

SY Transformer

- ✓ **One of the highest yielding commercially available spring and autumn cultivars in FAR CPT trials**
- ✓ **Suited to all sowing times and conditions in both the spring and autumn**
- ✓ **Dual-purpose feed and malting barley**
- ✓ **Large grain, average test weights and very low screenings**

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

YIELD

SY TRANSFORMER has high yield potential under all grain growing environments but has excelled under 'normal' conditions where it can yield more than other barleys. It is one of the highest yielding varieties in both the FAR autumn and spring sown trials when looking at the 4 year means, showing consistency across years and environments.

TIME OF DRILLING

SY TRANSFORMER has proven itself in autumn and spring conditions, so has an optimum sowing window from May right through to late September and beyond. Growing conditions and yield potential always dictate plant growth regulator (PGR) requirements, and even though SY TRANSFORMER has a moderate to stiff straw, it will benefit from a moderate PGR programme especially in the autumn and in very high growth environments.

SEED RATE AND TILLERING CHARACTERISTICS

SY TRANSFORMER is a medium to high tillering variety, and target plant populations should be within the standard PGW Grain barley seed rate guidelines (pg 5). Work done by Cropmark Seeds Ltd has shown yields are maximised by targeting 175-200 plants/m² in the autumn.

SOIL TYPE, ROTATION AND GEOGRAPHY

SY TRANSFORMER 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

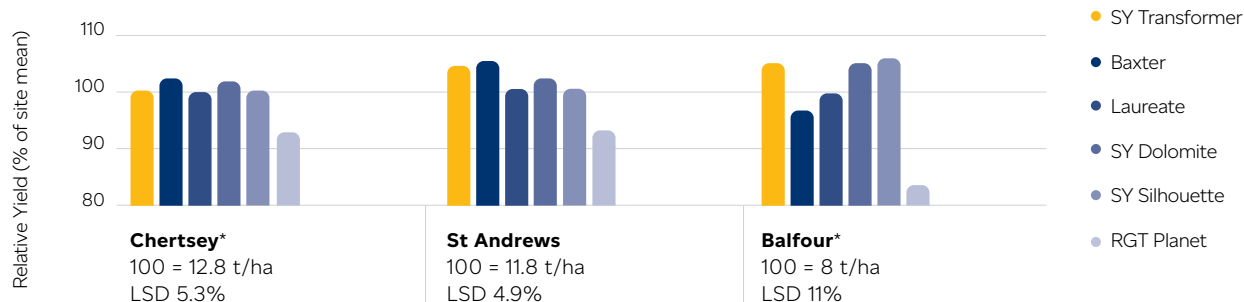
SY TRANSFORMER is mostly resistant to powdery mildew, and moderately resistant to scald. However, it is moderately susceptible to net blotch and leaf rust. Considering this disease profile, SY TRANSFORMER will need a moderate to robust fungicide programme. In the 2022/23 PGW Grain fungicide trial, SY TRANSFORMER produced a moderate untreated yield and fungicide responses of 2.4–5.6 t/ha and 2.1–2.8 t/ha from an autumn and spring sowing, respectively. Please contact your local PGW Representative for site specific recommendations.

STRAW STRENGTH AND HEIGHT

SY TRANSFORMER is a medium height cultivar with moderate to stiff straw. Autumn sowings will require a robust plant growth regulator (PGR) investment, especially under irrigation. In 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.

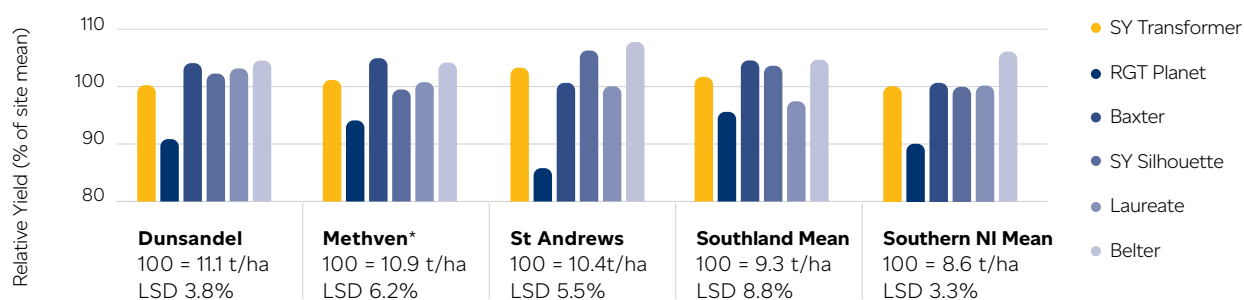
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FAR (CPT) Autumn Sown Trials (4 Year Mean)



*Chertsey and Balfour are only a three year mean (no data from 2023-24 and 2024-25 respectively).

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



*Methven is a 3-year mean (no data from 2023-24).

GRAIN QUALITY

SY TRANSFORMER (CPT 4 Year Mean)

	Canterbury Autumn	Southland Autumn	Canterbury Spring	Southland Spring	Lower North Island Spring
Kernel weight (1000 seed weight)	51	48	56	55	59
Test Weight (kg/hl)	62	62	62	62	64
Protein content (%)	11.2	11.8	11.0	12.8	10.5
Screenings (%)	3.9	6.7	2.5	3.5	1.1

PGW GRAIN DISEASE NURSERY RATINGS

(9 highly resistant, 1 highly susceptible)

Scald	6
Net blotch	4
Leaf rust	5
Powdery mildew	8

SPEED OF DEVELOPMENT

Typical heading dates for SY TRANSFORMER in Canterbury:

Month Planted	
May	Late October
September	Late November

SY TRANSFORMER has an intermediate development rate for harvest maturity.