

Discovery

- ✓ **Milling wheat quality with feed wheat yield potential**
- ✓ **Proven high yields across sites and years**
- ✓ **Alternative type for sowing from early May to September**
- ✓ **Tall, stiff-strawed, awnless cultivar with good standing ability**

DISCOVERY is a high yielding alternative (spring) wheat cultivar bred by Limagrain UK and further developed by PGG Wrightson Grain (PGW Grain) in New Zealand. It is a mid-season tall, awnless wheat with stiff straw and, moderate resistance to pre-harvest sprouting. It produces large grain with low screenings, medium test weights and medium to high falling numbers.



YIELD

DISCOVERY is one of the highest yielding spring milling wheat options commercially available in New Zealand, performing well in Canterbury averaging 103% of site mean. DISCOVERY also performs well under an autumn sowing window with yields similar to Catherine.

DISCOVERY is a very high yielding milling wheat. Therefore, particular attention to nitrogen management is required to ensure protein milling specifications are met.

TIME OF DRILLING

DISCOVERY is an alternative or spring wheat cultivar with a wide drilling window. Recommended drilling time is from early May through to late September.

SEED RATE AND TILLERING CHARACTERISTICS

DISCOVERY has good tillering capacity, although it is initially slow to develop. For maximum yield, autumn sowing rates should be increased according to the chart shown.

SOIL TYPE, ROTATION AND GEOGRAPHY

DISCOVERY has performed well across all Canterbury regions and the lower North Island. It has a free-threshing grain, so may not be the best choice at locations with extreme winds around maturity. It is not recommended as a second-year wheat.

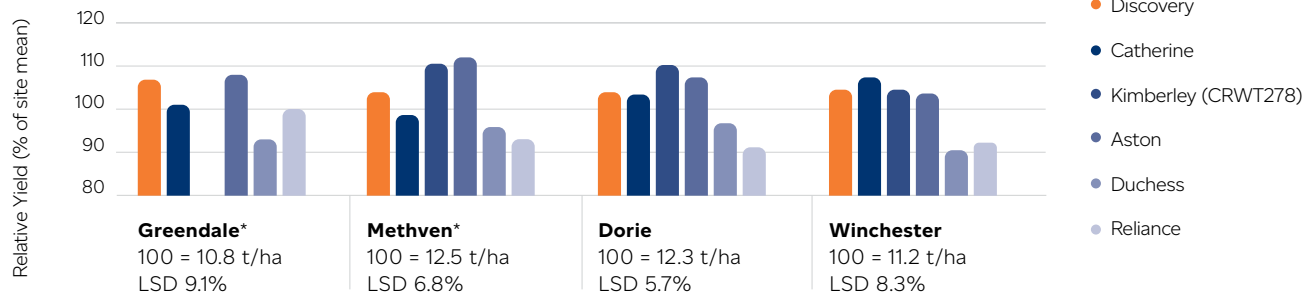
DISEASE RESISTANCE

DISCOVERY has a good disease resistance profile, mostly resistant to leaf rust and powdery mildew with intermediate adult plant resistance to stripe rust and *Septoria* leaf blotch. However, it is moderately susceptible to seedling stripe rust. Considering this disease profile, fungicide programmes should be tailored to target seedling stripe rust early on if present. This approach should protect against *Septoria* leaf blotch also, especially from early plantings. Please contact your local PGW Representative for site specific recommendations.

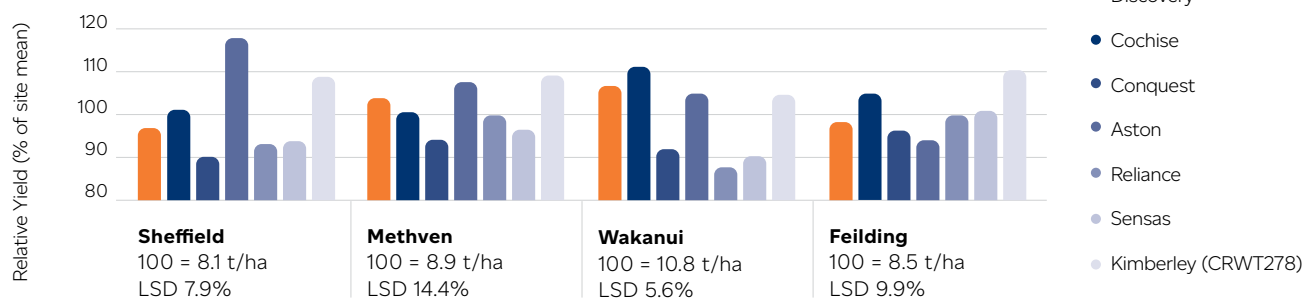
STRAW STRENGTH AND HEIGHT

DISCOVERY is a tall cultivar with good standing power. A robust plant growth regulator (PGR) programme is recommended for this cultivar especially for early sowings. Spring sowings of DISCOVERY will generally not require as high rates of PGRs. 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.

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



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



GRAIN QUALITY

DISCOVERY (CPT 4 Year Mean)

	Canterbury Autumn	Canterbury Spring	Lower North Island Spring
Kernel weight (1000 seed weight)	51	47	50
Test Weight (kg/hl)	77	74	77
Protein content (%)	12.0	12	11.7
Screenings (%)	0.5	0.9	0.3
Falling number (sec)	349	346	350

PGW GRAIN DISEASE NURSERY RATINGS

(9 highly resistant, 1 highly susceptible)

Stripe rust	6
Leaf rust	7
Septoria leaf blotch	5
Powdery mildew	8
Fusarium head blight	6

PLANT POPULATIONS

Typical plant populations for DISCOVERY in Canterbury:

Month(s) Planted	Plants/m ²
April	125-150
May	150-200
June & July	200
August	200-250
September	250-300

SPEED OF DEVELOPMENT

Typical heading dates for DISCOVERY in Canterbury:

Month Planted	Heading Date
Late May	Mid – Late November
Late June	Late November
September	Mid-December

DISCOVERY is an intermediate maturing cultivar at harvest.