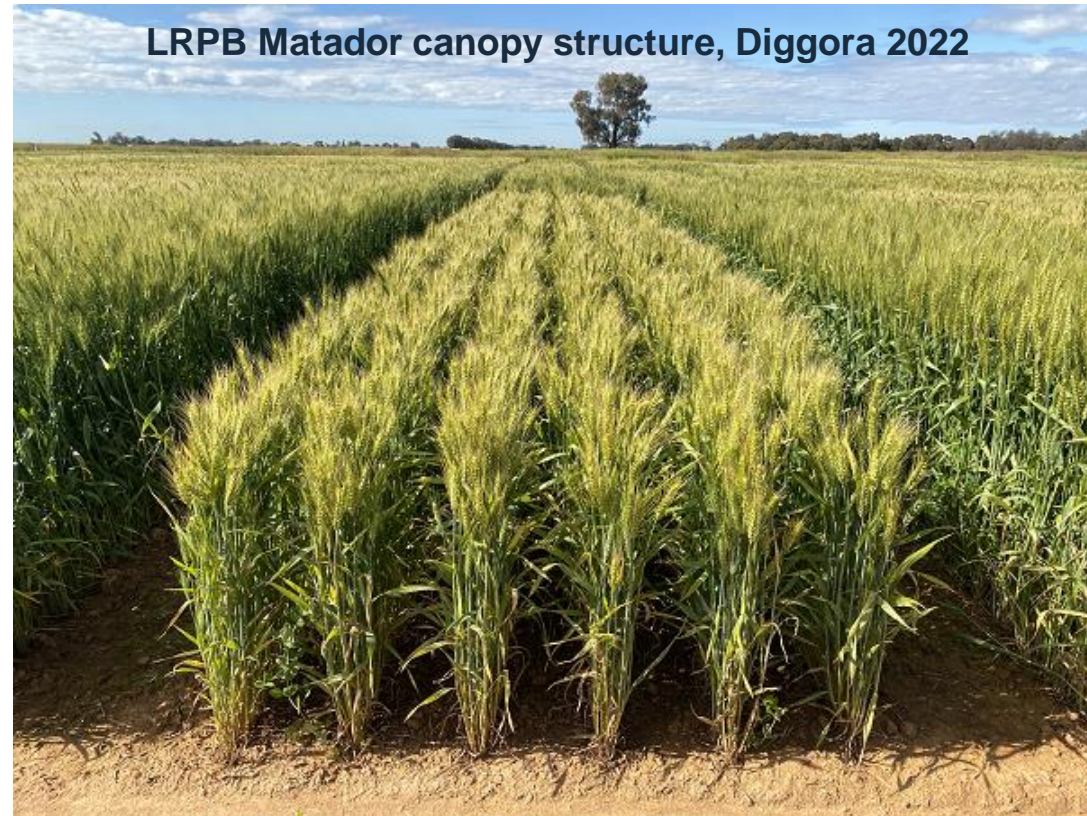
LRPB Matador LHS (Mid) vs Calibre (Quick-mid)



# Agronomy LRPB Matador

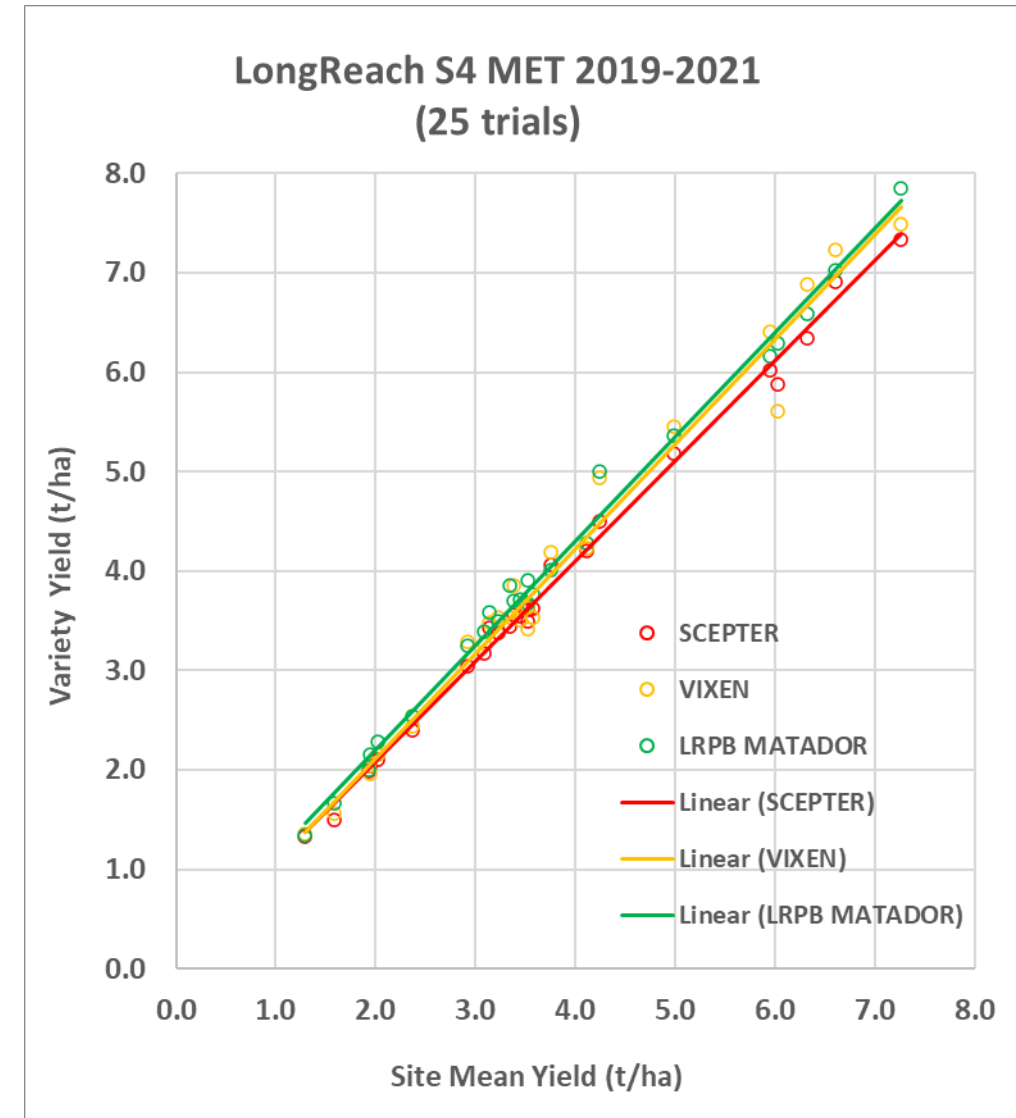
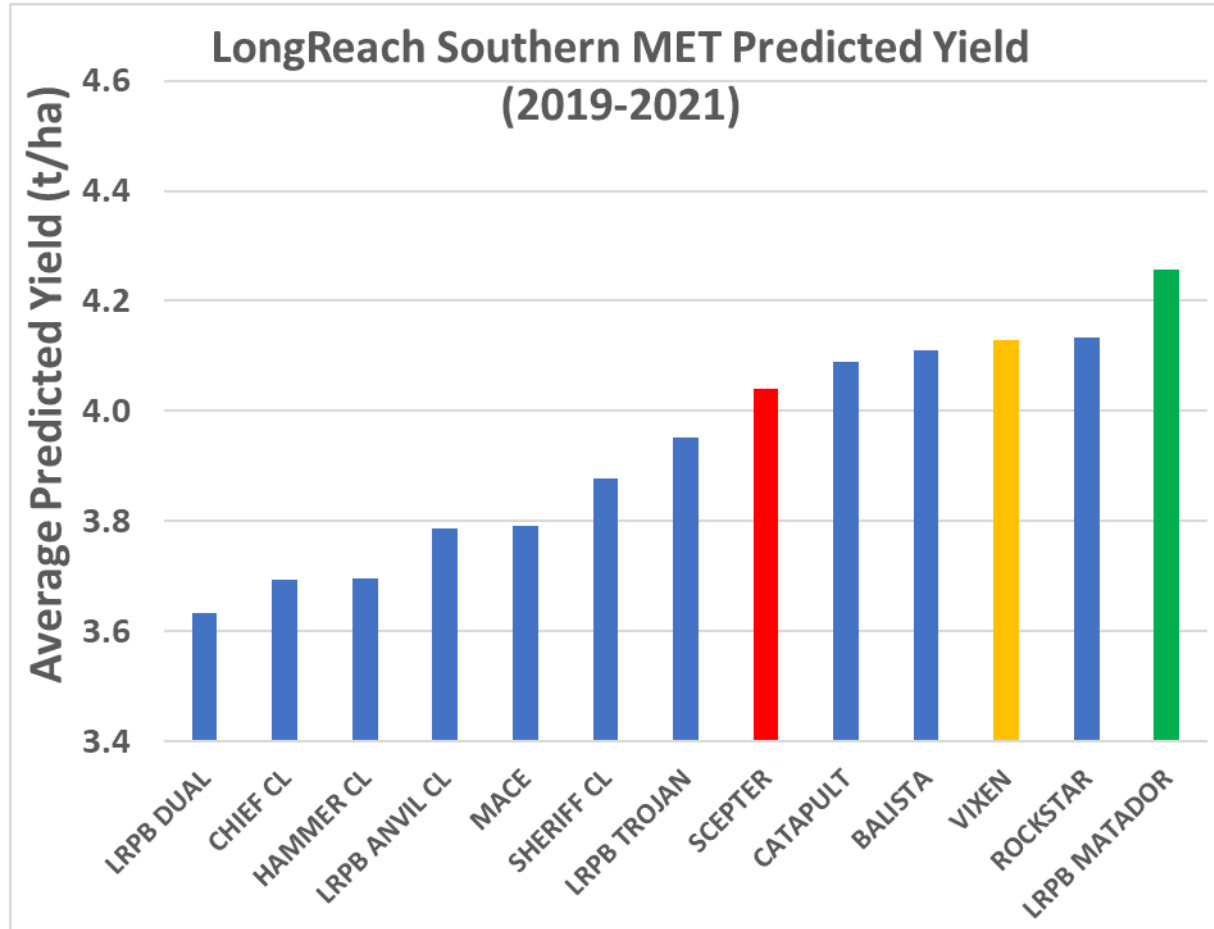


- LRPB Matador shows average vigour with good tillering and steadily builds bulk over the season
- Has 2 reduced height genes (Rht2 and Rht24) to produce a more erect and shorter type than Scepter which can handle both tough conditions and high production
- Lodging tolerance has shown to be better than Scepter and much better than Calibre
- Has tolerance genes for both Boron and Aluminium



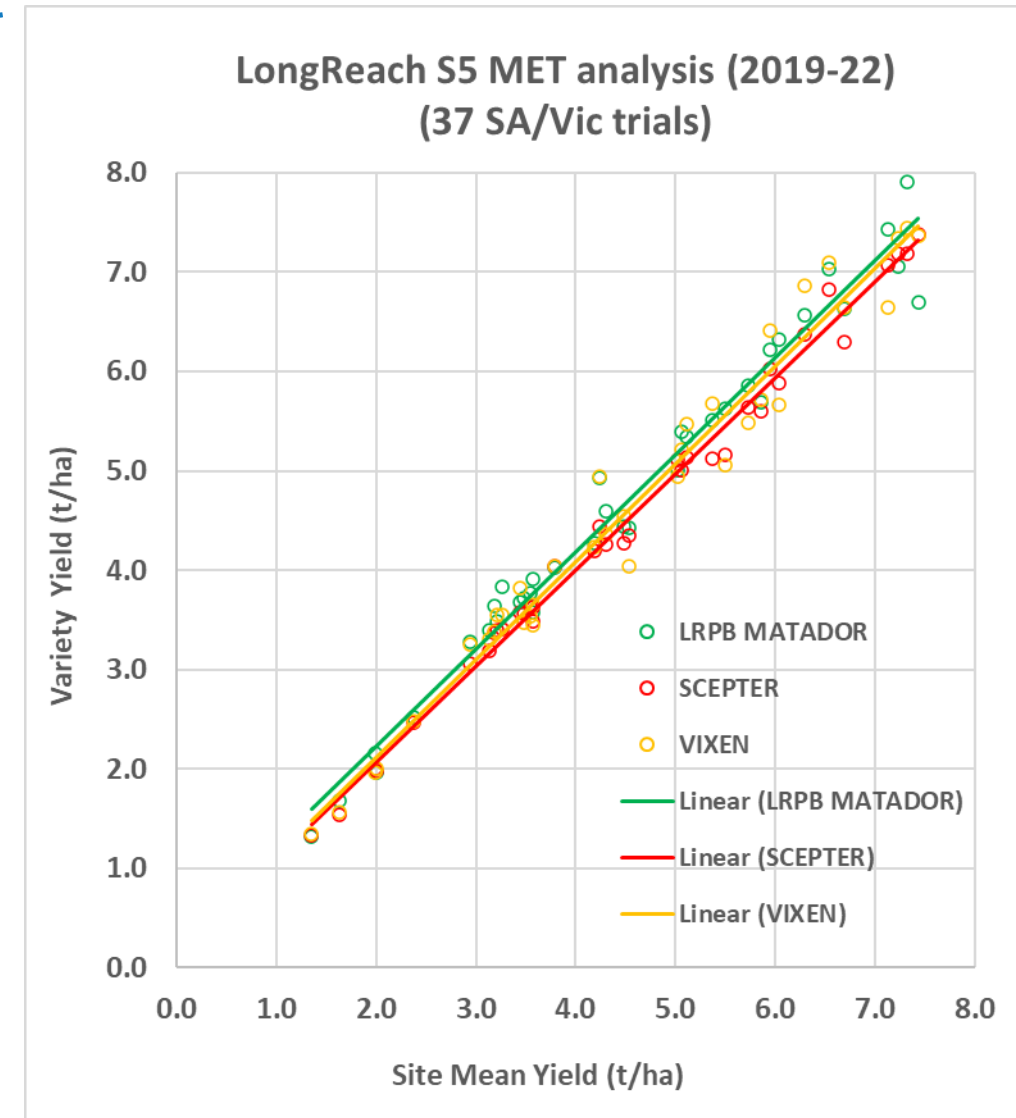
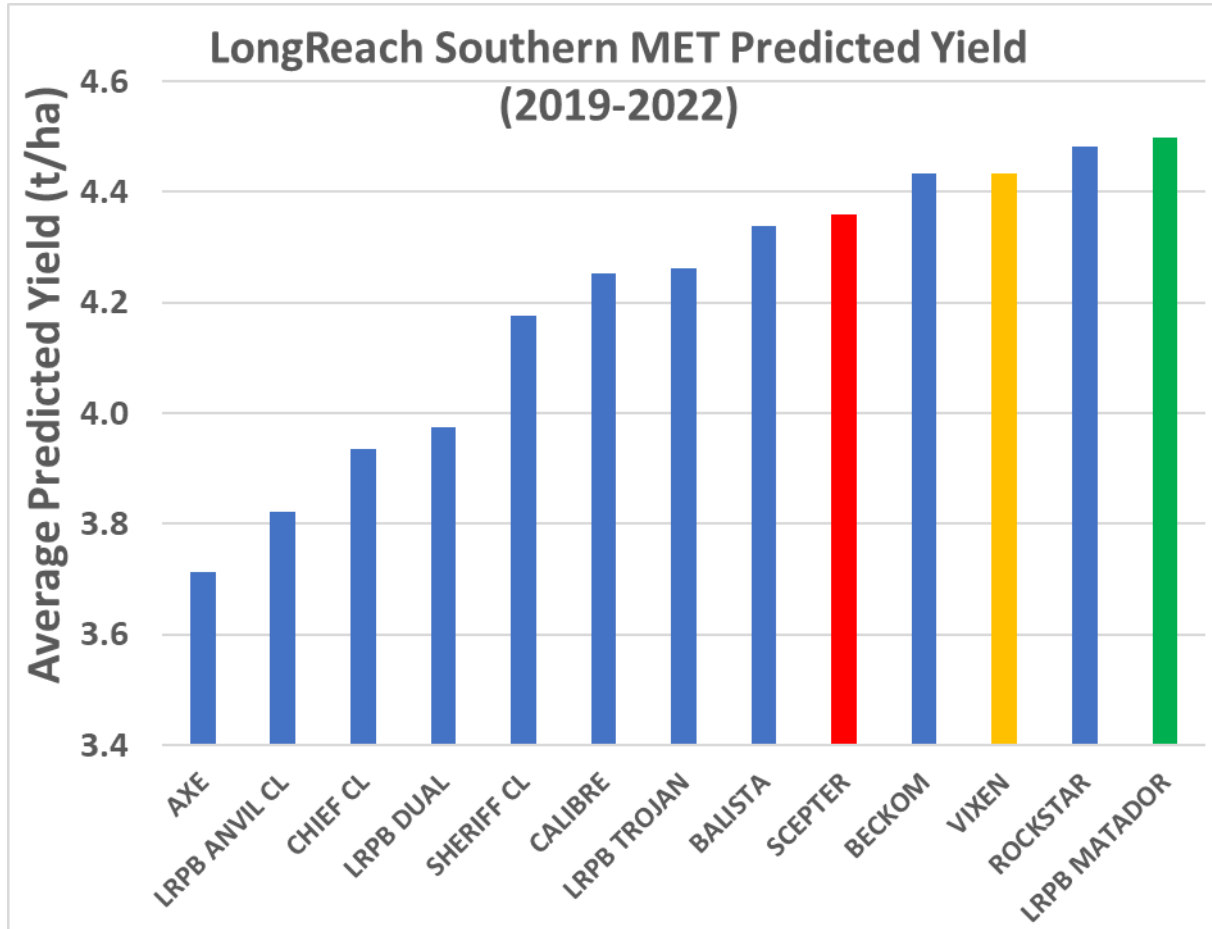
# LongReach Main Season MET Yield 2019-2021

- Beating Scepter and Vixen in SA and Vic LongReach trials consistently
- Yield prior to the high production 2022 season

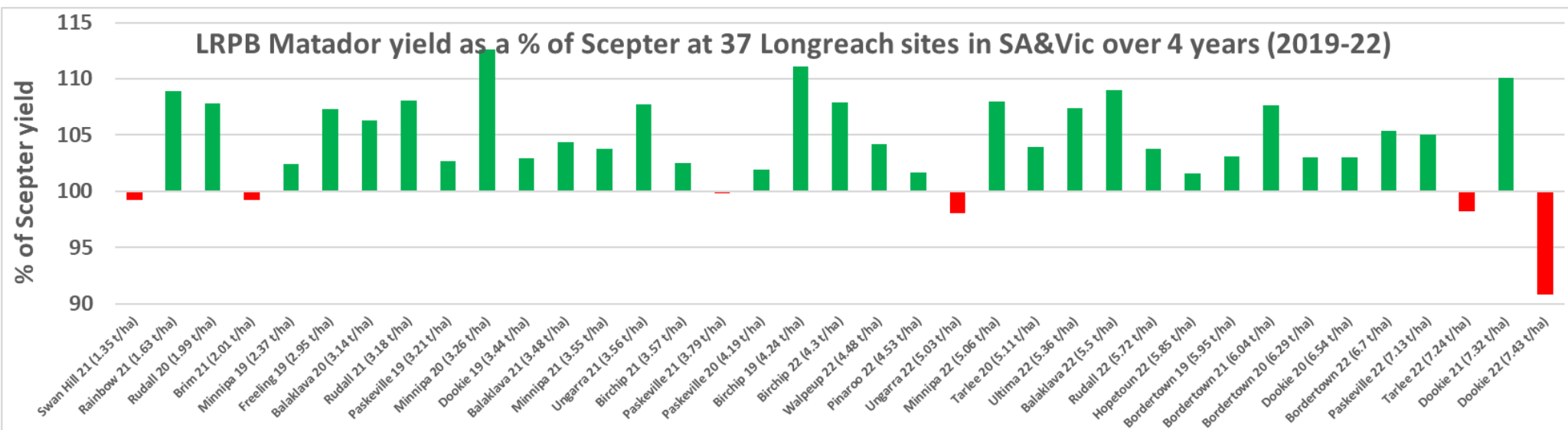


# LongReach Main Season MET Yield 2019-2022

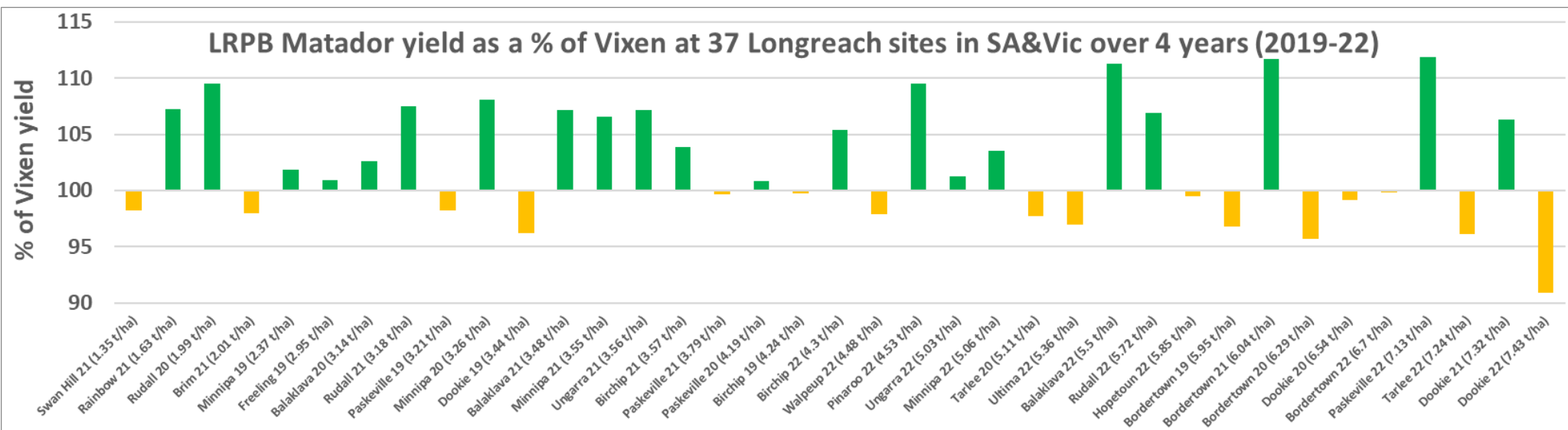
- Beating Scepter and Vixen in SA and Vic LongReach trials including 2022
- Higher yields with later varieties improving most



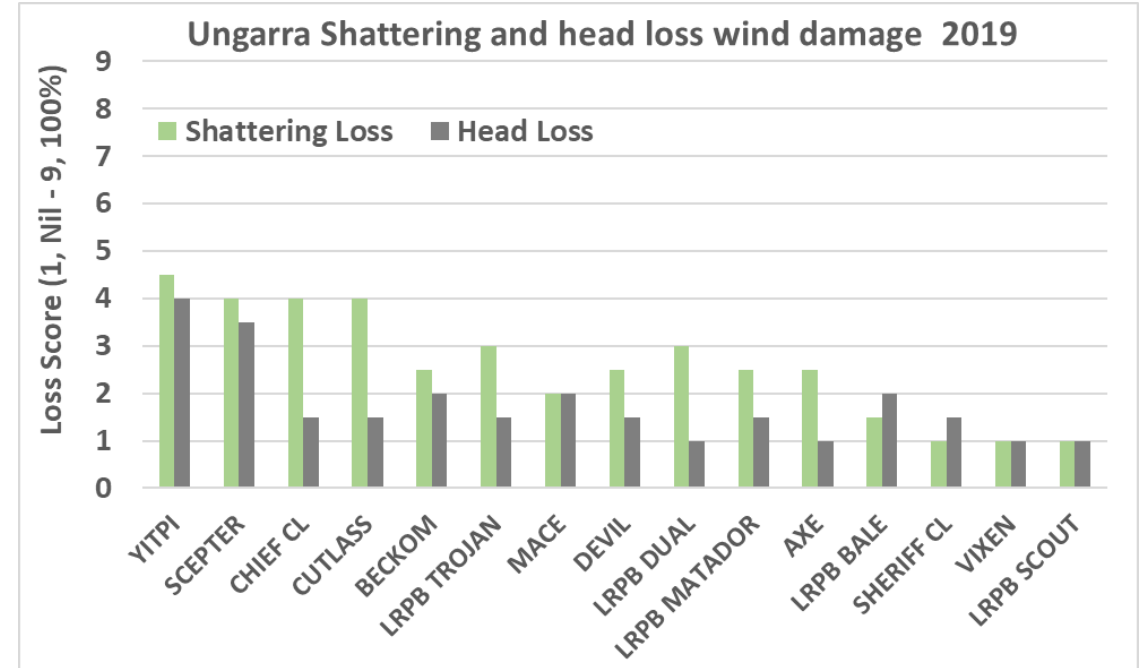
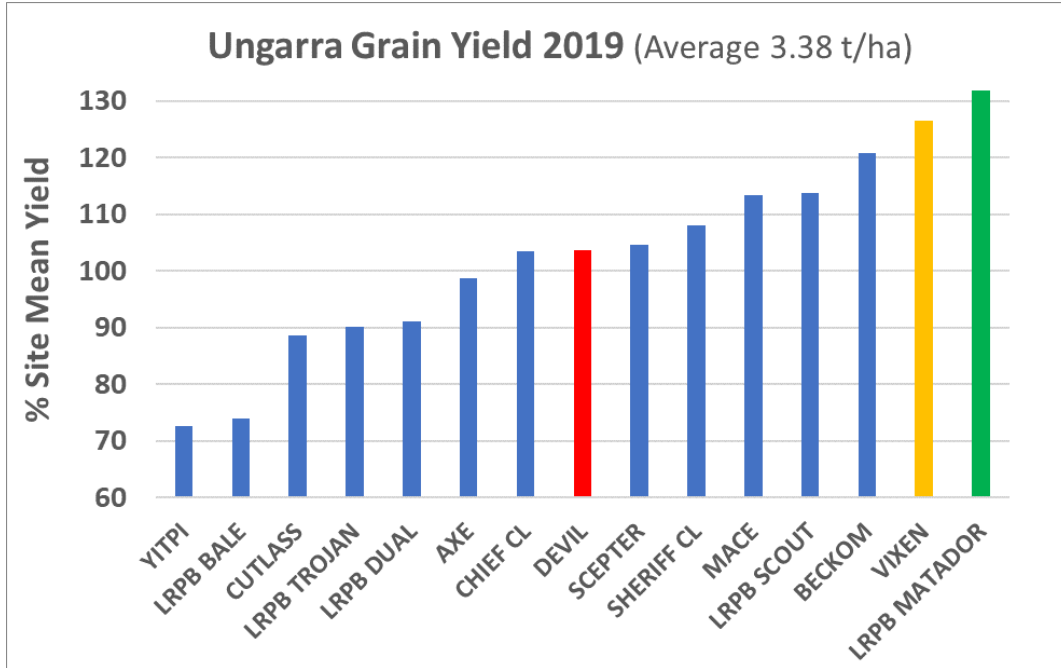
# LRPB Matador – Long Term high yield over 4 years testing



- In 37 LongReach trials over 4 years (2019-2022) LRPB Matador has consistently out yielded Scepter (84% of trials) and regularly outperformed Vixen (57% of trials)



# LRPB Matador– Agronomy (Surviving wind damage – Ungarra 2019)



Cummins, South Australia  
November 2019 Daily Weather Observations

Observations from Cummin Airport, about 2 km northwest of the town centre.

Date	Day	Temps		Rain	Evap	Sun	Max wind gust				9 am				3 pm						
		Day	Min				Max	Dir	Spd	Time	Temp	RH	Cld	Dir	Spd	MSLP	Temp	RH	Cld	Dir	Spd
		°C	°C	mm	mm	hours		km/h	local	°C	%	g/h		km/h	hPa	°C	%	g/h		km/h	hPa
1	Fr	14.6	23.2	0			W	43	14:07	18.5	53		ESE	13	1006.2	22.0	47		W	20	1005.6
2	Sa	9.3	23.7	4.8			WNW	43	12:05	16.4	100		N	13	1010.0	22.8	29		W	24	1009.2
3	Su	6.0	19.2	0			W	48	11:30	14.5	66		W	15	1016.7	17.7	42		WSW	30	1017.4
4	Mo	8.7	19.7	1.2			W	48	13:55	15.0	68		SW	20	1022.9	18.8	44		W	31	1023.6
5	Tu	3.8	23.9	0			W	56	14:08	14.1	65		N	20	1023.0	22.6	26		WNW	35	1018.3
6	We	5.4	19.8	0			W	63	13:46	15.8	65		W	28	1014.7	18.6	46		W	46	1013.9
7	Th	11.7	18.8	0.6				13.2	100				W	19	1014.5	17.3	62		W	43	1013.3
8	Fr	11.2	18.8				SW	63	00:31	12.4	79		SW	31	1017.3	16.8	43		SW	33	1020.1
9	Sa	4.7	20.7	0.2			WSW	39	14:52	13.3	54		W	20	1025.6	19.6	38		SSW	17	1023.5
10	Su	1.6	26.6	0			NW	44	14:42	14.3	69		NNE	4	1022.1	25.8	21		W	13	1016.2
11	Mo	10.4	37.7	0			W	83	15:29	25.8	18		N	28	1008.1	38.9	7		NNW	41	1002.7
12	Tu	10.0	19.1	0			SW	50	13:16	14.2	50		SW	24	1020.3	18.7	35		SW	31	1021.3
13	We	9.9	20.2	0.2			WSW	41	13:37	14.5	73		SW	19	1024.7	19.2	44		WSW	24	1023.7
14	Th	13.1	20.7	0.2			WSW	44	16:25	15.3	66		W	11	1021.7	19.9	51		WSW	22	1019.1
15	Fr	5.3	22.0	0			WSW	50	12:34	16.2	56		SW	19	1018.4	19.2	49		SSW	26	1016.7
16	Sa	8.5	23.0	0			SE	41	15:28	15.7	51		S	13	1022.4	23.3	36		SSE	24	1021.3
17	Su	2.6	25.4	0			SE	31	07:42	15.8	56		ESE	17	1024.2	24.4	28		NE	11	1021.3
18	Mo	7.6	34.4	0			NW	52	12:31	22.8	29		N	20	1016.7	33.5	11		WNW	31	1013.9
19	Tu	11.8	33.6	0			NE	35	22:13	19.5	64		SSE	15	1013.9	30.9	30		ENE	19	1011.0
20	We	19.4	44.4	0			NNW	87	13:27	33.6	10		N	28	1004.7	43.0	5		N	50	998.9
21	Th	15.3	23.1	0			WSW	61	02:38	17.6	71		SW	26	1011.4	21.7	44		SW	26	1013.5
22	Fr	3.5	22.7	0			WSW	39	14:27	15.0	58		WNW	7	1020.5	21.2	35		WSW	20	1016.3
23	Sa	5.9	23.9	0			W	37	13:24	16.4	72		SW	11	1022.5	23.2	40		WSW	24	1020.3
24	Su	2.0	29.9	0			WSW	44	15:16	17.1	59		NE	13	1018.0	28.8	17		NW	24	1012.5
25	Mo	15.8	27.4	0			SW	57	12:03	20.5	44		S	15	1007.2	23.0	44		SSW	39	1007.0
26	Tu	4.5	22.8	0			SSW	41	15:52	14.8	45		S	17	1019.3	22.3	30		SSW	17	1018.5
27	We	2.3		0				16.5	55				NNE	7	1017.5						

Statistics for the best 27 days of November 1999

Mean	8.348							17.0	99				17	1017.2	23.5	34			27	1018.6	
High	19.4	44.4	0					121	1001.7	16.8	5										
Lowest	1.6	25.4	0				NNW	87	33.6	10			SW	31	1025.6	43.0	5		N	50	992.3
Total	7.2																				

Statistics for the first 27 days of November 2019

Mean	8.3	24.8							17.0	59			17	1017.2	23.5	34				27	1015.5
Lowest	1.6	18.8	0						12.4	10			NNE	4	1004.7	16.8	5		NE	11	998.9
Highest	19.4	44.4	4.8						33.6	100			SW	31	1025.6	43.0	62		N	50	1023.7
			7.2																		

- Severe wind gusts over EP SA on 20th November 2019 caused major grain losses
- The LRPB trial was scored for head loss and shattering with LRPB Matador (4.5 t/ha) showing lower losses and out yielding Scepter (3.5 t/ha) by a tonne
- Vixen (4.3 t/ha) stood up well to wind and expanded rapidly in this area, but was still out yielded by LRPB Matador



LRPB Matador LHS (6.30 t/ha) vs Scepter RHS (5.88 t/ha) Bordertown, SA, 2021



LRPB Matador LHS (6.29 t/ha) vs Scepter RHS (5.97 t/ha) Diggora, SA, 2022



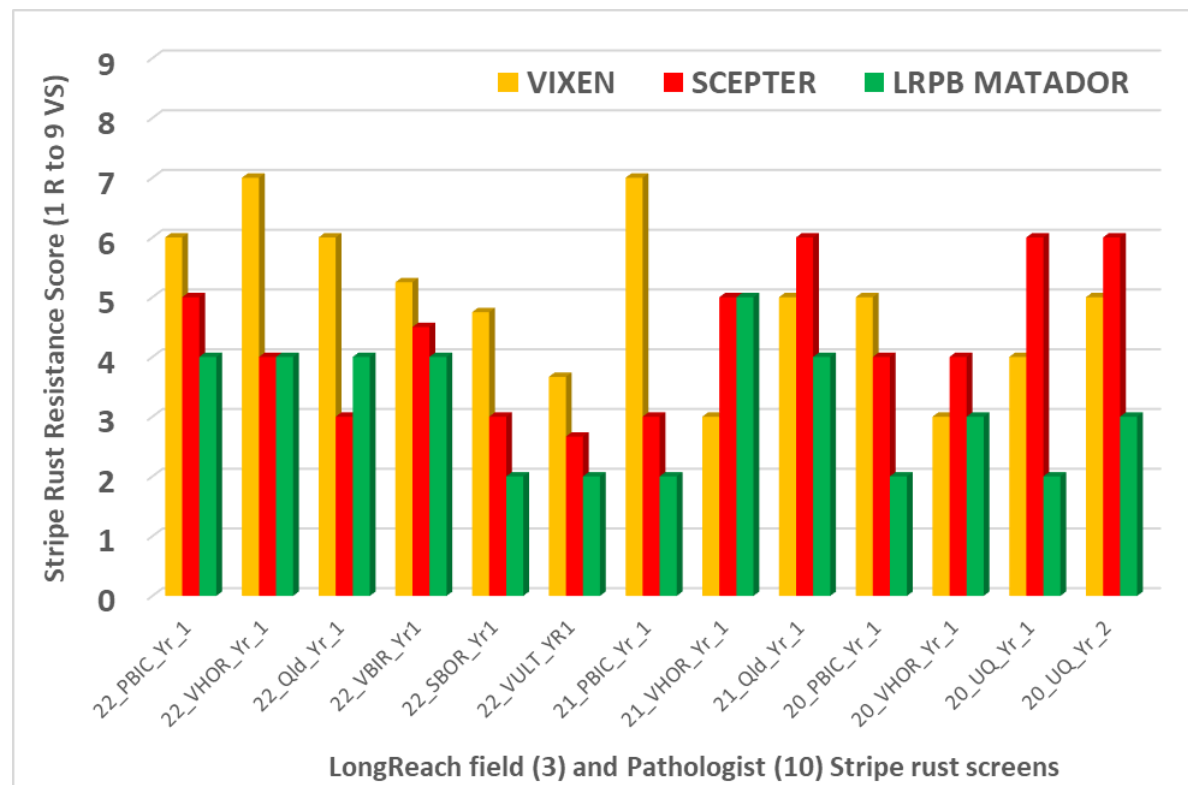
LRPB Matador LHS (3.44 t/ha) vs Scepter RHS (3.34 t/ha) Merrinee, SA, 2022



LRPB Matador LHS (5.16 t/ha) vs Scepter RHS (4.89 t/ha) Minnipa, SA, 2022

# Disease Ratings – LRPB Matador

LINE CODE	SOURCE	Lr	Sr	Yr	Stb	YLS	CCN	PM	QUALITY
BALISTA	NVT Rating	S	MR	MSS	SVS	MS	MRMS	SVS	AH
BRUMBY	NVT Rating	SVS	MR	MS	S	MRMS	MRMS	R/S	APW
CALIBRE	NVT Rating	S	MR	S	S	MRMS	MRMS	S	AH
HAMMER CL PLUS	NVT Rating	S	MR	MS	MSS	MRMS	MRMS	S	AH
LRPB ANVIL CL PLUS	NVT Rating	SVS	MR	S	VS	MSS	MRMS	VS	AH
LRPB TROJAN	NVT Rating	MR	MRMS	S	S	MSS	MS	S	APW
RAZOR CL PLUS	NVT Rating	S	MRMS	MS	SVS	MSS	MR	S	ASW
ROCKSTAR	NVT Rating	S	MRMS	S	S	MRMS	MSS	SVS	AH
SCEPTER	NVT Rating	MSS	MRMS	MSS	S	MRMS	MRMS	SVS	AH
SHERIFF CL PLUS	NVT Rating	SVS	MS	S	S	MRMS	MS	SVS	APW
VIXEN	NVT Rating	SVS	MRMS	SVS	S	MRMS	MSS	SVS	AH
LRPB MATADOR	LongReach	MSSp	MSp	MSp	Sp	MRMSP	-	MSp	AH



## Comments

- Stripe Rust for LRPB Matador has been rated MSp (LongReach and NVT rating) as we have consistently seen a better rating in screens than Scepter (MSS) or Vixen (SVS) with extra APR genes on top of the Scepter reaction type to support fungicides in the paddock
- NVT Powdery rating for LRPB Matador (MSp) shows similar level of partial resistance we have seen be effective in reducing the PM pressure in the lower canopy and support fungicide treatments to contain the disease. While its not a complete major gene resistance it is a considerable improvement on the rating of Scepter, Vixen and Rockstar (all SVS) with “removal of the suckers” being promoted by pathologists to manage PM.

# Grain Quality AH for SA and VIC

Grain quality summary for 7 SA/Vic LPB Main Season S2M trials (2019)

Variety	Test Weight (kg/hl)			Protein (%)			Screenings %			Grain Size (g/1000)		
	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
AXE	84.5	86.0	82.5	12.1	13.3	10.1	1.5	5.0	0.2	37.5	43.6	29.8
BECKOM	85.1	87.1	81.9	11.9	14.1	9.9	3.2	13.1	0.0	31.0	37.1	24.0
LRPB MATADOR	84.8	86.6	82.3	11.2	13.8	8.0	3.3	9.6	0.1	35.7	44.5	26.4
LRPB TROJAN	85.3	87.8	82.1	12.3	15.7	9.8	1.8	7.8	0.1	36.9	44.5	26.8
MACE	85.7	86.9	84.0	11.4	13.8	9.4	1.5	4.9	0.0	38.0	43.7	30.2
YITPI	84.5	86.6	81.5	13.3	17.0	10.5	2.6	9.9	0.2	36.1	44.9	26.2

Grain quality summary for 3 SA/Vic LPB Main Season EM trials (2020)

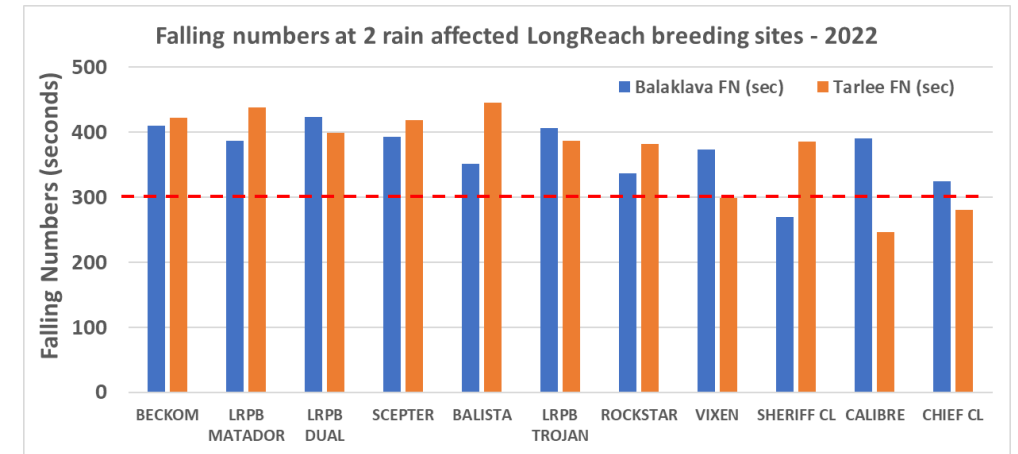
Variety	Test Weight (kg/hl)			Protein (%)			Screenings %			Grain Size (g/1000)		
	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
BECKOM	85.4	86.7	82.9	11.9	13.2	10.9	0.7	1.3	0.4	37.1	38.4	34.5
LRPB MATADOR	86.0	87.0	84.4	11.5	11.8	10.9	0.7	1.3	0.4	40.6	43.4	35.7
LRPB TROJAN	86.8	87.7	85.1	12.3	13.3	11.4	0.4	0.5	0.2	42.9	48.1	39.2
MACE	86.0	87.5	83.8	12.0	12.6	11.3	0.3	0.4	0.3	42.6	44.4	41.5
ROCKSTAR	86.3	87.5	84.4	11.0	11.8	10.3	0.8	1.4	0.4	47.8	51.6	45.0
SCEPTER	87.0	88.1	85.2	11.5	12.1	10.9	0.7	1.1	0.4	46.0	47.1	44.0
VIXEN	84.5	85.6	83.0	12.0	12.2	11.8	0.5	0.6	0.3	43.8	48.2	40.0
YITPI	86.0	86.8	84.8	12.6	13.7	11.8	0.9	1.0	0.6	41.6	44.7	38.9

Grain quality summary for 4 SA/Vic LPB Main Season EM trials (2021)

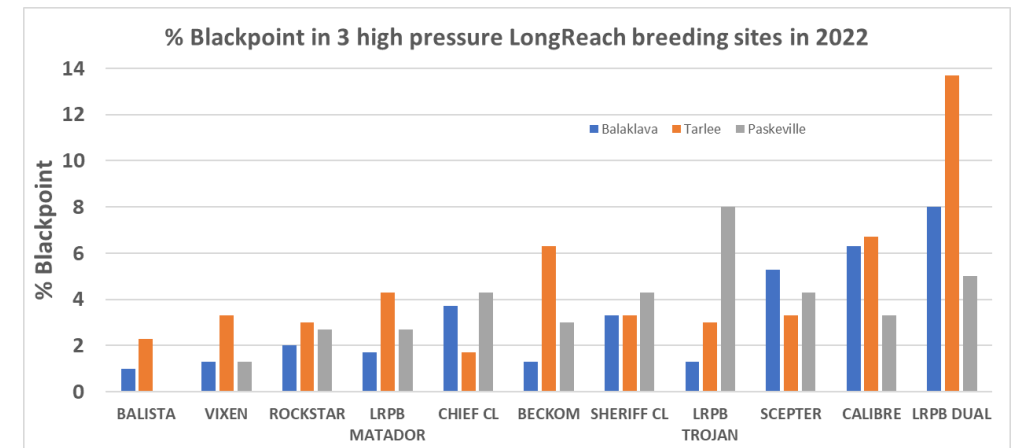
Variety	Test Weight (kg/hl)			Protein (%)			Screenings %			Grain Size (g/1000)		
	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
BALISTA	85.1	88.2	78.8	10.5	11.4	9.5	1.3	3.0	0.2	46.2	52.3	42.1
BECKOM	84.9	88.5	80.1	11.9	12.4	11.0	1.1	2.0	0.3	36.4	37.4	35.7
LRPB MATADOR	86.1	88.4	80.5	10.7	11.0	10.2	1.3	2.8	0.7	42.7	46.8	39.6
LRPB TROJAN	85.8	89.1	80.7	12.0	13.5	10.7	0.8	1.2	0.4	43.2	46.3	40.9
MACE	85.8	87.4	81.5	11.6	12.3	10.8	0.6	0.9	0.3	43.2	46.8	40.6
ROCKSTAR	84.8	87.9	80.4	10.6	11.3	9.8	1.1	1.9	0.1	46.9	50.8	44.3
SCEPTER	86.1	89.3	79.4	10.8	11.3	10.2	0.9	1.4	0.5	45.6	49.2	40.8
VIXEN	84.4	88.9	78.3	11.3	12.2	10.4	0.9	1.9	0.1	44.2	49.5	40.3

Grain quality summary for 3 SA/Vic LPB Main Season EM trials (2022)

Variety	Test Weight (kg/hl)			Protein (%)			Screenings %			Grain Size (g/1000)		
	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min	Ave	Max	Min
BALISTA	83.2	85.3	80.0	10.3	11.6	8.8	0.9	1.0	0.8	49.8	52.7	44.7
BECKOM	83.8	85.8	80.0	10.8	11.7	9.5	1.8	3.7	0.6	35.4	38.7	29.5
CALIBRE	82.2	85.1	76.9	11.3	13.2	9.5	0.8	1.0	0.6	47.2	52.5	40.4
LRPB MATADOR	83.7	86.7	79.2	11.3	13.4	9.8	0.7	0.8	0.6	44.3	48.6	38.9
LRPB TROJAN	83.5	87.6	76.9	11.2	12.7	9.4	0.8	1.4	0.4	44.9	48.6	37.9
ROCKSTAR	82.4	85.3	78.0	10.8	13.0	9.0	0.9	1.2	0.6	47.1	53.0	40.7
SCEPTER	85.3	87.2	82.2	11.3	12.9	9.3	0.9	1.2	0.8	48.2	53.2	39.6
VIXEN	81.9	84.6	77.9	11.7	12.6	10.9	1.5	2.3	1.0	42.7	49.3	37.0



- AH Classification (Southern Zone – SA/Vic)
- Medium grain size with sound screenings and good test weight
- Solid Blackpoint tolerance (MS) and Falling Number tolerance at sites with rain at harvest



# LRPB Matador Mid Spring high yield Scepter type with improved canopy and disease resistance

LRPB Matador is available in limited quantities through our Associate Network, for contact information please go to [www.pacificseeds.com.au](http://www.pacificseeds.com.au)

The information provided in this publication is intended as a guide only. Advanta Seeds Pty Ltd ('Advanta Seeds') (including its officers, employees, contractors and agents) can not guarantee that every statement is without flaw of any kind. While Advanta Seeds has taken all due care to ensure that the information provided is accurate at the time of publication, various factors, including planting times and environmental conditions may alter the characteristics and performance from plants. Advanta Seeds shall not be liable for any errors or omissions in the information or for any loss, injury, damage or other consequence whatsoever that you or any person might incur as a result of your use of or reliance upon the products (whether Advanta Seeds products or otherwise) and information which appear in this publication. To the maximum extent permitted by law, the liability of Advanta Seeds for any claim whatsoever arising out of the supply or use of or reliance upon the products and information in this publication (including liability for breach of any condition or warranty implied by the Trade Practices Act 1974 or any other law) is limited at its discretion, to the replacement of the products, the supply of equivalent products or the resupply of the publication. For application to specific conditions, seek further advice from a local professional. © Advanta Seeds 2023.