



**SEED
EXCELLENCE**

SEA STOCKMAN Hay Wheat Fact Sheet

(SEA20-0002)

MARCH 2023



Key Characteristics

TYPE

As hay wheat, it's an awn less, quick-mid maturity variety suitable for grazing, fodder production, and feed grain applications; particularly where the grower only seeks a single cut.

VARIETY

Tall variety, with a wide flag leaf, which quickly produces a high biomass. Excellent leaf-to-stem ratio.

PLANTING WINDOW

SEA STOCKMAN has been sown successfully across a wide planting window (from late April to late July), having little/no vernalisation requirement.

RUST AND PLANT RESISTANCE

Good rust resistance package, but may be more susceptible to new pathotypes.

PATHOGEN RESITANCE

Moderate tolerance to root lesion nematodes .

STANDABILITY

Good standability.

OTHER

Replacement for Petrel



Breeding and Agronomy



SEA STOCKMAN was bred from a cross between EGA Gregory and an awn-less winter wheat. The selection was undertaken for rust resistance, biomass production and standability. The result is a tall quick-mid maturity awn less, spring variety that is suitable for grazing, feed, and fodder applications, across a wide range of locations from central Queensland to northern NSW. The early maturity of SEA STOCKMAN sets it apart from other hay wheat available to growers in the northern region (typically either slow spring or winter types).

When targeting hay production SEA STOCKMAN can be sown early and grazed or sown late for baling. The variety has a wide flag leaf and develops high leaf biomass relatively quickly, with a grain yield potential similar to that of other quick-mid maturity varieties such as LRPB Mustang.

It has a good rust resistance package typically demonstrating good levels of adult plant resistance to stripe rust (MR reaction in the northern region but has shown increased susceptibility to the 2022YR134 + YR17 pathotype), combined with good resistance to both leaf rust (RMR) and stem rust (MRMS). In NVT evaluations it has also demonstrated moderate tolerance to RLN. It is however susceptible to powdery mildew, and so growers targeting fodder productions should consider the application of relevant fungicide treatments.

Disease Resistance

Stripe Rust	MR [#]
Leaf Rust	RMR [†]
Stem Rust	MRMS
Crown rot	S
CCN	MSS ^P
Pratylenchus thornei (Res.)	S
Pratylenchus thornei (Tol.)	MT

Phenotype data from NVT evaluations as SEA20-0002

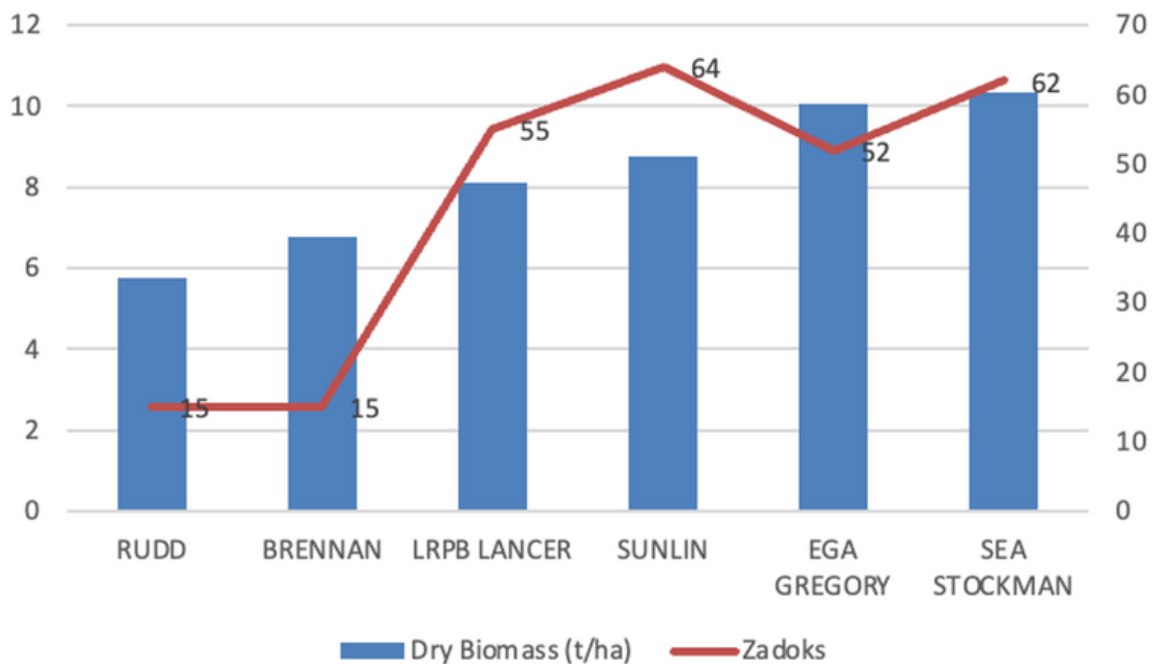
[#] Has demonstrated good levels of adult plant resistance to stripe rust, but is now MSS to the 2022YR134+YR17 pathotype

[†] May be more susceptible to new pathotypes of leaf rust

P Provisional, based on limited data



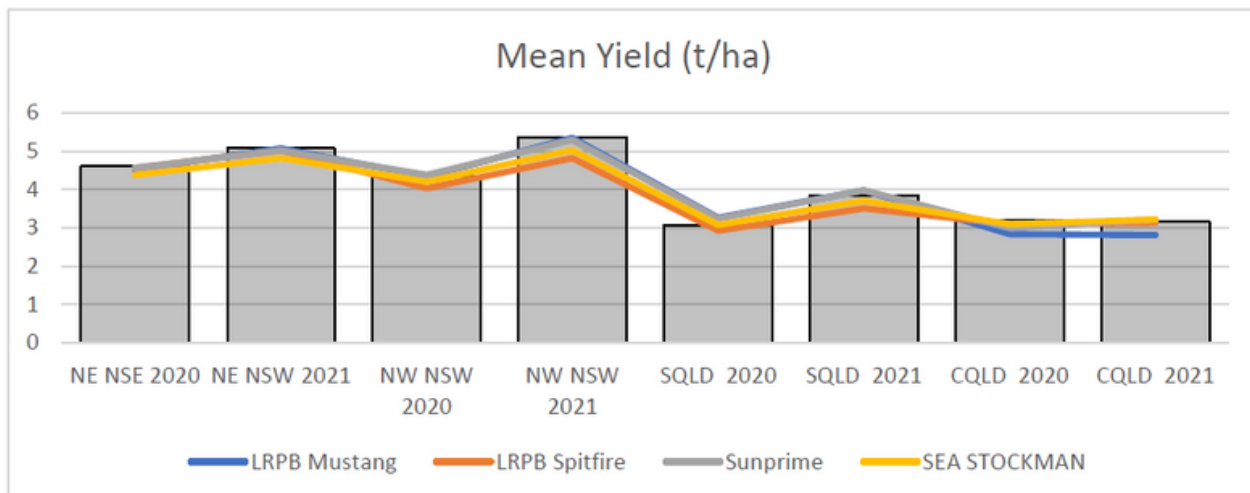
Biomass Production



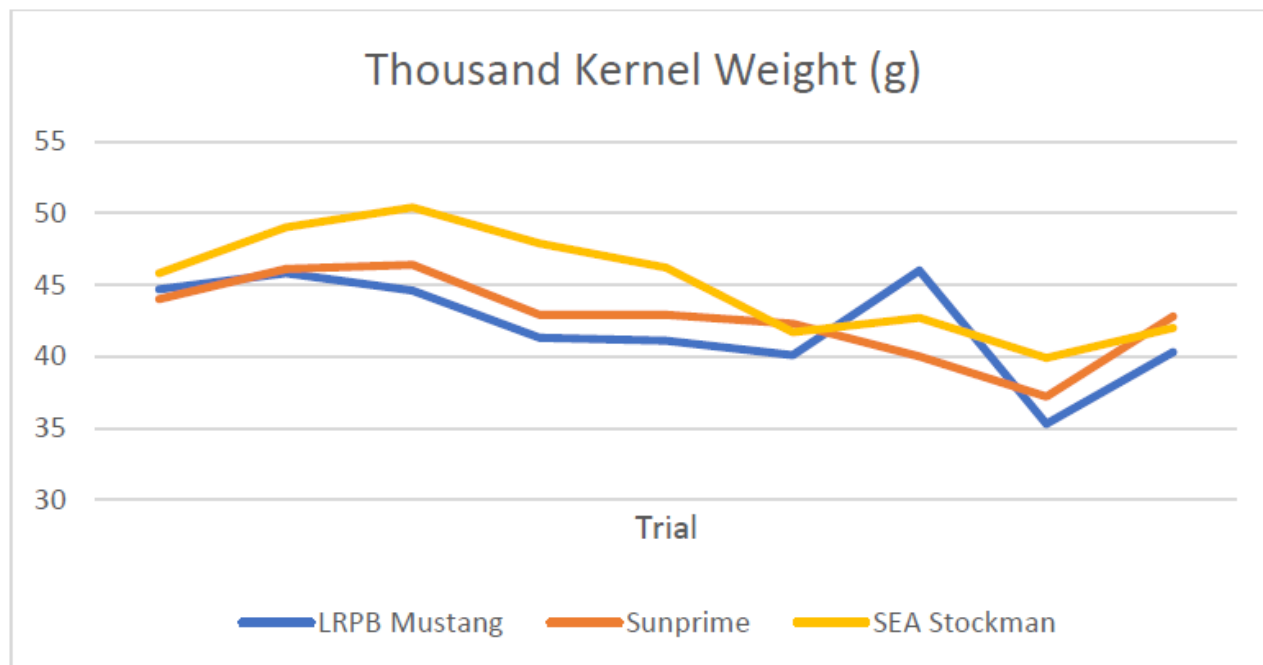
Results from trial sown at Gatton (Qld), mid-April with a single biomass harvest in mid-August. Mean dry biomass (t/ha) when SEA STOCKMAN was at anthesis (Zadocks 62), slower maturing lines LRPB Lancer and EGA Gregory were at the ear emergence stage (52-55), and winter wheat varieties Rudd and Brennan were still at the seedling growth stage (15). Demonstrating ability of SEA STOCKMAN to produce high biomass quickly.



Mean Yield



Yield data obtained from the NVT Online Yield Reporter, 28 March 2023 (<https://nvt.grdc.com.au/>) for trials grown in 2020 and 2021 in northern NSW, southern and central Queensland. Grey bars indicate mean yield of NVT trials for the indicated year in each region.



Thousand kernel weights of SEA STOCKMAN compared quick-mid maturity varieties LRPB Mustang and Sunprime. Data obtained from the NVT Online Yield Reporter, 28 March 2023 (<https://nvt.grdc.com.au/>) for trials grown in 2020 and 2021 in Queensland.



End Point Royalty

As a condition of the purchase of SEA STOCKMAN seed, the grower agrees to comply with the Variety License (<https://varietycentral.com.au/licensing/>) and to pay an End Point Royalties of \$3.00 per tonne (Excl. GST). EPR is payable on all grain production, except for seed retained by the grower for replanting by the grower, or for hay or fodder production. Royalties are used to support future breeding efforts in Seed Excellence Pty Ltd; a privately owned Australian breeding company, working solely for the benefit of Australian growers. Grower to grower trading is not permitted.



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FOR SALES:

SEA STOCKMAN is available from
Shepherd Grain in Moree:

<https://shepherdgrain.com.au/>

Email: orders@shepherdgrain.com.au

Phone: (02) 5733 2822

Address: 122 Burrington Road, Moree NSW