

LRPB SONIC



Quick Spring with top end yield
performance

WHEAT

LRPB SONIC – Quick Mid Spring Vixen type

- LongReach Plant Breeders has developed an AH quality wheat variety that is derived from LRPB Cobra using a different genetic background to Scepter
- LRPB Sonic is a quick mid spring maturity wheat similar to Vixen that delivers the new benchmark in yield performance and stability in its maturity class
- Improved Powdery Mildew disease resistance (M_{Sp}) than Vixen with a tougher grain receivals package when delivering to the CBH bin
- Medium-long coleoptile similar to Calibre, Magenta and Yitpi



LRPB SONIC – NVT Main Season MET Analysis (All Agzones 2020-2024)

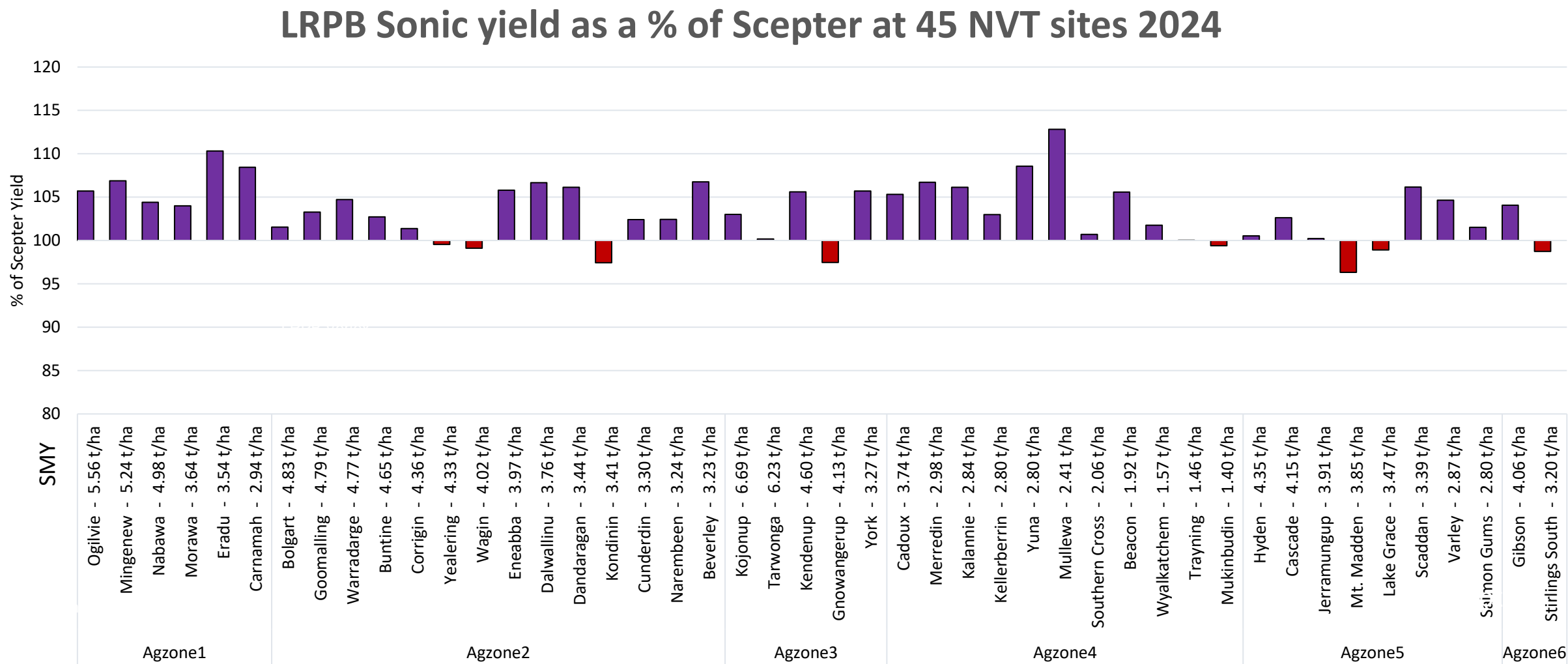
WA main season MET analysis (2020-2024) - % Average site mean yield								
	Classification	Agzone1	Agzone2	Agzone3	Agzone4	Agzone5	Agzone6	All WA
LRPB Anvil CL Plus	AH	99.4%	99.7%	96.0%	103.8%	101.6%	96.3%	99.9%
LRPB Avenger	APW (n)	102.9%	103.4%	100.8%	106.6%	104.8%	99.9%	103.5%
Vixen	AH (n)	105.6%	107.5%	105.2%	109.9%	109.7%	105.2%	107.5%
LRPB Sonic	AH	110.8%	110.0%	109.8%	111.0%	110.5%	110.7%	110.4%
LRPB Havoc	AH (n)	103.7%	103.0%	100.5%	105.8%	104.1%	102.3%	103.3%
Devil	AH (n)	106.4%	107.6%	107.7%	107.3%	108.4%	108.2%	107.6%
Calibre	AH	105.2%	107.8%	107.1%	108.1%	109.6%	107.0%	107.6%
Tomahawk CL Plus	APW	108.5%	110.2%	109.0%	111.2%	112.1%	110.2%	110.3%
Scepter	AH	105.8%	106.6%	105.9%	107.3%	107.7%	106.8%	106.7%
LRPB Vortex	APW	111.3%	111.4%	112.8%	110.5%	111.4%	112.3%	111.5%
Brumby	APW	107.3%	108.3%	108.9%	107.7%	109.0%	109.4%	108.3%
Rockstar	AH (n)	107.3%	107.2%	109.3%	105.2%	106.7%	109.6%	107.3%
Mean Yield (t/ha)		3.81	3.80	4.74	2.84	3.31	3.95	3.62
Trials in Analysis		23	74	23	48	30	13	211

LRPB Sonic
outperformed both
Vixen and Devil WA
NVT Main Season
MET analysis
(2020-2024)



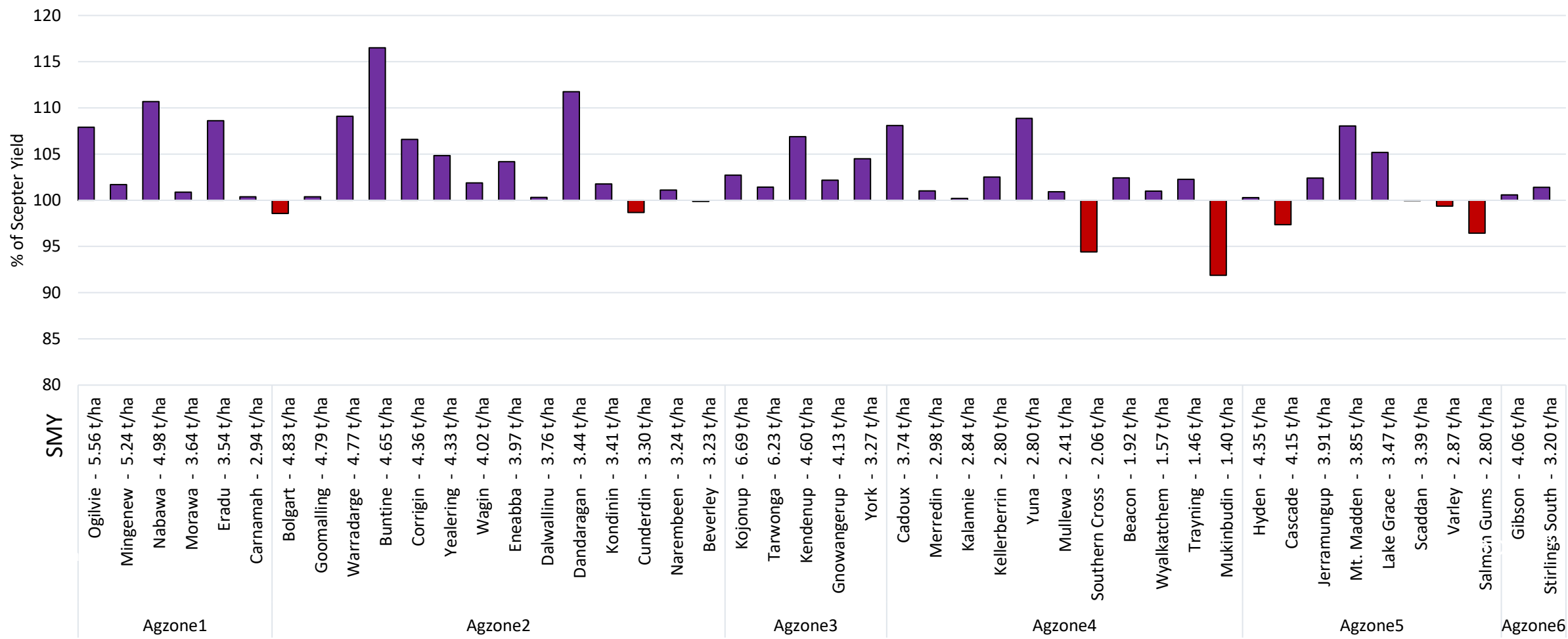
Note: LRPB Sonic first entered into WA NVT trials in 2024 in All Agzones
Varieties ranked in maturity order – Quick to Mid Long

LRPB SONIC – Yield Performance vs Scepter 2024 Main Season NVT

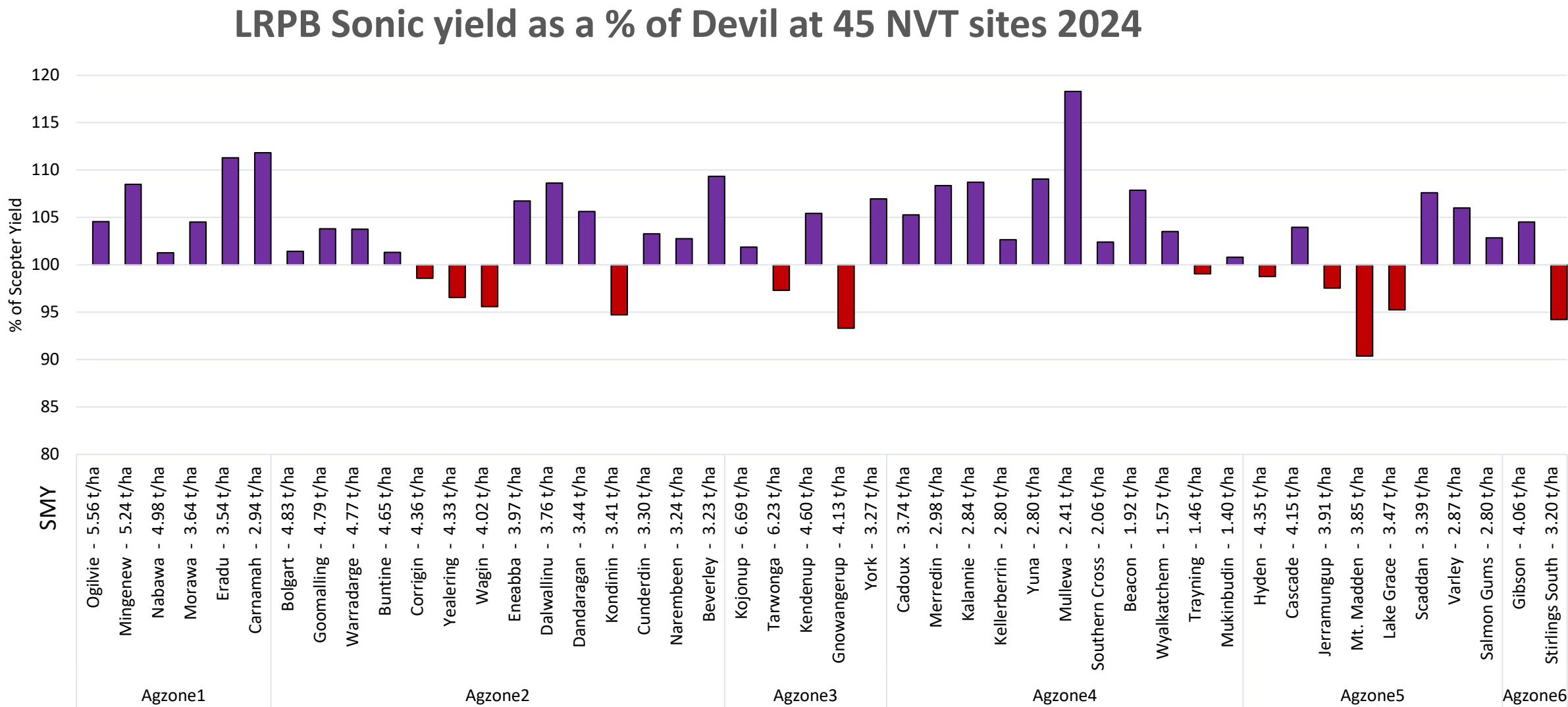


LRPB SONIC – Yield Performance vs Vixen 2024 Main Season NVT

LRPB Sonic yield as a % of Vixen at 45 NVT sites 2024

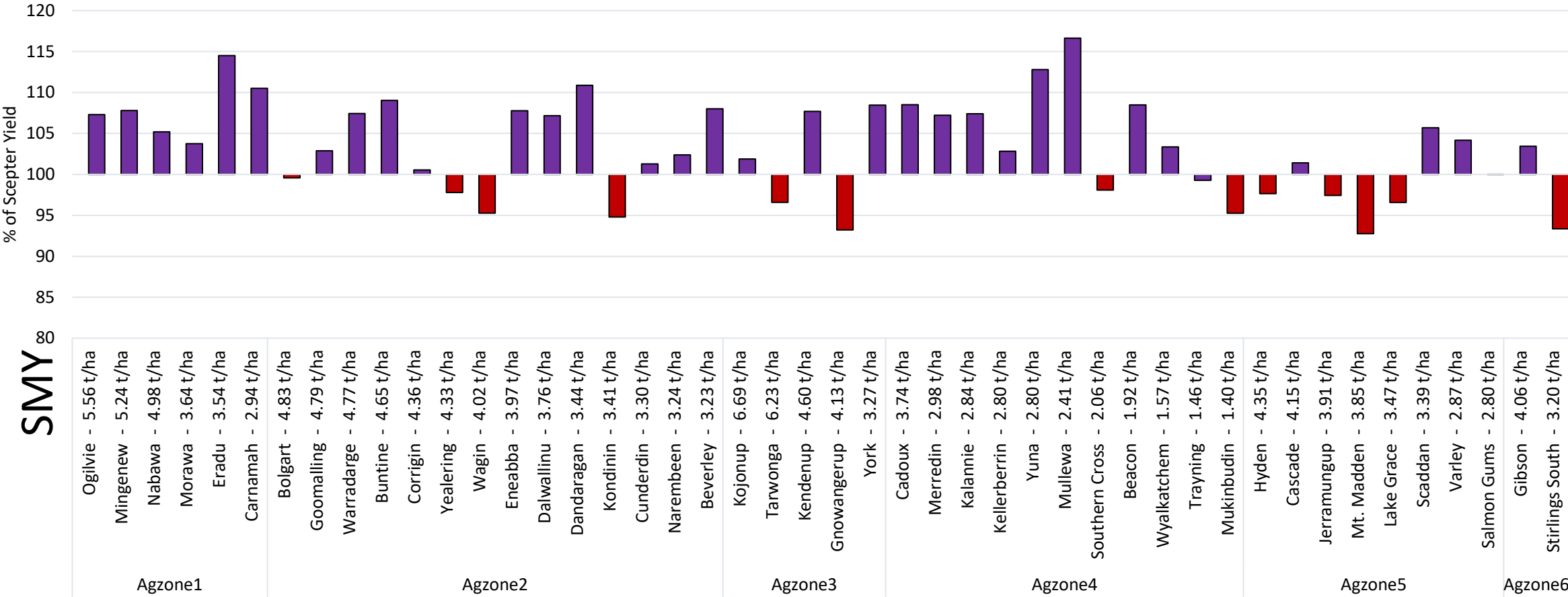


LRPB SONIC – Yield Performance vs Devil 2024 Main Season NVT



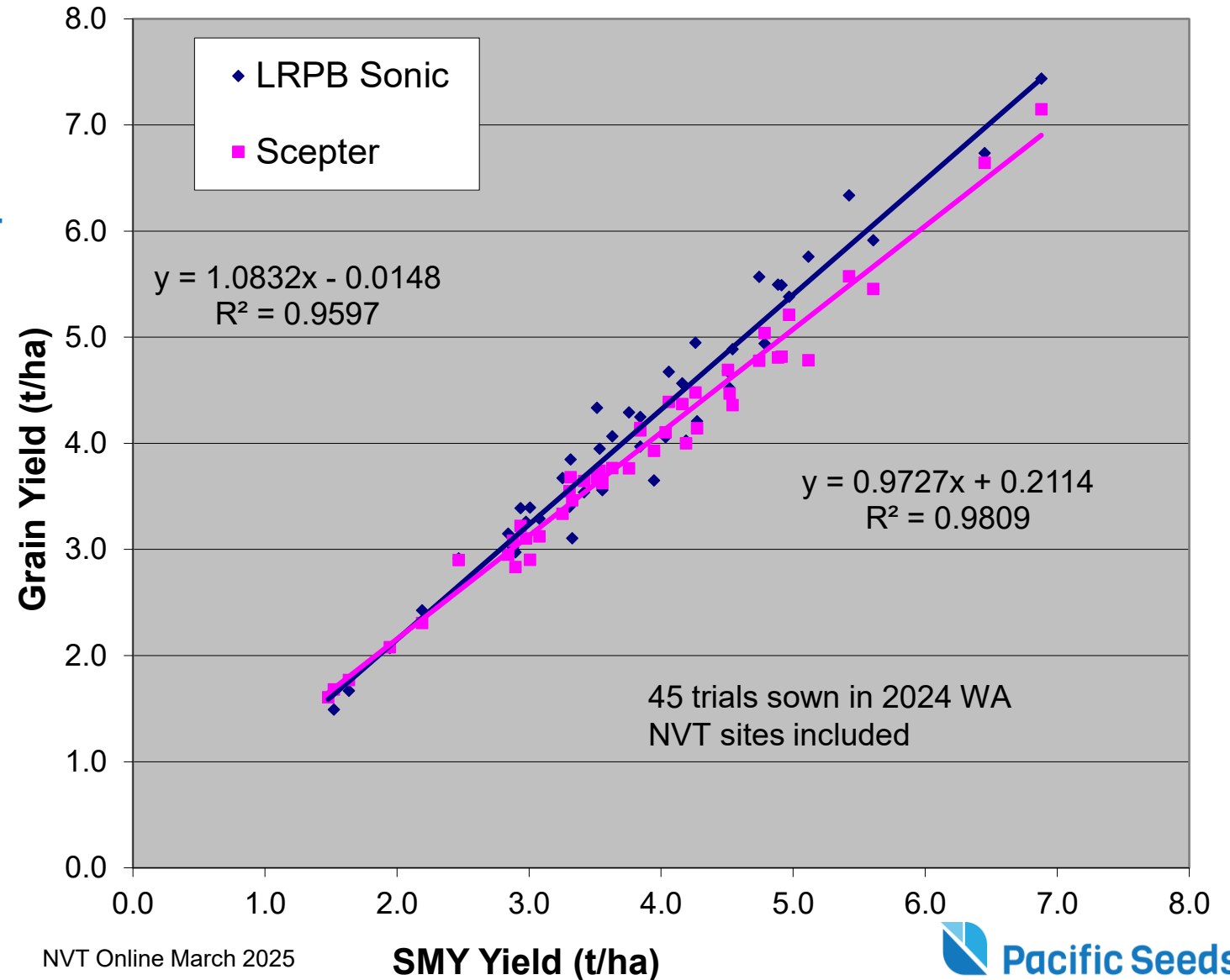
LRPB SONIC – Yield Performance vs Calibre 2024 Main Season NVT

LRPB Sonic yield as a % of Calibre at 45 NVT sites 2024



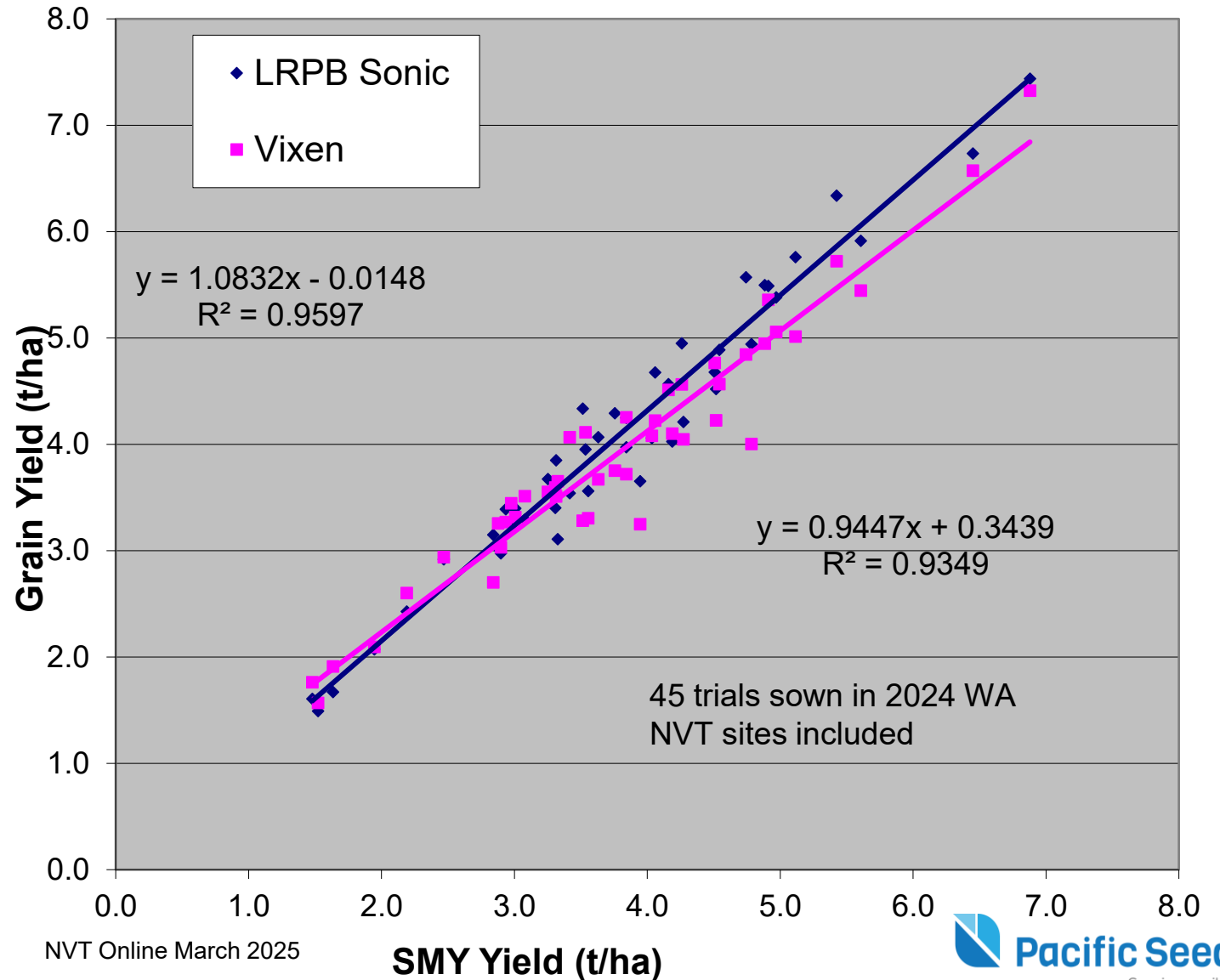
LRPB SONIC vs Scepter Yield Regression (All Agzones 2024)

- LRPB Sonic showed a yield advantage over Scepter in 2.1 t/ha environments in the WA NVT trials 2024
- LRPB Sonic was the highest yielding AH line in the WA NVT trials 2024



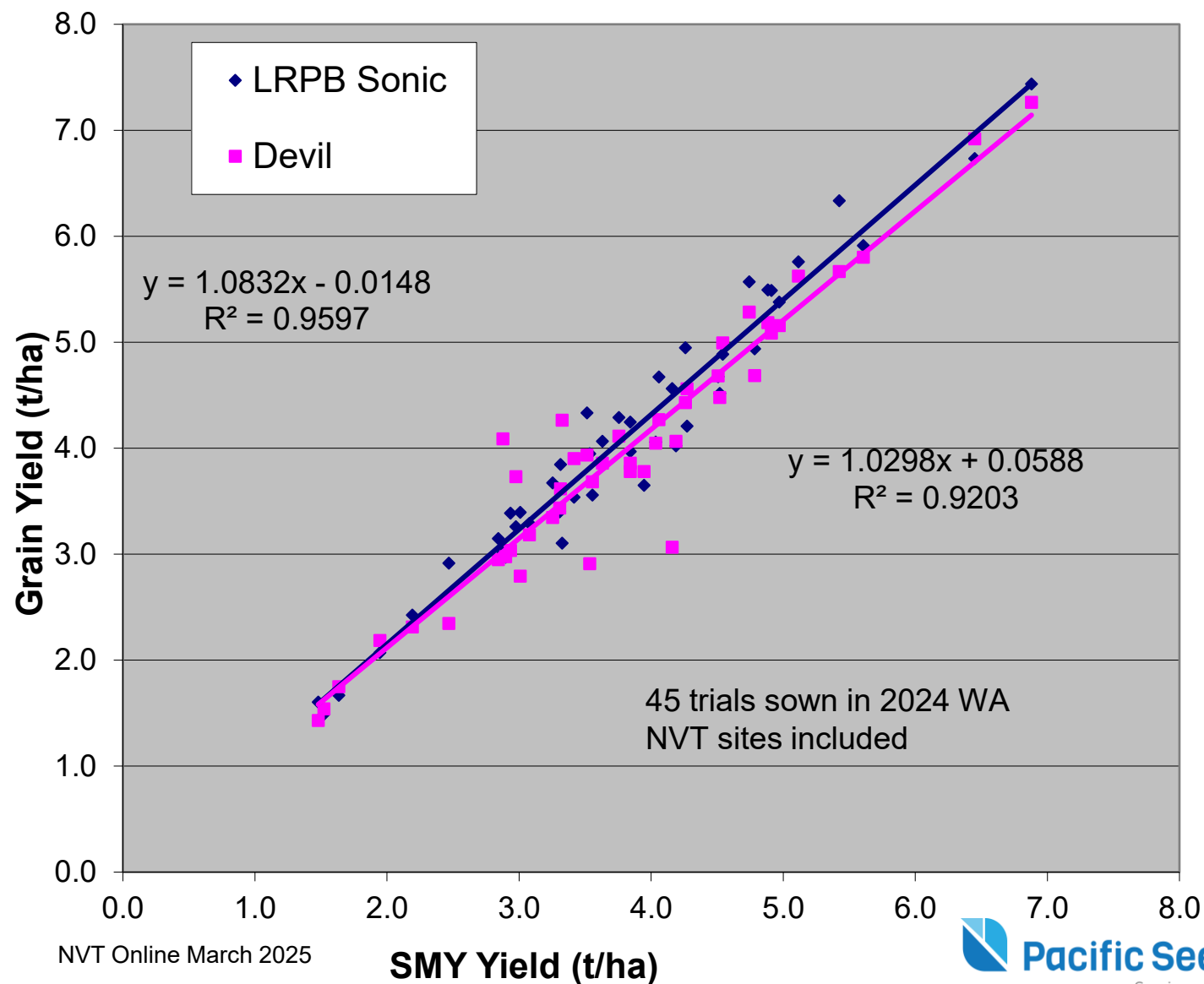
LRPB SONIC vs Vixen Yield Regression (All Agzones 2024)

- LRPB Sonic showed a yield advantage over Vixen in 2.7 t/ha environments in the WA NVT trials 2024



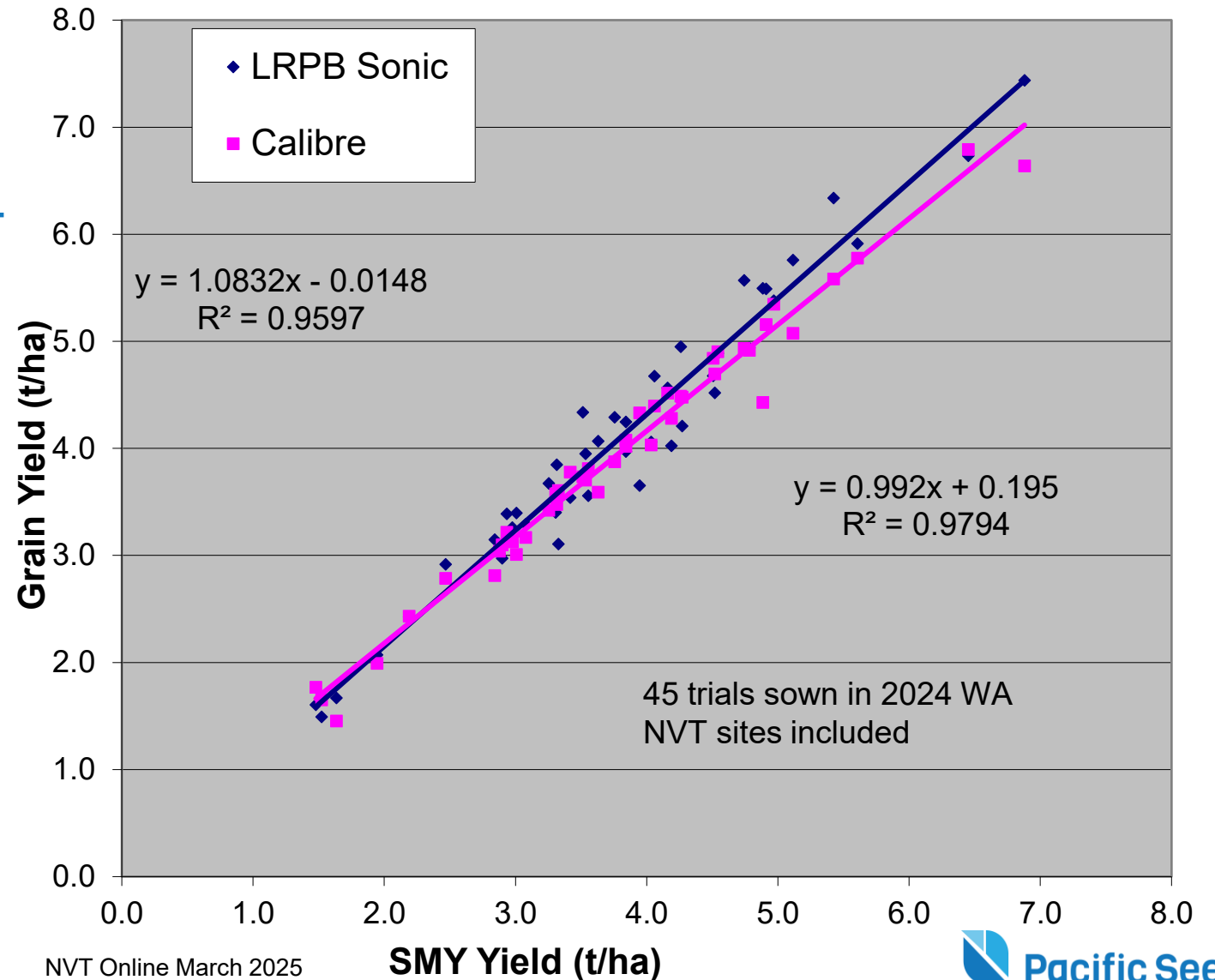
LRPB SONIC vs Devil Yield Regression (All Agzones 2024)

- LRPB Sonic showed a yield advantage over Devil throughout all yield environments in the WA NVT trials 2024



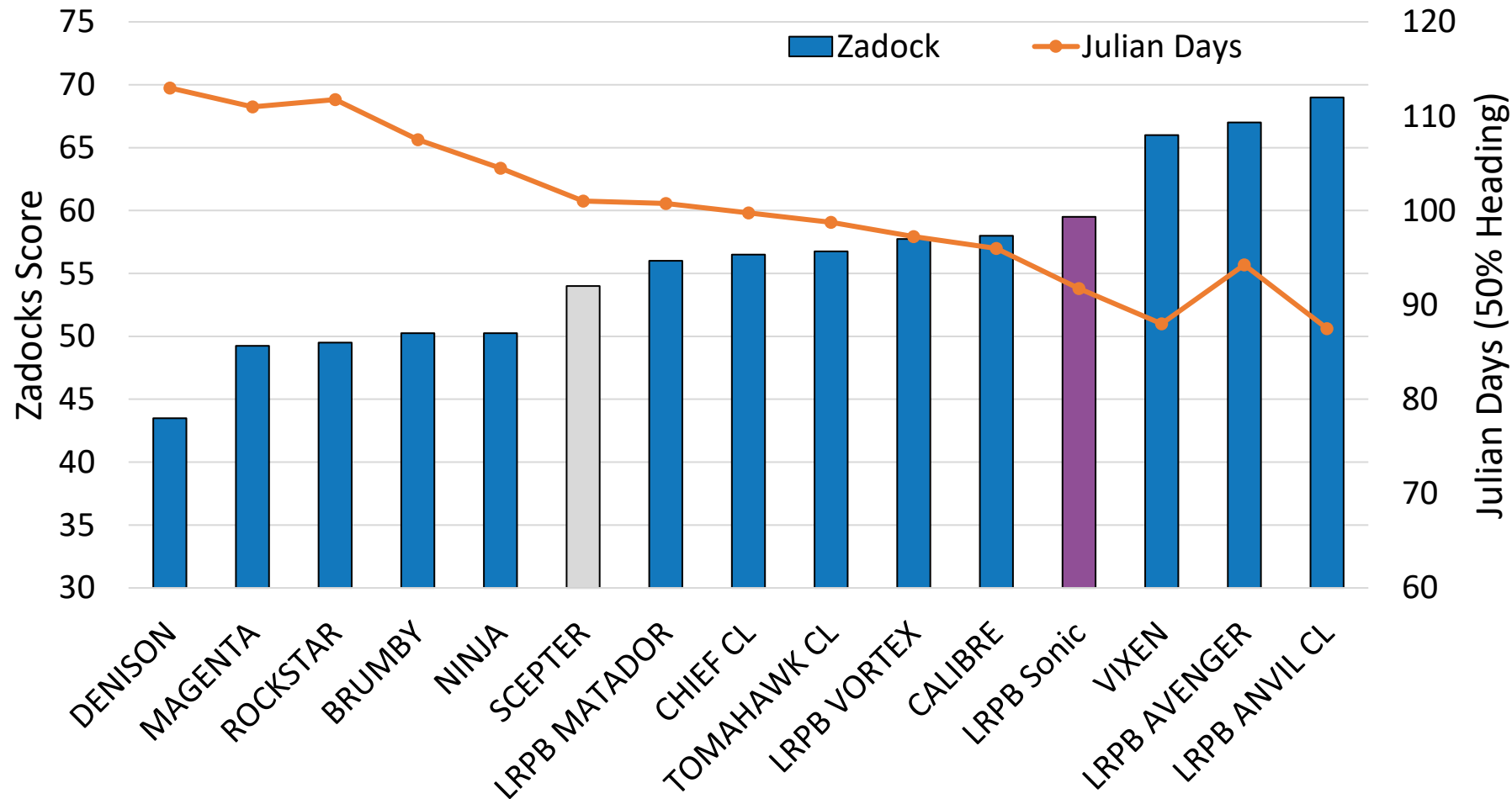
LRPB SONIC vs Calibre Yield Regression (WA NVT All Agzones 2024)

- LRPB Sonic showed a yield advantage over Calibre in 2.4 t/ha environments in the WA NVT trials 2024
- LRPB Sonic was ranked #1 yielding line in the WA NVT trials 2024



LRPB SONIC Maturity – LongReach Site Goomalling 2024

Goomaling Elite trial Average Zadock Scores (4 Reps) taken on 9 September 2024



- LRPB Sonic (92 Days) is 9 days quicker to head than Scepter (101 Days)
- LRPB Sonic (92 Days) is 4 days slower to head than Vixen (88 Days)

Time of Seeding Date 5 June 2024

LRPB SONIC - Maturity vs Scepter



LRPB
Sonic
← (LHS)

Vs

Scepter
(RHS) →



Maturity of LRPB Sonic at the Mingenew Main Season Main Season NVT trial on the 04 September 2024 with a Zadocks score of 70

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

LRPB SONIC - Maturity vs Vixen



LRPB
Sonic
← (LHS)

Vs

Vixen
(RHS) →



Maturity of LRPB Sonic at the Mingenew Main Season Main Season NVT trial on the 04 September 2024 with a Zadocks score of 70

Maturity of Scepter at the Mingenew Main Season NVT trial on the 04 September 2024 with a Zadocks score of 70

LRPB SONIC - Maturity vs Calibre



LRPB
Sonic
← (LHS)
Vs
Calibre
(RHS) →



Maturity of LRPB Sonic at the Mingenew Main Season Main Season NVT trial on the 04 September 2024 with a Zadocks score of 70

Maturity of Scepter at the Mingenew Main Season NVT trial on the 04 September 2024 with a Zadocks score of 65

LRPB SONIC - Maturity Window

	May			June		
Variety	Week 2	Week 3	Week 4	Week 1	Week 2	Week 3
LRPB Sonic						

Recommended sowing window for LRPB Sonic is from mid May to mid June

Key:

	Recommended
	Not recommended

- Quick mid spring maturity wheat which sits between Calibre and Vixen
- Ideal planting window is from mid May to mid June
- Fast through grain-fill to suit low to medium rainfall areas with quicker finishes

LRPB SONIC - Abiotic Testing

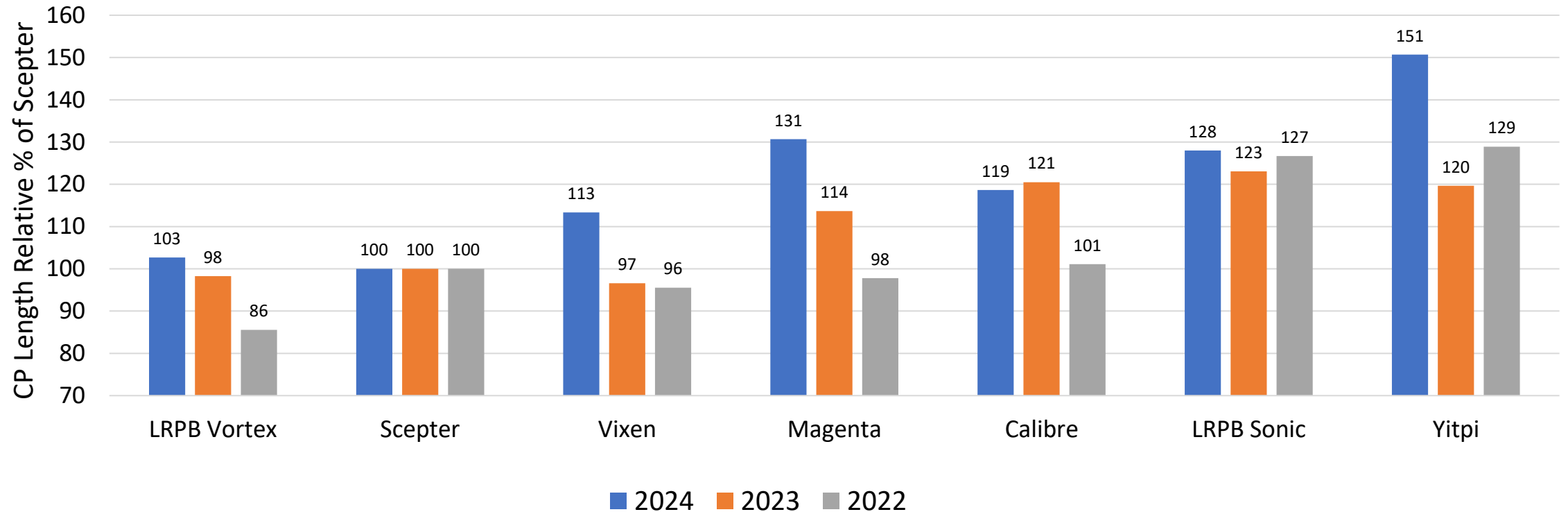
- Routine abiotic screening conducted by LongReach shows that LRPB Sonic has robust tolerances to all major abiotic soil constraints in Western Australia

ABOTIC STRESS RATING	LRPB Sonic	LRPB VORTEX	CALIBRE ^p	SCEPTER ^p	ROCKSTAP ^p	VIXEN ^p
Acid pH 4.2 RRL (%)	T	T	T	MT	T	MT
Aluminium Tolerance pH 4.2 Al-RRL (%)	T	MT	MI	MT	MI	MI
Alkaline Tolerance pH 9.5 RRL (%)	MI	MT	MT	MI	MT	MI
Boron Tolerance Bo-RRL (%)	MT	MI	MT	T	MI	MI
*LRPB interpretations of internal data - For Boron, Acid and Al, MI = Moderately intolerant 25-50%; MT= Moderately Tolerant 50-75% T= Tolerant >75%; For Alkaline- MI = Moderately intolerant 11-15%						

*LRPB interpretations of internal data - For Boron, Acid and Al, 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 SONIC – Coleoptile Length

LRPB Sonic coleoptile length as a relative % of Scepter including 6 other commercial varieties measured in 2022-2024



- LRPB Sonic shows to have a medium to long coleoptile similar to Magenta, Calibre and Yitpi

LRPB SONIC – NVT Disease Ratings

		WA NVT Trials Main Season Disease Ratings 2025					
		Leaf Rust	Stem Rust	Stripe Rust	Black Point	Powdery Mildew	Yellow Spot
Variety	Classification	Lr	Sr	Yr WA	BP	PM WA	YS
LRPB Sonic	AH	MRMS	MSp	MRp	Sp	MSSp	MRMSp
Brumby	APW	SVS	MR	RMR	MSS	R	MRMS
Calibre	AH	S	MR	RMR	MSS	MSS	MRMS
Chief CL Plus	APW(n)	MR	MR	S	MS	S	MRMS
Devil	AH(n)	SVS	S	RMR	MSS	SVS	MRMS
LRPB Anvil CL Plus	AH	SVS	MR	RMR	S	S	MSS
LRPB Havoc	AH(n)	S	S	MR	MS	MSS	MRMS
LRPB Vortex	APW	SVS	MRMS	RMR	S	MS	MRMS
Rockstar	AH(n)	S	MRMS	RMR	MSS	MSS	MRMS
Scepter	AH	MSS	MRMS	RMR	MS	S	MRMS
Tomahawk CL Plus	APW	S	MR	RMR	S	S	MRMS
Valiant CL Plus	AH	S	MRMS	RMR	MRMS	SVS	MRMS
Vixen	AH(n)	SVS	MRMS	MR	MSS	SVS	MRMS



NVT Online June 2025

- Strong Stripe rust (MRp) resistance against the WA pathotype
- Stem rust (MSp) resistance rating similar to Brumby, Chief CL Plus, LRPB Anvil CL Plus & Tomahawk CL Plus
- Good Strong Leaf Rust (MRMS) resistance rating
- Good Yellow Spot resistance (MRMSp) for regional WA
- Good Powdery Mildew (MSS) rating against the WA pathotype

LRPB SONIC – WA NVT Grain Receivals (2024)

- Solid test weights similar to LRPB Anvil CL Plus
- Good 1000 grain weight similar to Calibre and Vixen
- Showing good protein accumulation for a high yielding line similar to Vixen
- Good screenings similar to Calibre and Vixen



NVT Main Season Screenings (2mm Sieve)					
Variety	Site Count	Site Screenings >5.0%	Ave Screenings %	Maximum	Minimum
Calibre	45	18	5.99	29.30	0.30
Chief CL Plus	45	14	4.93	25.70	0.40
Devil	45	20	6.30	31.20	1.00
Hammer CL Plus	45	24	6.90	26.10	1.09
IGW6895	45	27	8.37	34.42	0.20
LRPB Anvil CL Plus	45	9	3.86	27.60	0.43
LRPB Sonic	45	17	5.71	31.90	0.50
LRPB Vortex	45	21	6.65	39.20	1.72
RockStar	45	18	5.52	26.00	1.46
Scepter	45	16	5.60	31.80	0.60
Shotgun	45	20	6.18	36.80	0.80
Tomahawk CL Plus	45	21	6.06	32.20	0.81
Valiant CL Plus	45	12	4.29	18.80	0.70
Vixen	45	16	5.22	26.10	0.30

NVT Main Season Test Weight					
Variety	Site Count	Sites <75kg/hect	Ave Test Weight	Maximum	Minimum
Calibre	45	16	75.75	81.40	65.50
Chief CL Plus	45	12	77.17	83.00	46.69
Devil	45	14	76.40	82.40	66.68
Hammer CL Plus	45	10	78.23	86.80	69.70
IGW6895	45	14	76.75	84.70	65.20
LRPB Anvil CL Plus	45	7	78.22	83.00	65.40
LRPB Sonic	45	8	78.42	84.10	65.60
LRPB Vortex	45	10	77.64	83.40	66.90
RockStar	45	17	76.22	82.10	64.30
Scepter	45	12	77.70	89.00	64.50
Tomahawk CL Plus	45	11	77.14	83.50	64.70
Shotgun	45	15	75.68	82.60	64.60
Tomahawk CL Plus	45	11	77.14	83.50	64.70
Valiant CL Plus	45	7	78.37	82.83	69.50
Vixen	45	14	76.46	82.80	66.00

NVT Online March 2025

NVT

NVT Main Season Grain Protein					
Variety	Site Count	Site Protein <9.5%	Ave Protein %	Maximum	Minimum
Calibre	45	13	10.93	15.70	8.30
Chief CL Plus	45	5	11.56	16.20	8.80
Devil	45	9	10.91	15.30	8.50
Hammer CL Plus	45	6	11.26	16.10	8.70
IGW6895	45	15	10.56	15.90	8.00
LRPB Anvil CL Plus	45	4	11.51	15.60	8.60
LRPB Sonic	45	10	10.98	15.80	8.20
LRPB Vortex	45	13	10.61	15.20	8.00
RockStar	45	14	10.84	15.90	7.90
Scepter	45	12	10.82	15.60	7.90
Shotgun	45	12	10.58	16.10	7.70
Tomahawk CL Plus	45	11	10.59	15.70	7.80
Valiant CL Plus	45	5	12.10	18.10	8.70
Vixen	45	7	11.28	15.30	8.70

NVT Main Season 1000 Grain Weight					
Variety	Site Count	Sites <30	Ave 1000 GW	Maximum	Minimum
Calibre	45	10	36.68	54.00	20.37
Chief CL Plus	45	6	38.16	53.74	21.33
Devil	45	9	36.44	52.34	20.53
Hammer CL Plus	45	12	34.11	51.10	20.05
IGW6895	45	15	34.57	51.82	16.91
LRPB Anvil CL Plus	45	6	38.38	54.56	21.38
LRPB Sonic	45	10	37.42	50.86	19.56
LRPB Vortex	45	13	35.45	49.92	18.80
RockStar	45	10	36.86	50.74	21.62
Scepter	45	8	37.57	53.92	21.28
Tomahawk CL Plus	45	7	37.80	54.86	21.36
Shotgun	45	11	36.81	52.34	20.25
Tomahawk CL Plus	45	7	37.80	54.86	21.36
Valiant CL Plus	45	13	35.64	51.92	23.46
Vixen	45	9	36.16	49.62	21.44

LRPB SONIC

- Highest yielding quick mid maturing line in the WA NVT trials (Single Site) in 2024
- Highest yielding line with an AH classification in the WA NVT Long Term MET in 2024
- Robust disease package for WA including good Powdery Mildew (MS) for WA growers
- Medium-long coleoptile similar to Calibre, Magenta and Yitpi



LRPB SONIC



LRPB Sonic is available for sowing in 2026 through our Seed Associate Network, for contact information please go to www.pacificseeds.com.au

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