

Firelight

- High yielding winter feed wheat
- High yield potential under a wide sowing window – April until June (medium vernalisation requirement)
- Well suited to Canterbury and Southland including dryland sites
- Excellent disease resistance profile, especially for Septoria leaf blotch



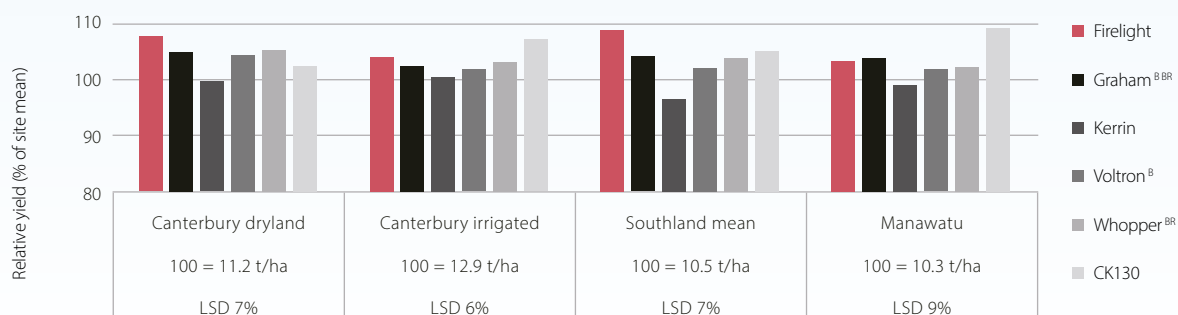
Description

FIRELIGHT is an exciting winter feed wheat cultivar bred by Limagrain UK and further developed by PGG Wrightson Grain (PGW Grain). It has a unique rich green leaf and ear colour, a spreading plant habit, medium height and moderate straw stiffness. FIRELIGHT produces a hard endosperm grain with acceptable grain quality characteristics for feed use.

Yield

FIRELIGHT has consistently demonstrated very high stable yields across a range of trial sites throughout Canterbury and Southland with potential to establish itself as one of the preferred feed wheat cultivars by growers. It is one of the leading cultivars under irrigation and excels in dryland Canterbury conditions.

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



| CPT FIRELIGHT grain quality (4 year mean) | Lower North Island | Canterbury | Southland |
|---|--------------------|------------|-----------|
| Kernel weight (1000 seed weight) | 45 | 49 | 49 |
| Test Weight (kg/hl) | 68 | 72 | 69 |
| Protein content (%) (N% x 5.7) | 10.2 | 10.0 | 9.1 |
| Screenings (%) | 1.1 | 1.1 | 0.7 |

Time of drilling

The full yield potential of FIRELIGHT is most likely to be achieved from an early drilling window of late March to late April. Due to its medium vernalisation requirement, it will also produce good yields from May and June plantings.

Speed of development

| Month planted | Typical heading dates for FIRELIGHT in Canterbury |
|---------------|---|
| Late March | Early November |
| Late May | Late November |
| Late June | Early December |

FIRELIGHT is an intermediate maturing cultivar.

Seed rate and tillering characteristics

FIRELIGHT has good tillering capacity, and target plant populations should be in the mid-range appropriate for differing sowing dates.

Soil type, rotation and geography

FIRELIGHT has shown that it can perform well under a range of different soil types and environments, especially in Canterbury and Southland. FIRELIGHT, in trials to date, has yielded very well under irrigation and topped the rainfed/dryland locations.

Disease resistance

FIRELIGHT has good resistance to *Septoria* leaf blotch and stripe rust and intermediate resistance to leaf rust and mildew. In PGW Grain agronomy trials (2019/20-2021/22), FIRELIGHT has produced the highest untreated yields and fungicide responses of 0.5-2.8 t/ha. Please contact your local PGW Representative for site specific recommendations. In 2022/23 trials, under higher leaf rust pressure, FIRELIGHT produced a fungicide response of 2.8-7.2 t/ha. Considering this disease profile, a low to moderate fungicide programme is recommended with a focus on leaf rust and fusarium head blight control. Please contact your local PGW Representative for site specific recommendations.

Disease resistance results:

| Disease | PGW disease nursery ratings (9 highly resistant, 1 highly susceptible) |
|-----------------------------|---|
| Stripe rust | 9 |
| Leaf rust | 4 |
| <i>Septoria</i> leaf blotch | 8 |
| Powdery mildew | 7 |
| <i>Fusarium</i> head blight | 6 |

Straw strength and height

FIRELIGHT is a medium height cultivar with moderate standing power. In PGW Grain agronomy trials (2021/22), in the absence of lodging, FIRELIGHT displayed a moderate response to a range of plant growth regulator (PGR) programmes with a high input programme (Cycocel + Moddus Evo at GS 30 and GS 32) providing the greatest height reduction. The use of PGRs is recommended, with the actual programme 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.