

Laureate

- High yielding, multipurpose spring barley
- Bred as a dual distilling / malting barley but with high grain yields
- Good disease profile with good disease resistance to net blotch and powdery mildew
- Large grain, average test weights and very low screenings with low proteins



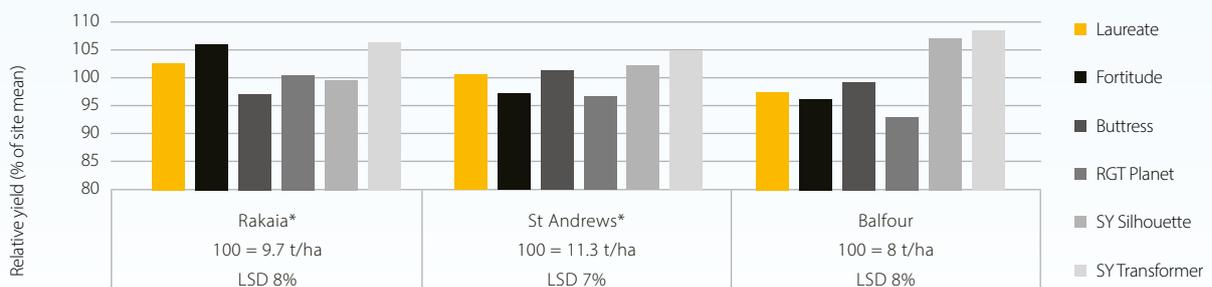
Description

From the proven Syngenta spring barley breeding programme, LAUREATE has been developed in New Zealand in conjunction with Cropmark Seeds Ltd as head licensee and PGG Wrightson Grain (PGW Grain). LAUREATE is a spring barley with high yield potential that is suitable for all end uses: malting, distilling and feed. It has an intermediate-late maturity and can be planted late or under dryland but has high yield potential with irrigation and appropriate inputs.

Yield

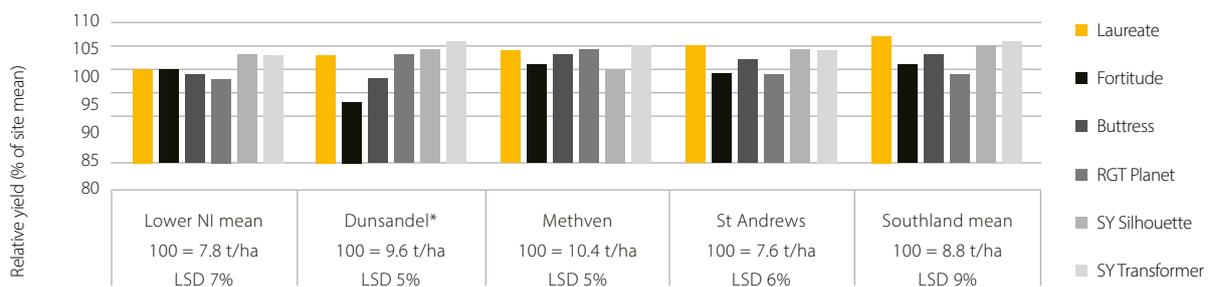
LAUREATE has high yield potential under all environments but has excelled when conditions turn dry. Under irrigation or high rainfall it requires appropriate straw management to prevent brackling so as to maintain its high yield potential across all South Island regions. In the lower North Island it has been a leading cultivar in the past three seasons.

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



*Rakaia and St Andrews are only 3 year means

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



*Dunsandel is a 3 year mean (no trial data from 2021-22)

CPT LAUREATE grain quality (4 year mean)	Canterbury (Autumn)	Southland (Autumn)	Lower NI (Spring)	Canterbury (Spring)	Southland (Spring)
Kernel weight (1000 seed weight)	48	50	56	55	58
Test Weight (kg/hl)	61	61	60	61	62
Protein content (%) (N% x 5.7)	11.6	11.3	11.8	11.6	12.5
Screenings (%)	6.7	4.9	2.1	4.0	2.6

Time of drilling

LAUREATE has proven itself in autumn trials but due to its moderate straw strength and high plant growth regulator (PGR) requirement it is recommended for spring sowing only. Spring sowing is typically from early August to late September, except in the lower North Island where drilling can be as late as November.

Speed of development

Month planted	Typical heading dates for LAUREATE in Canterbury
May	Late October
September	Late November

LAUREATE has an intermediate-late maturity at harvest.

Seed rate and tillering characteristics

LAUREATE is a medium to high tillering variety and target plant populations should be within the standard PGW Grain barley seed rate guidelines (pg 5).

Soil type, rotation and geography

LAUREATE can be planted on all soil types where barley is already grown and can be grown as a first or second-year cereal. As a second-year cereal, barley is generally more take-all tolerant than wheat, however, yield will be lower than a first-year barley crop.

Disease resistance

LAUREATE is moderately resistant to net blotch and powdery mildew. It has intermediate resistance to scald and leaf rust. Considering this disease profile, LAUREATE will need a medium fungicide programme in most instances but may need more where there is high pressure for scald and leaf rust. Please contact your local PGW Representative for site specific recommendations.

Disease resistance results:

Disease	PGW disease nursery ratings (9 highly resistant, 1 highly susceptible)
Scald	6
Net blotch	8
Leaf rust	6
Powdery mildew	8

Straw strength and height

LAUREATE is a medium height cultivar with moderate straw. Autumn sowings, although not advised, will require a robust PGR investment, especially under irrigation. In the spring, this cultivar will still require a moderate to high PGR programme to prevent brackling and maintain high yields. The actual programme is determined by a combination of local conditions, management and yield potential. As with any cultivar, do not apply PGR if the crop is under any form of stress. Please contact your local PGW Representative for site specific recommendations.