

Ignite

- High yielding biscuit wheat
- Consistent yields across trial sites
- Well suited to all cereal growing regions
- Good disease resistance, especially to Septoria leaf blotch
- Good biscuit flour qualities



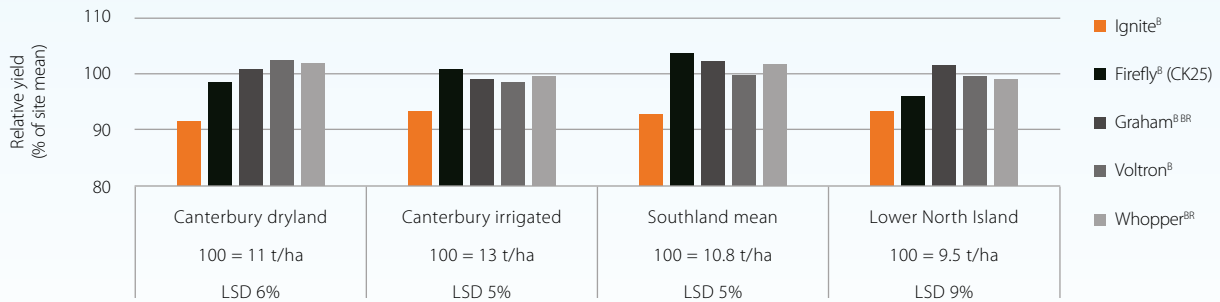
Description

IGNITE is a biscuit and feed wheat cultivar bred by Limagrain UK and further developed by PGG Wrightson Grain (PGW Grain). It has a compact, efficient plant type with stiff short-medium straw. IGNITE produces soft endosperm grain with good quality characteristics that are suitable for both biscuit and feed markets.

Yield

IGNITE has performed extremely well in PGW Grain and CPT trials, consistently out-yielding Empress across Canterbury over a number of years. Voltron is now setting the yield bar for biscuit wheat in most trials.

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



CPT IGNITE grain quality (4 year mean)	Canterbury	Southland	Lower North Island
Kernel weight (1000 seed weight)	46	47	40
Test Weight (kg/hl)	74	72	67
Protein content (%) (N% x 5.7)	11	10	11
Screenings (%)	0.6	0.5	0.9
Falling number (sec)	329	337	366

IGNITE is moderately resistant to pre-harvest sprouting. To protect falling number and marketability IGNITE crops intended for milling should be given harvest priority over feed wheat and most bread wheat milling wheat cultivars.

Time of drilling

For a winter wheat, IGNITE has a low vernalisation requirement and a very wide sowing window. Although the full potential of IGNITE is most likely to be achieved from an early drilling window of late March to late April. It has produced trial-topping yields from later plantings well into July.

Speed of development

Month planted	Typical heading dates for IGNITE in Canterbury
Mid April	Early – Mid November
Late May	Mid – Late November

IGNITE has intermediate maturity.

Seed rate and tillering characteristics

IGNITE has a moderate tillering capacity and a V-shaped tillering habit. It has similar characteristics to Starfire, with a slightly stronger ground covering ability. Therefore, target plant populations should be at the higher end of the ranges in the standard PGW Grain wheat seed rate guide (pg 5).

Soil type, rotation and geography

IGNITE has shown that it can perform well under a range of different soil types and environments including, the lower North Island. FAR trial results suggest it can be grown as a second-year wheat. However, it is a higher risk option than Starfire.

Disease resistance

IGNITE has a good disease resistance profile, being moderately resistant to stripe rust and powdery mildew. However, it is moderately susceptible to leaf rust and *Septoria* leaf blotch. Considering this disease profile, a moderate to high fungicide programme (T1, T2 and T3) is recommended. In the 2019/20-2022/23 PGW Grain fungicide trials, IGNITE has produced moderate untreated yields and fungicide responses of 3.3-4.2 t/ha. 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	8
Leaf rust	6
<i>Septoria</i> leaf blotch	6
Powdery mildew	7
<i>Fusarium</i> head blight	6

Straw strength and height

IGNITE is a short to medium height cultivar with good standing power. In most situations, this cultivar will require a moderate plant growth regulator (PGR) programme. 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.