



## SY Silhouette Spring barley

SY Silhouette is a new high yielding feed barley bred by Syngenta in the UK and developed in NZ in conjunction with Cropmark seeds as head licensee. SY Silhouette is a late maturing barley with stiff straw and excellent disease resistance, meaning it has a wide sowing window from late April through to October and is easy to manage.

SY Silhouette produces a large grain with average screenings and test weight.

### Disease and agronomic profile for SY Silhouette barley (FAR 2019/20 autumn cultivar booklet).

Scald	Moderately Resistant
Leaf Rust	Moderately Susceptible *
Net Blotch	Moderately Resistant
Mildew	Moderately Resistant
Straw strength	Medium - Stiff
Lodging risk	Low

*\*There are no commercial barley cultivars with a higher rating for leaf rust*

### Yields

SY Silhouette has produced reliable yields across all sowing times, whether it be dryland or irrigated, for autumn sowing or for spring sowing.

*Table 1. Yields from 2017/18 autumn barley trials at St Andrews (dryland, sown 22nd May) and Chertsey (irrigated, sown 15th May).*

	St Andrews	Chertsey
<b>SY Silhouette</b>	<b>9.1 a</b>	<b>12.3 a</b>
Tavern	8.2 b	11.2 c
Cassia	7.4 c	10.4 c
Mean	8.2	11.3
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CV%	5.0	1.5
LSD	0.7	0.3

Table 2. Yields (t/ha) from the FAR autumn sown CPT2 cultivar trials 2019/20.

	St Andrews	Gore	Overall
<b>SY Silhouette</b>	<b>11.29</b>	<b>9.35</b>	<b>10.3</b>
Laureate	11.01	8.14	9.6
Sanette	11.01	7.46	9.2
RGT Planet	10.64	7.57	9.1
Fortitude	9.86	7.62	8.7
Tavern	9.74	7.44	8.6
Mean	10.8	8.2	9.5
LSD	0.9	0.3	
CV%	5.6	2.7	

### When to sow

SY Silhouette is a spring barley and can be sown from late April / early May in the autumn right through to October/ early November in the spring.

### Sowing rate

The target plant population for SY Silhouette is 175 plants/m<sup>2</sup> from late April and May sowings. Sowing rates should then be increased through the winter to 250 plants/m<sup>2</sup> in the spring sowing, based on a 55g Thousand Grain Weight, 95% germination and 95% emergence. This will result in a sowing rate of 107 kg/ha in the autumn and 150 kg/h in the spring.

### Timing of nitrogen applications

Management of SY Silhouette is similar to other spring barley cultivars where for autumn sown crops nitrogen is delayed until late tillering, early stem extension so it wont produce excess vegetation and increase lodging risk. Therefore after ensuring good establishment, nitrogen can be split into 3 to 4 applications with the total N split being 30%, 40%, 30% (GS22-28, GS31-32, GS33-39) or evenly split over 4 applications.

For spring sown crops this can be brought forward to ensure adequate tillering and rapid growth with the total N split being 50% - 50% (GS22-28, GS31-32) ensuring there is adequate N at sowing for rapid establishment.

### Plant growth regulators

SY Silhouette has a medium to stiff straw with low levels of brackling and has a low lodging risk. However with all barley cultivars it is advisable to apply some PGR, especially under high yield potential situations in order to maximize yield, and minimize harvest losses.

PGR Timing (Autumn sown)	Product/Rate	Comments
GS31-32	0.4 L/ha MODDUS EVO® or split 50% at GS30 & 32	Increase stem strength and thickening to reduce the risk of lodging.
GS49	0.8 – 1.0 L/ha Terpal*	Reduce the risk of neck break/brackling.

### Fungicides

SY Silhouette has excellent resistance to leaf rust, net blotch and scald. An autumn fungicide programme should target green leaf retention and prevention of *Ramularia*, while controlling Scald over the winter.

Fungicide Timing	Product/Rate	Comments
GS26-30/31	Proline* 0.2-0.4 L/ha	Post-winter clean-up spray if required.
GS32	Triazole + SDHI (such as SEGURIS FLEXI®) + Folpet*	Preventative control of scald and net blotch. Start <i>Ramularia</i> prevention.
GS39-49	Triazole + SDHI (such as SEGURIS FLEXI®) + Folpet*	Continued control of scald and net blotch, plus rust and <i>Ramularia</i> control.
GS60	Triazole + Strobilurin (such as AMISTAR®)	Top up fungicide. Maintain green leaf retention and maximize yield potential.

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