

LRPB VORTEX

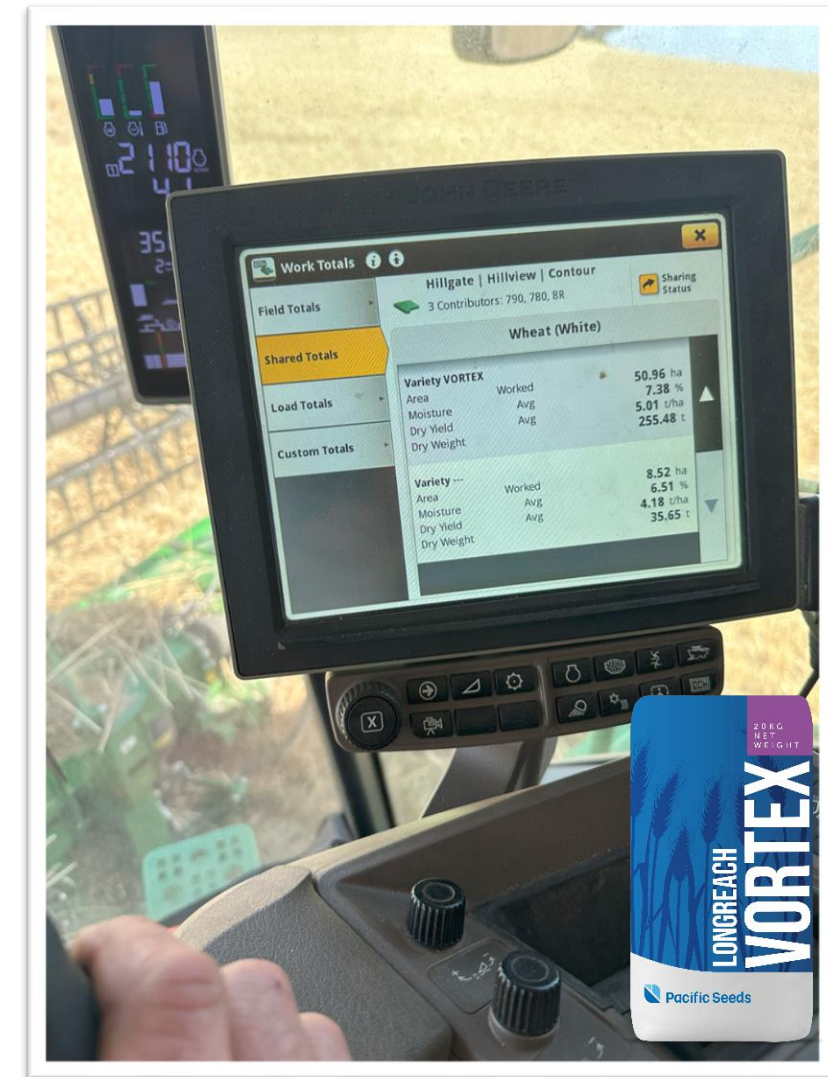
The new mid spring wheat with serious
top end yield for WA growers



WHEAT

LRPB VORTEX Delivering Yield for WA Farmers

- Out yielding Scepter by 4% in WA single site NVT trials in 2024 & Scepter by 3% in WA long term NVT MET from 2020 - 2024
- Mid Spring maturity similar to Scepter
- Strong disease package for WA Growers
Yellow Leaf Spot (MRMS)
Powdery Mildew (MS)
- Robust Grain Receivals
- APW Quality Classification, potential APW(N) classification in 2026



LRPB VORTEX Variety Background

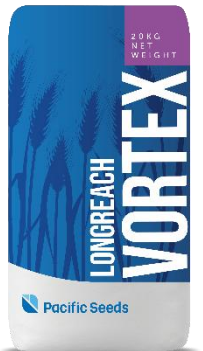
- Developed for regional WA using the parental building blocks from LRPB Cobra and a breeding line containing improved disease resistance with a strong receivals grain package
- Unmatched top end yield by becoming the first variety to surpass 8.0t/ha in the GRDC NVT trialling system in WA
- Tested as LPB18-3055 from 2022 in the NVT trials



LRPB VORTEX NVT Main Season MET Predicted Yield (All Agzones 2020-2024)

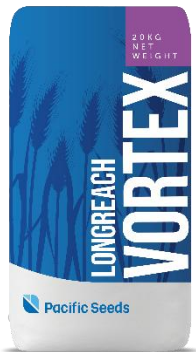
- LRPB Vortex has yield advantage over Scepter in >2.5 t/ha environments
- LRPB Vortex has a yield advantage over all commercial varieties from >3.5 t/ha environments

	Yield Group	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
	Mean Yield	0.77 t/ha	1.31 t/ha	1.77 t/ha	2.24 t/ha	2.81 t/ha	3.26 t/ha	3.77 t/ha	4.22 t/ha	4.76 t/ha	5.22 t/ha	5.68 t/ha	6.31 t/ha	6.58 t/ha	7.00 t/ha
Variety	Trials	8	9	15	18	17	32	25	26	22	20	11	4	3	1
LRPB Vortex	131	104	106	107	111	111	110	113	111	111	113	114	113	114	110
Tomahawk CL Plus	131	122	116	115	115	112	111	111	109	110	109	107	107	110	108
Rottnest	46		109	108	107	108	108	110	110	110	110	109	109	110	
Shotgun	67	113	112	110	109	109	109	110	109	109	109	108	108	110	
Brumby	168	106	108	108	108	108	108	109	109	108	109	108	108	109	107
Thumper	86	103	106	105	105	106	107	109	109	108	110	109	110	110	
Calibre	211	121	114	112	110	109	108	108	107	107	107	105	105	108	107
Devil	211	108	109	108	108	108	107	108	107	108	108	107	107	108	106
Vixen	211	132	117	116	116	112	109	107	104	106	105	103	102	107	107
RockStar	211	90	101	101	103	105	106	108	109	108	109	110	110	109	105
Scepter	211	112	110	109	109	108	107	107	106	107	106	105	104	107	105



LRPB VORTEX NVT Main Season MET Predicted Yield (All Agzones 2020-2024)

- Long term yield MET shows LRPB Vortex as the highest yielding commercial line currently tested in WA NVT trials from 2020-2024
- Long term yield MET shows LRPB Vortex had a yield range from 1-7% over Scepter from 2020-2024



	Group	2020	2021	2022	2023	2024
	Mean Yield	2.86 t/ha	4.38 t/ha	4.70 t/ha	2.49 t/ha	3.67 t/ha
Variety	Trials	43	37	45	40	46
LRPB Vortex	131			112	109	110
Tomahawk CL Plus	131			108	113	110
Rottnest	46					109
Shotgun	67				110	108
Brumby	168		108	109	108	108
Thumper	86				107	107
Calibre	211	109	107	107	110	107
Devil	211	108	107	108	108	107
Vixen	211	110	109	103	112	107
RockStar	211	105	107	110	104	107
Scepter	211	107	107	105	108	107

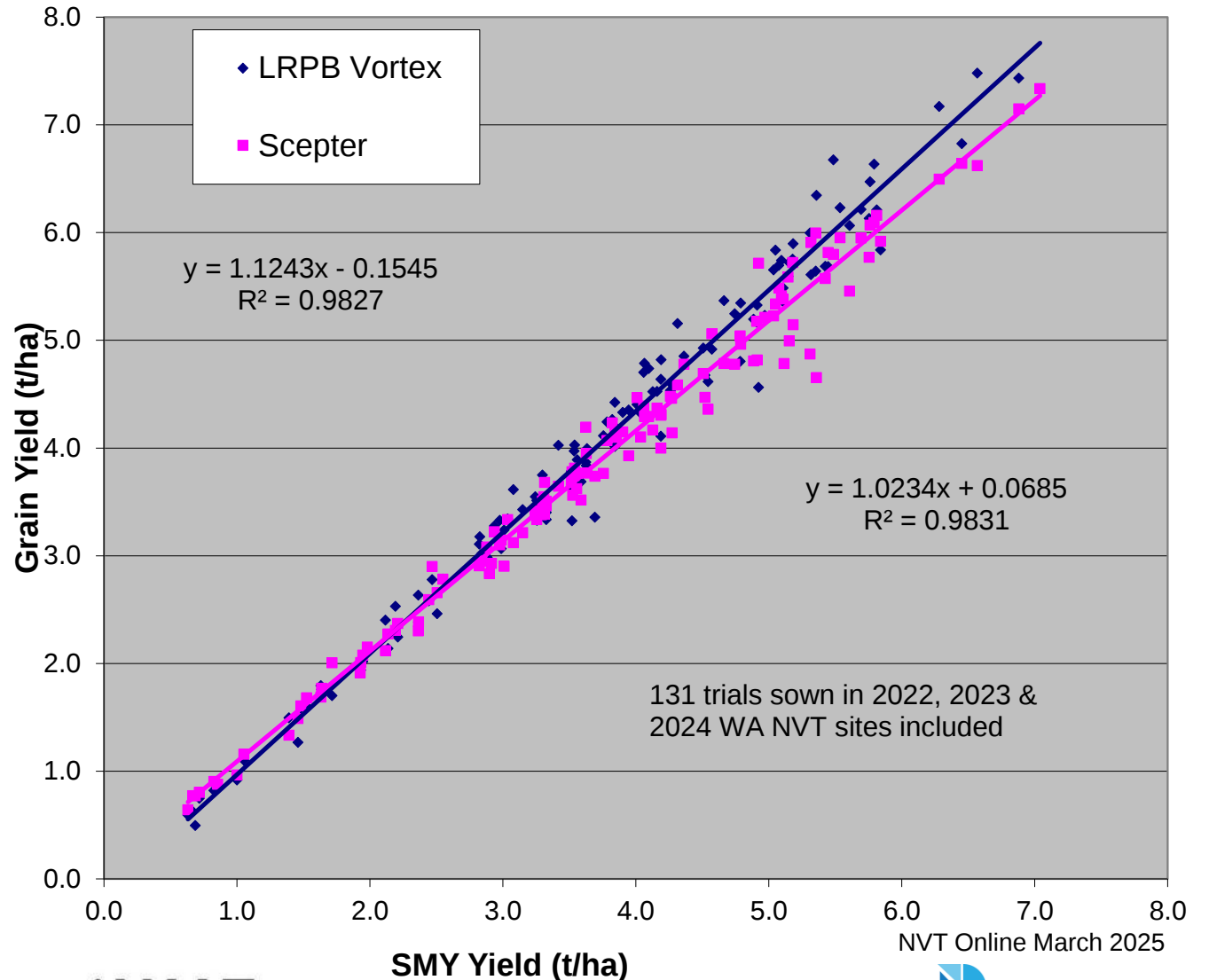
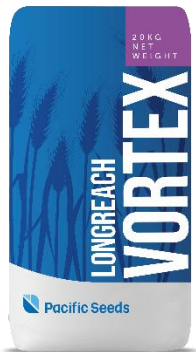
NVT Online March 2025

NVT

Pacific Seeds
Growing possibilities

LRPB VORTEX vs Scepter Yield Regression

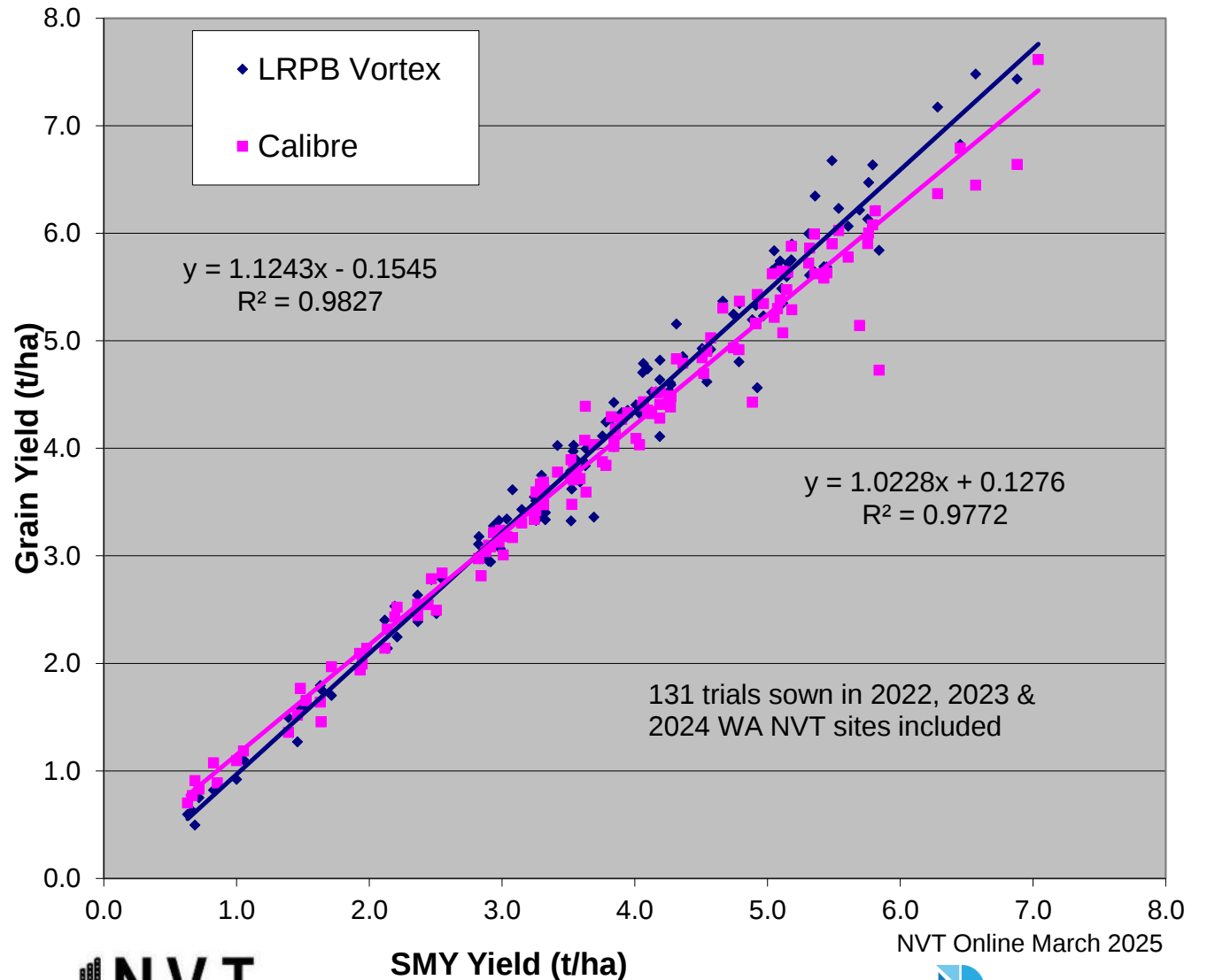
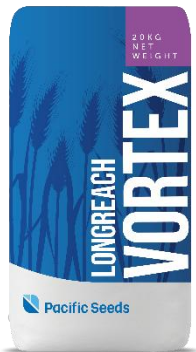
- LRPB Vortex shows unmatched top end yield at Goomaling WA NVT in 2022 of 8.19 t/ha
- Out yields Scepter from 2.2 t/ha environments and above



NVT

LRPB VORTEX vs Calibre Yield Regression

- Maintains yield advantage over Calibre from 2.7 t/ha environments and above

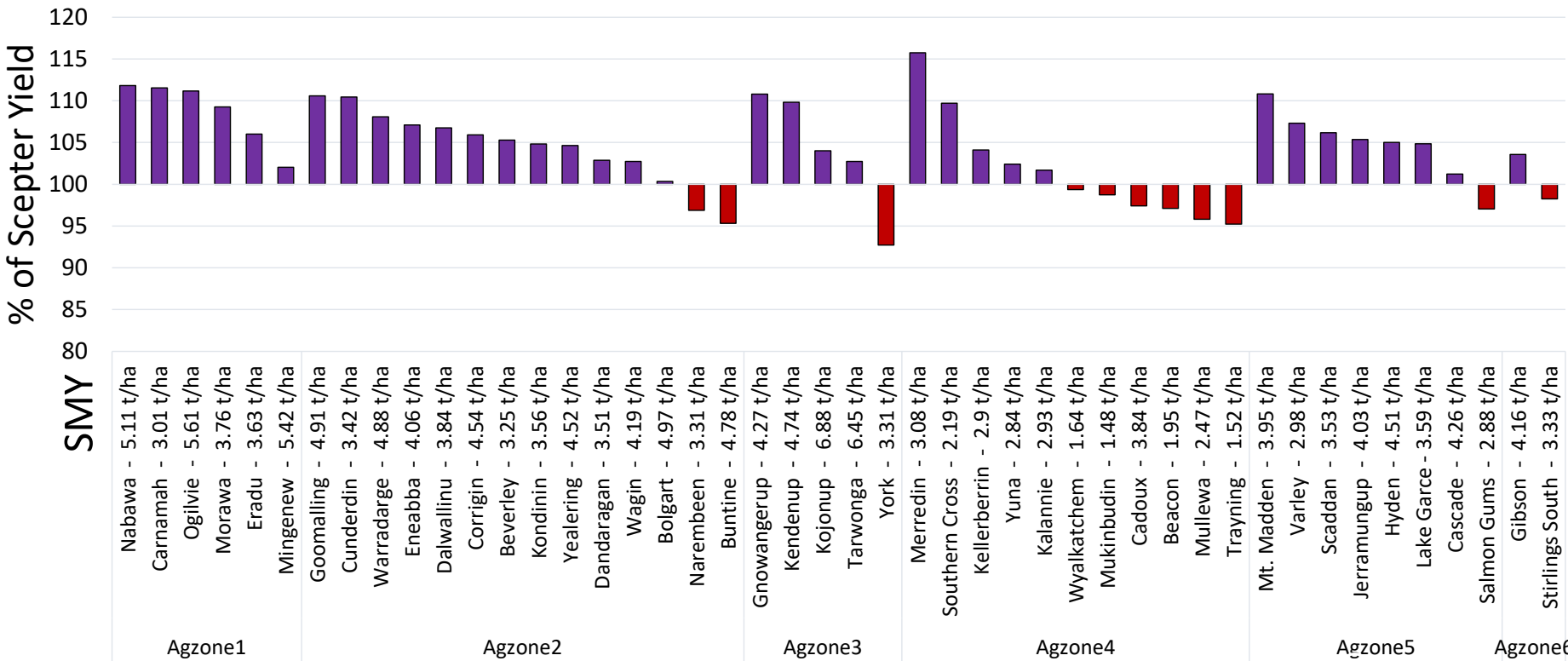


LRPB VORTEX Relative Yield WA NVT to Scepter (All Agzones 2024)

- LRPB Vortex shows yield advantage over Scepter in Agzone 1, 2, 3, & 5
- LRPB Vortex shares Agzone 4 with Scepter however when LRPB Vortex out performs Scepter it does so by a significantly larger margin
- LRPB Vortex shares Agzone 6 with Scepter



LRPB VORTEX yield as a % of Scepter at 46 NVT sites 2024



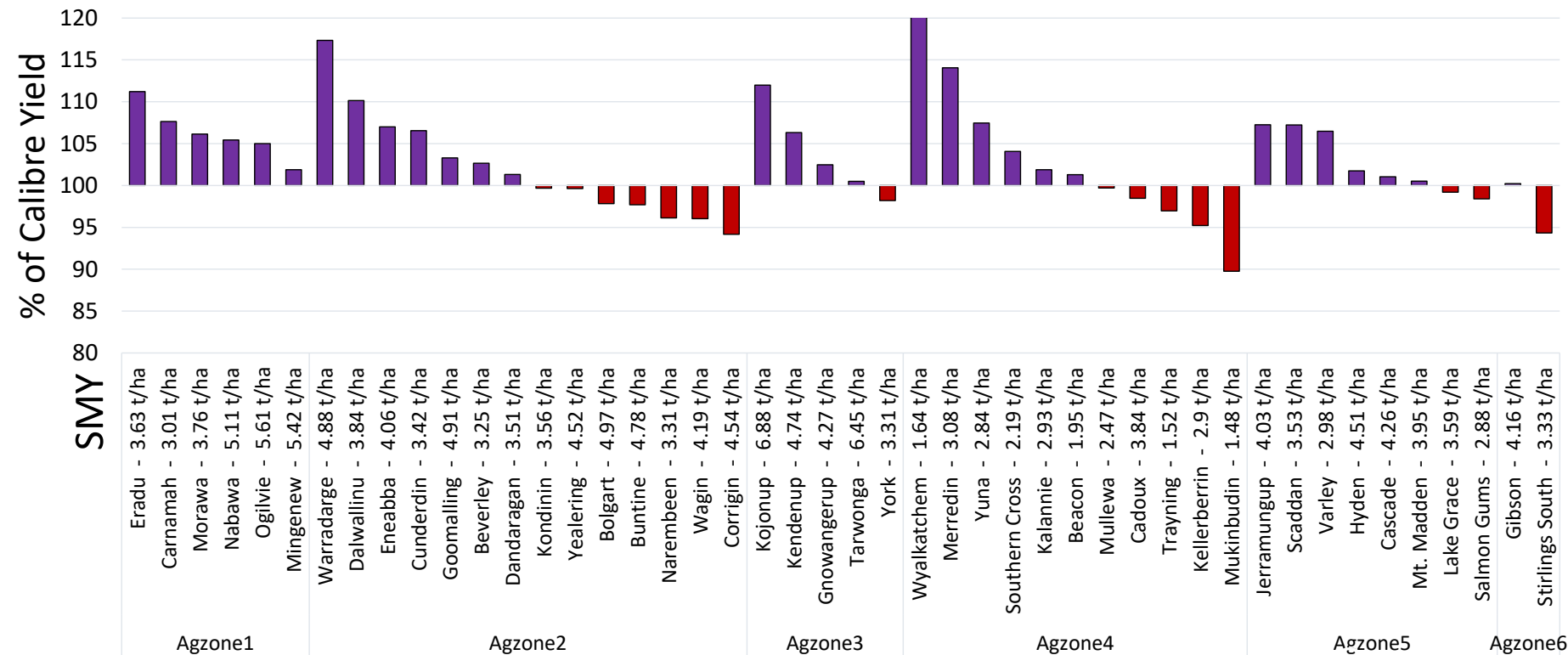
NVT Online March 2025



LRPB VORTEX Relative Yield WA NVT to Calibre (All Agzones 2024)

- LRPB Vortex shows yield advantage over Calibre in Agzone 1, 3 & 5
- LRPB Vortex shares Agzone 2 & 4 with Calibre however when LRPB Vortex out performs Calibre it does so by a significantly larger margin
- LRPB Vortex shares Agzone 6 with Calibre

LRPB VORTEX yield as a % of Calibre at 46 NVT sites 2024



NVT Online March 2025



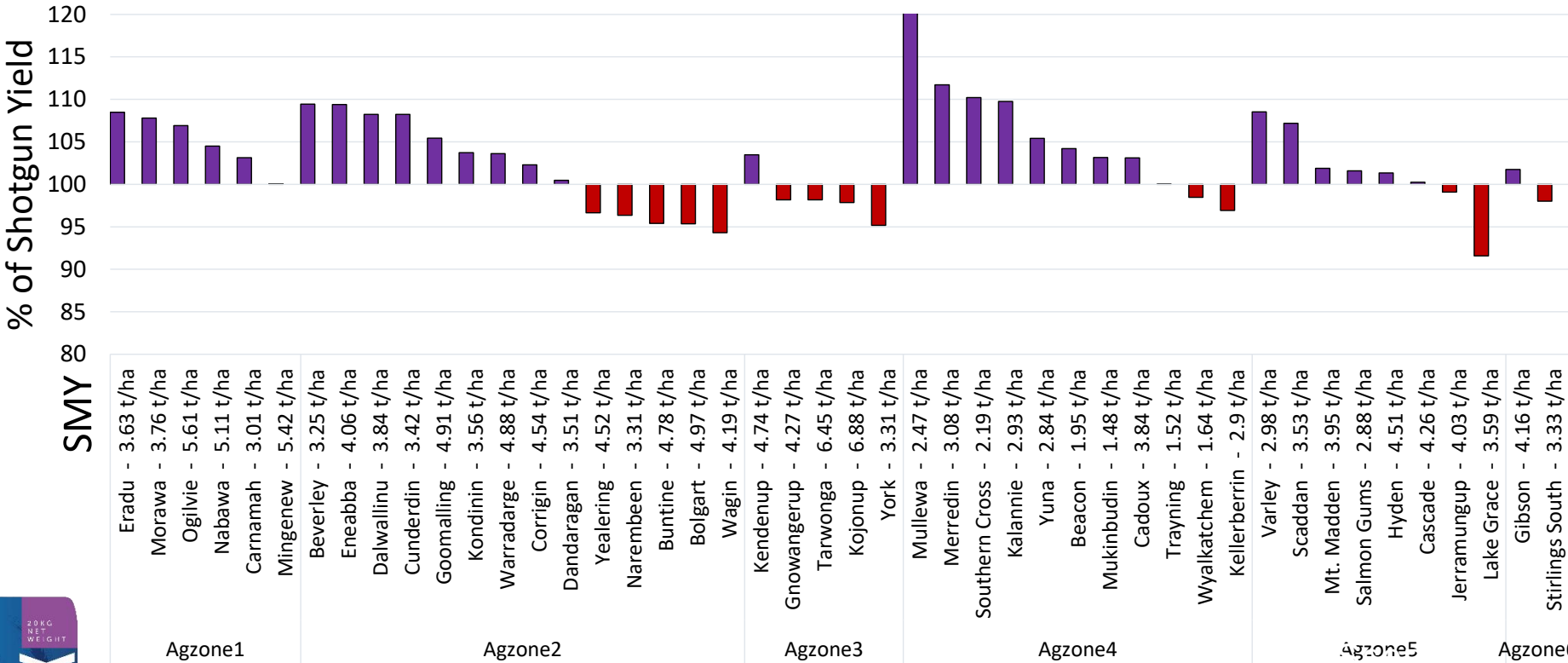
NVT

LRPB VORTEX Relative Yield WA NVT to Shotgun (All Agzones 2024)

- LRPB Vortex shows yield advantage over Shotgun in Agzone 1, 4 & 5
- LRPB Vortex shares Agzone 2 with Shotgun however when LRPB Vortex outperforms Shotgun it does so by a significantly larger margin
- LRPB Vortex shares Agzone 6 with Shotgun
- LRPB Vortex chasing Shotgun in Agzone 3



LRPB VORTEX yield as a % of Shotgun at 46 NVT sites 2024



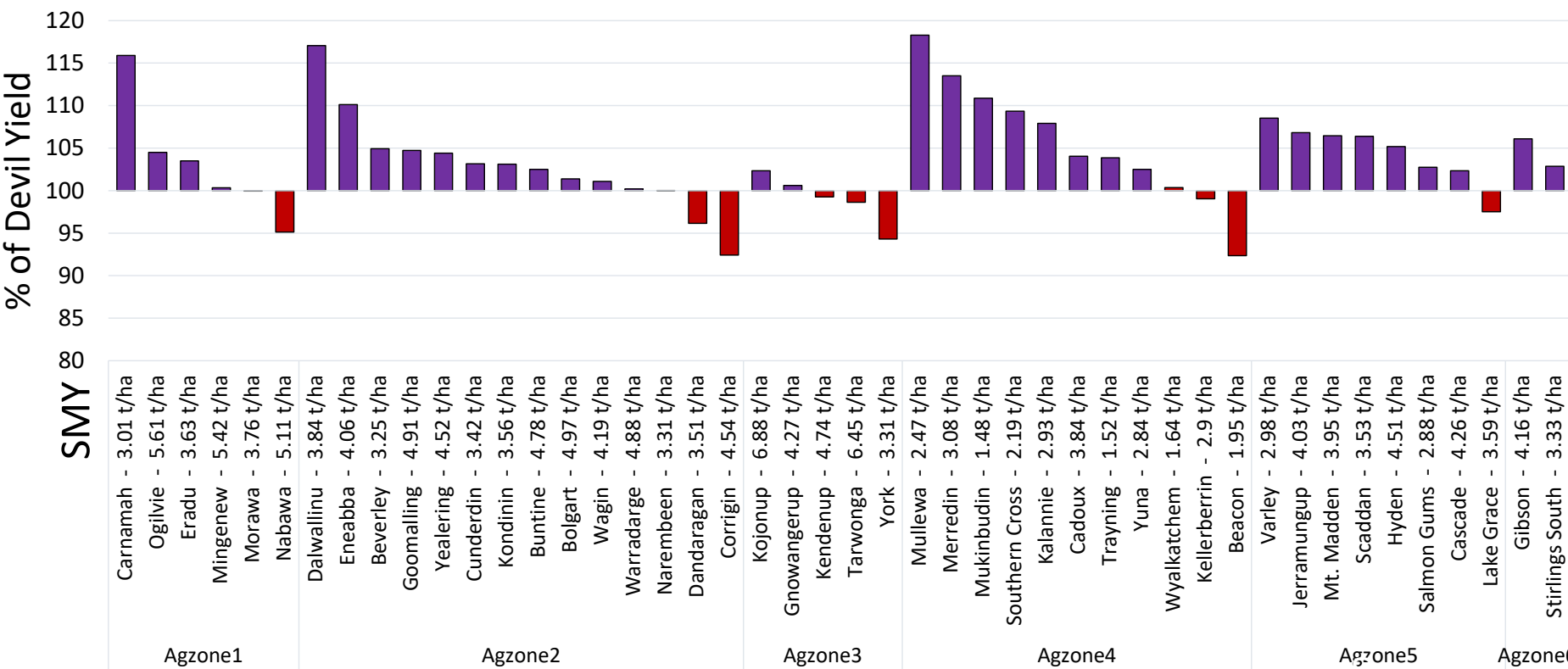
NVT Online March 2025



LRPB VORTEX Relative Yield WA NVT to Devil (All Agzones 2024)

- LRPB Vortex shows yield advantage over Devil in Agzone 1, 2, 4, 5 & 6
- LRPB Vortex chasing Devil in Agzone 3

LRPB Vortex yield as a % of Devil at 46 NVT sites 2024

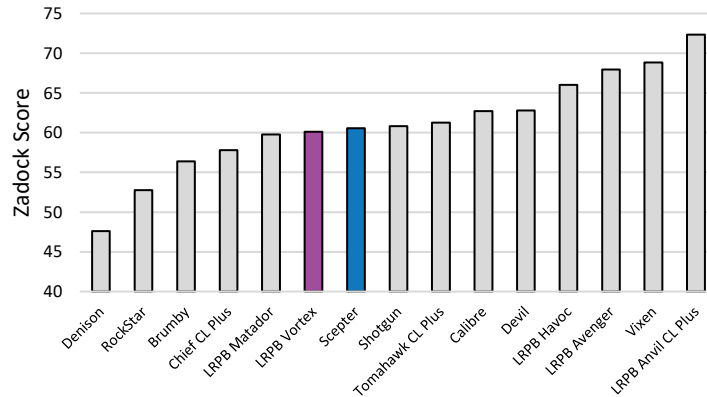


NVT Online March 2025

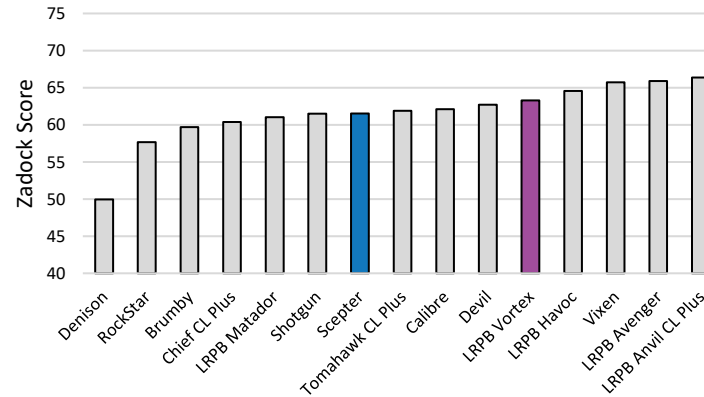


LRPB VORTEX Maturity – WA NVT Trials (All Agzones 2024)

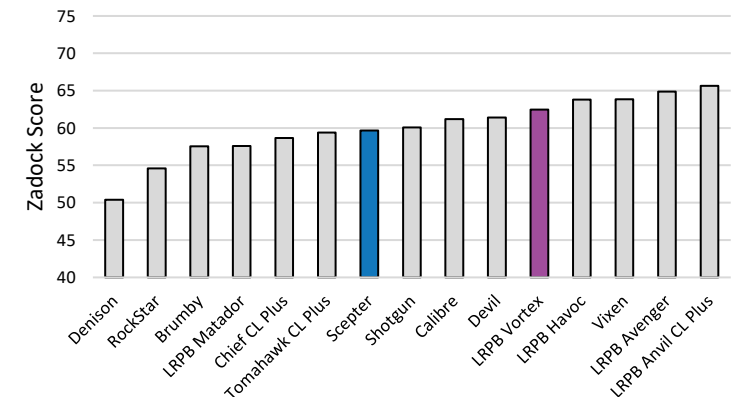
Average (3 rep) Zadock Score taken from Agzone1 Trials (6 sites) - WA NVT Trials 2024



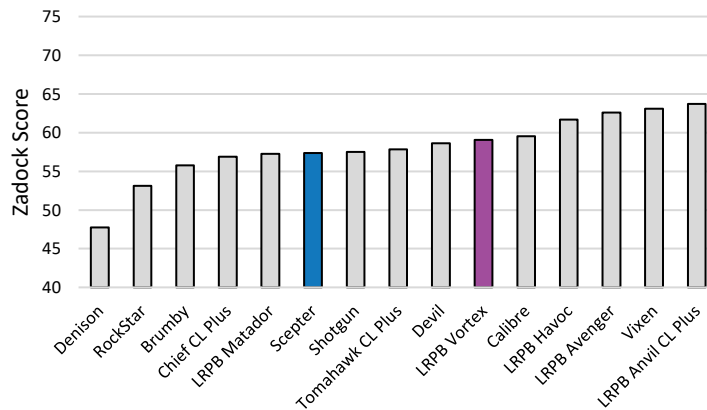
Average (3 rep) Zadock Score taken from Agzone2 Trials (12 sites) - WA NVT Trials 2024



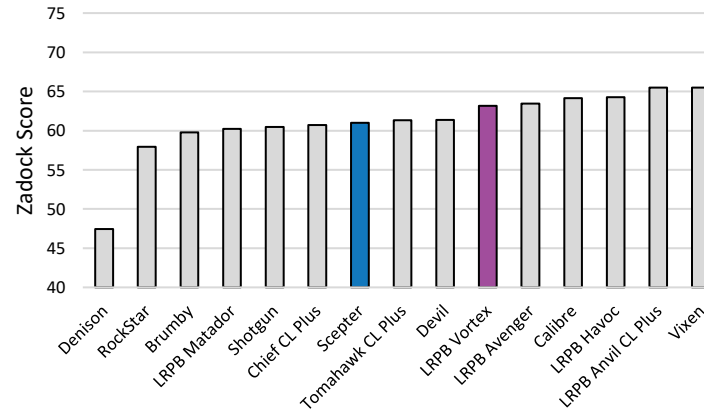
Average (3 rep) Zadock Score taken from Agzone3 Trials (5 sites) - WA NVT Trials 2024



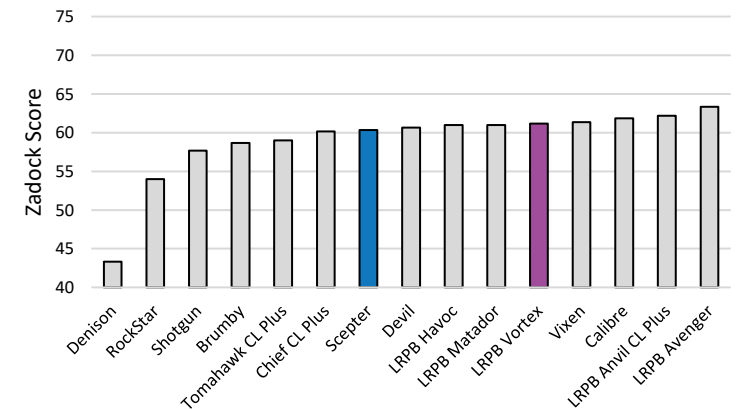
Average (3 rep) Zadock Score taken from Agzone4 Trials (11 sites) - WA NVT Trials 2024



Average (3 rep) Zadock Score taken from Agzone5 Trials (5 sites) - WA NVT Trials 2024



Average (3 rep) Zadock Score taken from Agzone6 Trials (2 sites) - WA NVT Trials 2024



LRPB VORTEX Maturity



LRPB
Vortex
← (LHS)

Vs

Scepter
(RHS) →



Maturity of LRPB Vortex at the Mingenew main season NVT trial on the 04 September 2024 with a Zadocks score of 63

Maturity of Scepter at the Mingenew main season NVT trial on the 04 September 2024 with a Zadocks score of 61

LRPB VORTEX Maturity



LRPB
Vortex

← (LHS)

Vs

Calibre
(RHS) →



Maturity of LRPB Vortex at the Mingenew main season NVT trial on the 04 September 2024 with a Zadocks score of 63

Maturity of Calibre at the Mingenew main season NVT trial on the 04 September 2024 with a Zadocks score of 63

LRPB VORTEX Maturity



LRPB
Vortex
← (LHS)

Vs

Rockstar
(RHS) →



Maturity of LRPB Vortex at the Mingenew main season NVT trial on the 04 September 2024 with a Zadocks score of 63

Maturity of Rockstar at the Mingenew main season NVT trial on the 04 September 2024 with a Zadocks score of 50

LRPB VORTEX Abiotic Testing

LongReach internal replicated lab assay data for Boron, Acid, Aluminium and Alkaline tolerance presented as extrapolated ratings for LRPB VORTEX and four relevant controls

ABOTIC STRESS RATING	LRPB VORTEX	CALIBRE ^p	SCEPTER ^p	ROCKSTA ^p	VIXEN ^p
Acid pH 4.2 RRL (%)	T	T	MT	T	MT
Aluminium Tolerance pH 4.2 Al-RRL (%)	MT	MI	MT	MI	MI
Boron Tolerance Bo-RRL (%)	MI	MT	T	MI	MI
Alkaline Tolerance pH 9.5 RRL (%)	MT	MT	MI	MT	MI

*LRPB interpretations of internal data - For Acid, Al, Bo and Alkaline: MI = Moderately intolerant 25-50%; MT= Moderately Tolerant 50-75% T= Tolerant >75%; For Alkaline- MI = Moderately intolerant 11-15%; MT = Moderately Tolerant >15%



LRPB VORTEX WA NVT Disease Ratings 2025

- A disease package suited to wheat on wheat (MRMS) yellow spot resistance
- Strong Stripe rust (RMR) resistance against the WA pathotype
- Stem rust (MRMS) resistance rating, similar to new releases Scepter & Calibre
- Weak for Leaf rust (SVS) like most varieties currently grown in WA (Comment: *LRPB Rating)
- Good Powdery Mildew (MS) rating against the WA pathotype

Variety	Classification	NVT Main Season Disease Ratings 2025				
		Leaf Rust	Stem Rust	Stripe Rust	Powdery Mildew	Yellow Spot
		Lr	Sr	Yr WA	PM WA	YS
LRPB VORTEX	APW	SVS*	MRMS	RMR	MS	MRMS
Calibre	AH	S	MR	RMR	MSS	MRMS
Chief CL Plus	APW(n)	MR	MR	S	S	MRMS
LRPB Anvil CL Plus	AH	SVS	MR	RMR	S	MSS
LRPB Avenger	APW(n)	SVS	MS	MR	S	MS
Rockstar	AH(n)	S	MRMS	RMR	MSS	MRMS
Scepter	AH	MSS	MRMS	RMR	S	MRMS
Vixen	AH(n)	SVS	MRMS	MR	SVS	MRMS



R	Resistant
RMR	Resistant to moderately resistant
MR	Moderately resistant
MRMS	Moderately resistant to moderately susceptible
MS	Moderately susceptible
MSS	Moderately susceptible to susceptible
S	Susceptible
SVS	Susceptible to very susceptible
VS	Very susceptible

LRPB VORTEX WA NVT Grain Receivals (2022-2024)

- Medium large grain size with acceptable screenings and good test weights
- Good protein range considering LRPB Vortex's high yield profile
- Classification of APW



NVT

NVT 2022		Screenings (2mm sieve)			Protein (%)			Test Weight (kg/hectol)			1000 Grain Weight		
Variety	Site Count	Ave Screenings %	Maximum	Minimum	Ave Protein %	Maximum	Minimum	Ave Test Weight	Maximum	Minimum	Ave 1000 GW	Maximum	Minimum
Calibre	45	1.60	6.20	0.10	10.49	13.70	7.70	79.06	84.00	70.20	44.55	54.20	26.70
Chief CL Plus	45	1.42	8.90	0.30	11.21	14.40	8.60	79.90	84.00	70.60	46.19	56.10	30.80
Devil	45	2.00	17.00	0.20	10.31	13.40	8.10	79.28	83.90	69.10	43.80	54.20	29.80
Hammer CL Plus	45	1.97	10.00	0.30	10.92	14.00	8.20	80.26	85.50	70.70	39.24	53.20	26.10
Kinsei	45	2.72	14.50	0.50	9.99	13.20	7.40	78.39	83.50	65.60	39.20	47.60	27.90
LRPB VORTEX	45	2.50	9.40	0.50	10.11	12.70	7.30	79.74	84.60	69.90	41.47	51.70	29.20
LRPB Anvil CL Plus	45	1.01	5.20	0.10	11.68	15.20	8.40	80.50	84.80	72.40	43.82	50.60	32.30
RockStar	45	1.87	12.70	0.40	10.14	13.30	7.60	79.41	84.30	70.10	43.56	55.20	29.50
Scepter	45	1.64	5.70	0.30	10.50	13.30	7.90	80.34	85.40	72.90	45.47	54.00	32.40
Tomahawk CL Plus	45	1.60	6.90	0.20	10.23	13.20	7.50	80.34	85.40	72.90	45.47	54.00	32.40
Valiant CL Plus	45	1.47	15.70	0.20	10.76	14.40	7.80	81.01	85.80	72.50	41.86	50.10	29.20
Vixen	45	1.48	8.50	0.20	11.02	13.90	8.30	79.50	84.00	71.60	43.36	51.30	30.60

NVT 2023		Screenings (2mm sieve)			Protein (%)			Test Weight (kg/hectol)			1000 Grain Weight		
Variety	Site Count	Ave Screenings %	Maximum	Minimum	Ave Protein %	Maximum	Minimum	Ave Test Weight	Maximum	Minimum	Ave 1000 GW	Maximum	Minimum
Calibre	40	3.70	9.97	0.6	12.80	17	10.1	77.80	84.4	68.4	35.47	51.77	26.4
Chief CL Plus	40	3.03	15.76	0.55	13.21	16.7	10.6	80.04	87	70.8	37.42	50.59	25.52
Devil	40	3.72	12.37	0.42	12.61	17.2	9.7	79.67	83.8	69.6	35.79	48.73	25
Hammer CL Plus	40	4.78	17.46	0.76	13.13	17.5	10.4	80.13	88	58.4	32.74	45.82	21
Kinsei	40	3.50	16.06	0.51	12.64	16.4	9.1	79.22	85.6	68.59	33.95	44.22	20.8
LRPB VORTEX	40	3.49	9.33	0.8	12.49	16.7	9.1	80.07	88.4	66.57	34.54	48.59	23.26
LRPB Anvil CL Plus	40	3.14	14.15	0.4	12.69	15.4	10.4	81.12	91.2	74.25	36.03	46.56	27.56
RockStar	40	3.19	10.3	0.42	12.78	16.4	9.2	79.09	83.47	71.39	37.00	58.41	20.6
Scepter	40	3.20	8.37	0.29	12.54	16.5	9.6	80.69	85.2	72.73	36.41	52.35	26.4
Valiant CL Plus	40	3.83	16.82	0.5	14.00	18.3	10.6	79.67	85	64.2	33.82	50.71	19
Vixen	40	4.08	18.69	0.73	12.72	16.3	9.8	79.28	85.8	73.36	33.91	49.24	24.8

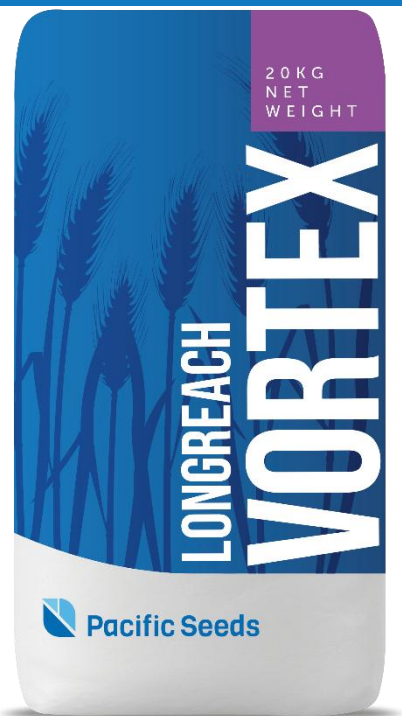
NVT 2024		Screenings (2mm sieve)			Protein (%)			Test Weight (kg/hectol)			1000 Grain Weight		
Variety	Site Count	Ave Screenings %	Maximum	Minimum	Ave Protein %	Maximum	Minimum	Ave Test Weight	Maximum	Minimum	Ave 1000 GW	Maximum	Minimum
Calibre	46	5.91	29.30	0.30	10.94	15.70	8.30	75.83	81.40	65.50	36.76	54.00	20.37
Chief CL Plus	46	4.86	25.70	0.40	11.56	16.20	8.80	77.28	83.00	46.69	38.26	53.74	21.33
Devil	46	6.21	31.20	1.00	10.91	15.30	8.50	76.51	82.40	66.68	36.58	52.34	20.53
Hammer CL Plus	46	6.79	26.10	1.09	11.26	16.10	8.70	78.29	86.80	69.70	34.19	51.10	20.05
Kinsei	46	7.03	31.02	0.49	10.86	16.50	7.60	76.36	82.80	66.20	33.68	48.00	20.25
LRPB VORTEX	46	6.58	39.20	1.72	10.60	15.20	8.00	77.72	83.40	66.90	35.49	49.92	18.80
LRPB Anvil CL Plus	46	3.80	27.60	0.43	11.53	15.60	8.60	78.28	83.00	65.40	38.43	54.56	21.38
RockStar	46	5.46	26.00	1.46	10.82	15.90	7.90	76.32	82.10	64.30	37.00	50.74	21.62
Scepter	46	5.52	31.80	0.60	10.82	15.60	7.90	77.76	89.00	64.50	37.65	53.92	21.28
Tomahawk CL Plus	46	5.96	32.20	0.81	10.59	15.70	7.80	77.24	83.50	64.70	37.93	54.86	21.36
Valiant CL Plus	46	4.22	18.80	0.70	12.06	18.10	8.70	78.47	83.00	69.50	35.75	51.92	23.46
Vixen	46	5.15	26.10	0.30	11.27	15.30	8.70	76.57	82.80	66.00	36.24	49.62	21.44

LRPB VORTEX WA Fit

- Highest yielding mid season wheat in long term MET WA NVT trials, 2020–2024
- LRPB VORTEX is an alternative to growing Scepter, Calibre, Shotgun & Devil
- LRPB VORTEX can be grown through out WA, with a significant yield advantage in environments over 2.5 t/ha
- A grain receivals package for reliable grain deliveries
- Good all round disease package with strong MS rating for Powdery Mildew
- An APW classification with potential APW(N) March 2026



LRPB Vortex



LRPB Vortex is available for sowing in 2025 through our Seed Associate Network, for contact information please go to www.pacificseeds.com.au

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