



LongReach



Viking

NEW

KEY FEATURES

- A high yielding variety that delivers increased yield in upside situations making it well suited to medium to higher rainfall areas of NSW and Qld.
- Australian Prime Hard classification in the Northern and South Eastern Zones
- A mid-late maturity similar to EGA Gregory that suits early May to late May planting
- Has an excellent Stripe rust resistance package and good resistance to other rusts

BREEDING Pedigree: Chara//Nesser*1/2*VI184

Viking (LPB08-0079) was bred by LongReach Plant Breeders in Australia and has been extensively yield tested since 2008. The line was first entered into the National Variety Trials in 2012.

AGRONOMIC FEATURES

Viking shows broad adaptation and has performed well in a range of seasons and environments across NSW, including acidic soils. Yield performance is best when planted in early May due to its mid-late maturity and is not suited to planting after late May. In northern and southern NSW Viking has a maturity between EGA Gregory & Sunvale. Viking has a similar plant type and early growth habit to Chara, but is taller, being comparable in height to EGA Gregory at maturity. It has excellent resistance to Stripe rust (R-MR) based on the Yr4 gene, good resistance to Stem rust (MR-MS) and Leaf rust (MR). Viking has a base level of Yellow Spot resistance (MS-S) and is resistant to CCN (R). Viking has good grain size, similar to Sunzell and Chara, excellent test weight and acceptable screenings. Preliminary data indicates average pre harvest sprouting tolerance (S) typical of many NSW varieties and a Blackpoint tolerance (MS) similar to EGA Gregory.

Disease and Pest Resistance Ratings: Viking and commercial varieties.

Variety	Disease Ratings							Pest Reaction	
	Stem Rust	Leaf Rust	Stripe Rust	Stripe Rust	<i>Septoria tritici</i>	Crown Rot	Yellow Spot	RLN (<i>P.thornei</i>)	
			WA/Jackie	WA + Yr17 pt				Res	Tol
Viking	MR-MS	MR	R-MR	R-MR	MS	MS-S*	MS-S	MS	T-MT
Bolac	MR-MS	MS	R-MR	R-MR	S	S	S	MS	MI
Chara	MR-MS	MS	MS-S	MS-S	MS	S	MS-S	MR-MS	MT-MI
EGA Gregory	MR	MR	MR	MR	MS	S	MS-S	MS	MT
Ellison	MR	R	R	MS	MS-S	S-VS	MR-MS	S	I-VI
Lancer	R	R-MR	MR	MR	MR-MS	MS	MS	MS	T-MT
Strzelecki	MR-MS	R	MR	MR	MS	S	MS	S-VS	I-VI
Sunvale	R	MR-MS	R	MR	MR-MS	MS-S	MS-S	MS	MT-MI
Sunzell	MR	R	R-MR	MS	MS	MS-S	MS-S	MS	MT-MI

Resistance rating: VS=Very Susceptible, S=Susceptible, MS=Moderately Susceptible, MR=Moderately Resistant

R=Resistant, Tol Rating - T =Tolerant, MT=Moderately Tolerant, MI =Moderately Intolerant, I = Intolerant, VI = Very Intolerant

Data sourced NSW DPI 2014 LongReachPlant Breeders * Preliminary Data Based on limited data set



NVT MET analysis 2009-2013 for Early Season trials in New South Wales												
Varieties	South East NSW			South West NSW			North East NSW			North West NSW		
	t/ha	%MY	Count	t/ha	%MY	Count	t/ha	%MY	Count	t/ha	%MY	Count
Viking	4.17	108	14	3.89	105	12	4.05	110	10	3.56	109	13
Bolac	4.08	105	38	3.89	105	29	3.88	105	19	3.42	104	23
Chara	3.76	97	38	3.62	98	29	3.63	98	8	3.28	100	16
Gregory	4.13	107	38	3.87	105	29	4.02	109	29	3.53	108	36
Gauntlet	4.17	108	21	3.88	105	18	4.11	111	15	3.55	108	20
Lancer	3.83	99	21	3.60	97	18	3.75	102	15	3.31	101	20
Strzelecki	3.77	97	38	3.61	98	29	3.58	97	29	3.17	97	36
Sunvale	3.76	97	38	3.58	97	29	3.64	99	29	3.22	98	36
Sunzell	3.58	93	38	3.33	90	29	3.49	95	29	3.07	94	36
Region Mean Yield	3.87		38	3.70		29	3.69		29	3.28		36

Average yield grouped into yield ranges for 69 NSW Early Sown LongReach and NVT trials 2010-2013						
Range	1 - 2 t/ha	2 - 3 t/ha	3 - 4 t/ha	4 - 5 t/ha	>5 t/ha	Average
Viking	1.63	2.83	3.75	4.75	6.00	4.02
Gregory	1.68	2.79	3.66	4.59	5.57	3.88
Lancer	2.25	2.70	3.62	4.52	5.34	3.81
Sunvale	1.83	2.56	3.44	4.16	5.19	3.60
Sunzell	1.43	2.42	3.33	4.14	5.26	3.52
Strzelecki	1.28	2.49	3.29	4.00	5.05	3.46
Site Mean (t/ha)	1.67	2.63	3.48	4.38	5.56	3.73
Trial number	2	15	28	14	10	69
% trials in range	3%	21%	39%	20%	14%	

Snapshot from initial year trials in Qld showing average region yields from 2013 Early Sown NVT trials								
Region	Central QLD		South East QLD		South West QLD		2013 Qld	
	t/ha	%SMY	t/ha	%SMY	t/ha	%SMY	t/ha	%SMY
Viking	3.62	109	3.59	104	2.23	107	3.03	107
Gregory	3.40	103	3.54	102	2.23	107	2.95	104
Baxter	3.32	100	3.37	97	2.32	111	2.92	103
Lancer	3.32	100	3.60	104	2.08	100	2.87	101
Gauntlet	3.13	95	3.66	106	2.13	102	2.85	100
Sunvale	3.05	92	3.29	95	1.99	95	2.67	94
Strzelecki	2.98	91	3.06	88	1.77	85	2.50	88
Site Mean (t/ha)	3.31	4 trials	3.46	3 trials	2.09	5 trials	2.84	12 trials

New South Wales

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Hart Bros. Seeds
June, NSW
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Superior Seed Co
Deniliquin, NSW
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