

KFW2102

- High yielding winter feed wheat
- Has performed well in all regions tested (Canterbury, Southland and lower North Island)
- Good all round disease resistance profile, especially stripe rust and powdery mildew
- Large grain and high test weights



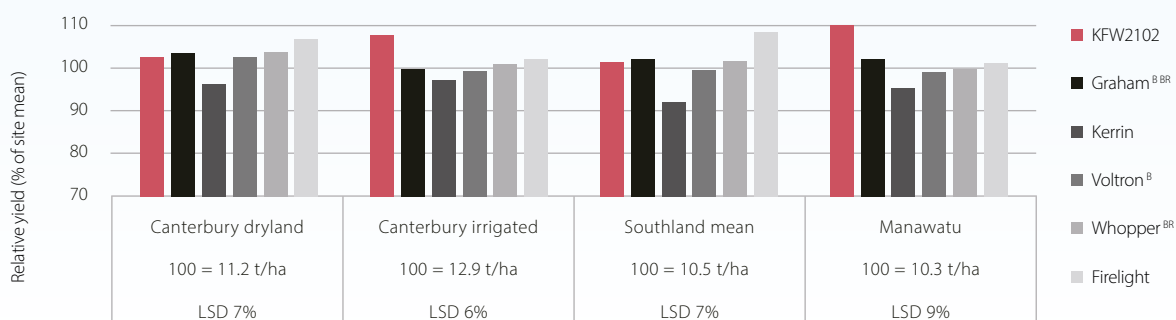
Description

KFW2102 is an exciting new winter feed wheat cultivar bred by Limagrain UK and further developed by PGG Wrightson Grain (PGW Grain). In the past four seasons in internal and FAR CPT trials, KFW2102 has produced consistently high yields across all grain growing environments. In CPT 2 trials for the first time this year, it was a top performer in Canterbury, Southland and the lower North Island. It has a good disease package and produces an intermediate hard/soft grain with high kernel weights and good test weights.

Yield

KFW2102 has consistently produced high yields across a wide range of sites, with adjusted 4-year mean yields of 102% - 109% across all South Island regions. In the lower North Island, the adjusted 4-year mean yield was 111%, making it the highest yielding cultivar in that region.

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



CPT KFW2102 grain quality (4 year mean)	Lower North Island	Canterbury	Southland
Kernel weight (1000 seed weight)	46	53	51
Test Weight (kg/hl)	70	77	75
Protein content (%) (N% x 5.7)	10.0	10.1	9.0
Screenings (%)	0.7	0.5	0.7

Time of drilling

Due to its strong vernalisation requirement, the full yield potential of KFW2102 is most likely to be achieved from an early drilling window of early April to late May. A PGW Grain sowing date (and rate) trial is being conducted at Kimihia on this cultivar for the 2023/24 season and should provide further information.

Speed of development

Month planted	Typical heading dates for KFW2102 in Canterbury
Late March	Early November
Late May	Mid – Late November
Late June	Early – Mid December

From autumn plantings, KFW2102 is an intermediate maturing cultivar. However, it should not be planted after the end of June in areas with mild winters as its high vernalisation requirement may result in excessively delayed heading. A PGW Grain sowing date and rate trial is being conducted at Kimihia on this cultivar for the 2023/24 season.

Seed rate and tillering characteristics

KFW2102 has moderate tillering capacity and a tight V-shaped tillering habit. Target plant populations should be at the higher end of the ranges. A PGW Grain sowing date and rate trial is being conducted at Kimihia on this cultivar for the 2023/24 season and should provide further information.

Soil type, rotation and geography

KFW2102 has shown that it can perform well under a wide range of different soil types and environments in Canterbury, Southland and the lower North Island.

Disease resistance

KFW2102 has good resistance to most cereal diseases in New Zealand, especially stripe rust and powdery mildew. Considering this disease profile and fungicide trials conducted at Mt Hutt last year by PGW Grain, a low to moderate fungicide programme is recommended. KFW2102 produced the highest treated yields of over 14 t/ha. It has also been entered into the PGW Grain agronomy trials (2022/23-2023/24), so more information will be available next year. 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	8
Septoria leaf blotch	7
Powdery mildew	9
Fusarium head blight	7

Straw strength and height

KFW2102 is a medium height cultivar with stiff straw. The use of plant growth regulators (PGRs) is generally 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. A PGW Grain PGR trial is being conducted on this cultivar for the 2023/24 season. Please contact your local PGW Representative for site specific recommendations.