

Voltron

- A high yielding facultative feed and biscuit wheat
- High yield potential under a wide sowing window – April until late August (no vernalisation requirement)
- Well suited to Canterbury and Southland regions including dryland sites
- Good all-round disease resistance profile and high tillering ability



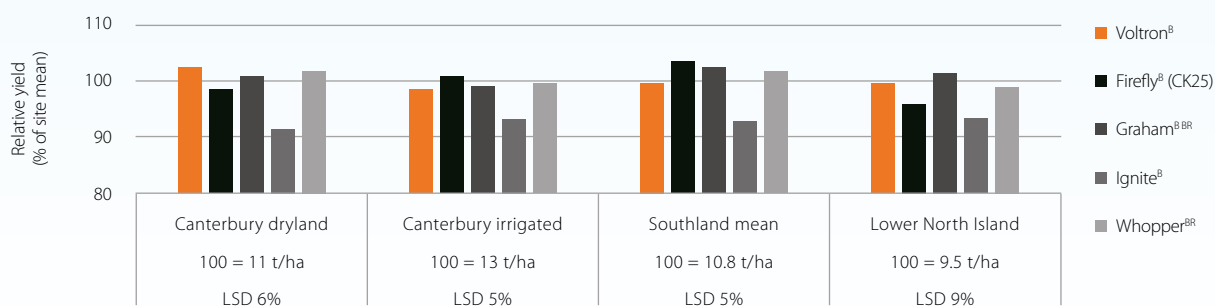
Description

VOLTRON wheat is an exciting feed and biscuit wheat cultivar bred by Limagrain UK and further developed by PGG Wrightson Grain (PGW Grain). It is a mid-long season alternative type with a very wide sowing window, has a high level of leaf and ear waxiness, high tillering ability and good straw strength. VOLTRON produces soft endosperm grain that is suitable for both milling industry and feed uses.

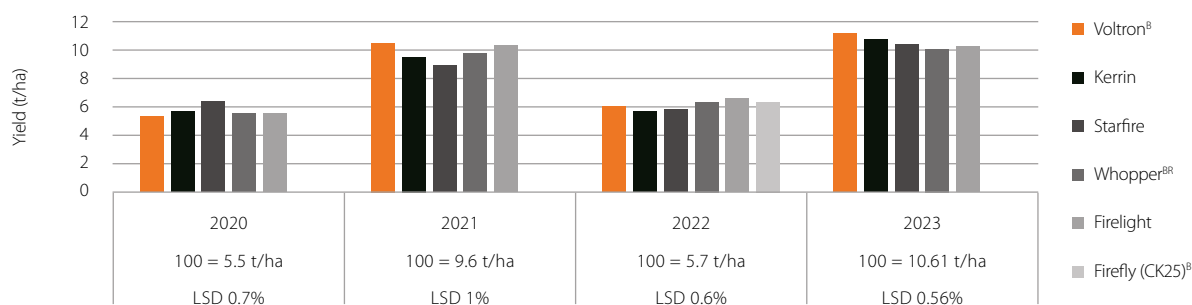
Yield

VOLTRON has consistently demonstrated very high stable yields across a range of trial sites throughout Canterbury and Southland with potential to establish itself as a preferred feed/biscuit wheat cultivar by growers. It is one of the leading cultivars for yield in FAR CPT Southland and Canterbury trials. In the absence of sharp eyespot, VOLTRON has also been one of the highest yielding second year wheat options.

FAR (CPT) Autumn Sown Trials (4 Year Mean)



FAR Autumn Sown 2nd Year Wheat Trials, South Canterbury, 2020-2023



CPT VOLTRON grain quality (4 year mean)	Canterbury	Southland	Lower North Island
Kernel weight (1000 seed weight)	46	46	40
Test Weight (kg/hl)	76	73	69
Protein content (%) (N% x 5.7)	10	9	10
Screenings (%)	0.8	0.8	1.3
Falling number (sec)	334	314	325

Grain quality

VOLTRON produces a medium sized grain which readily achieves the low proteins desirable for biscuit making and has a high level of sprouting resistance, making it less likely to deteriorate in quality with post-maturity rainfall. This, combined with low-moderate late maturity alpha amylase susceptibility, means that it consistently achieves acceptable milling industry falling numbers.

Time of drilling

The full yield potential of VOLTRON is most likely to be achieved from an autumn drilling window of April to late May. In addition, it is a top yielding variety compared to other options throughout winter and into early spring.

Speed of development

Month planted	Typical heading dates for VOLTRON in Canterbury
Late March	Early November
Late May	Mid November
Late June	Late November

Seed rate and tillering characteristics

VOLTRON has excellent tillering capacity, and target plant populations should be at the low to medium end of the range for autumn wheat.

Soil type, rotation and geography

VOLTRON has shown that it can perform well under a range of different soil types and environments, especially in Canterbury and Southland. VOLTRON, in trials to date, has yielded very well under irrigation and rainfed/dryland locations. It has only been an average performer in the North Island based on FAR CPT trial data to date so is not recommended for this region.

Disease resistance

VOLTRON has good resistance to *Septoria* leaf blotch and stripe rust and intermediate resistance to leaf rust and powdery mildew. In the 2020/21-2022/23 PGW Grain fungicide trials, VOLTRON produced moderate to high untreated yields and fungicide responses of 1.5-4.1 t/ha. Considering the disease profile, a low to moderate fungicide programme is recommended. However, based on 2022/23 PGW Grain trial, in areas prone to sharp eyespot, a robust T0 (Bolide or Kestrel) and T1 (Kestrel and Amistar) as well as plant growth regulator (PGR) programme is required. Please contact your local PGW Representative for site specific recommendations.

Disease resistance results:

Disease	PGW Grain disease nursery ratings (9 highly resistant, 1 highly susceptible)
Stripe rust	9
Leaf rust	6
<i>Septoria</i> leaf blotch	7
Powdery mildew	6
<i>Fusarium</i> head blight	7

Straw strength and height

VOLTRON is a medium height cultivar with good standing power. In the 2020/21 PGW Grain plant growth regulator (PGR) trial, in the absence of lodging, the greatest height reductions were observed under moderate to high input programmes (Cycocel + Moddus Evo at GS 31 or split applications at GS 30 and GS 32). The actual programme is determined by a combination of sowing date, seed rate, nitrogen use, crop thickness and yield potential. As with any cultivar, do not apply if the crop is under any form of stress. Please contact your local PGW Representative for site specific recommendations.