

AUGUSTA – new winter bean variety

Winter field bean

BREEDER/DISTRIBUTOR

NPZ/Saaten-Union

VARIETY DESCRIPTION

AUGUSTA got registration in Germany in 2018 after two years of performance trials. It is complementary to HIVERNA, which is on the German list since a long time.

In the official trials, AUGUSTA performed better in yield than HIVERNA. It also showed a comparable winter hardiness. AUGUSTA produces shorter plants than HIVERNA and has a better score for standing ability.

Winter beans may be favourable in areas with a high likelihood of drought in spring / early summer.

Winter beans have the potential to mature earlier than spring beans. Thus they may serve as a pre-crop for early-sown winter crops, such as winter oilseed rape or winter barley.

AUGUSTA has a good stability which is important for an easy harvest.

Agronomic characters

Yield potential:	medium - high
Protein content:	medium
Protein yield:	medium
Grain weight:	medium
Begin of flowering:	medium
Maturity:	medium
Lodging resistance:	high
Plant length:	medium
Resistances	
Ascochyta:	medium
Botrytis:	medium
Rust:	medium

Crop husbandry

Sowing time: Depending on the regions, winter beans should be sown from the end of September to the beginning of November.

Sowing depth and density: on medium soil types: 8-10 cm; on heavy soils: 6-8 cm sowing depth. In favourable planting conditions 35-40 viable seeds / m² - normal planting conditions 40-45 viable seeds / m² - unfavourable planting conditions 50-55 viable seeds / m².

Row spacing: from 20 to 45 cm for favourable yield; in order to get the proper sowing depth wider rows are recommended

Fertilisation: Nitrogen application is not necessary. For medium supplied soils and a medium yield level: 40-60 kg P₂O₅/ha; 100-130 kg K₂O/ha, 20-50 kg MgO/ha are recommended.

Weed Control: *Should be applied according to national-registered plant protection devices and local recommendations.* Herbicide treatment only possible in pre-emergence. Field beans provide good conditions for mechanical weed control.

Diseases and Insect Protection: It is recommended to pay attention to Sitona weevil (post-emergence period), black bean aphid (from beginning of flowering onwards), Bruchus field bean beetle (begin of flowering onwards). Pesticide strategies have to be fine-tuned with local advisory institutions. In case of occurrence of chocolate leaf spot disease it is easy to control with fungicidal spray.

Information level 2021

All variety descriptions have been prepared in accordance to the best of our knowledge, considering trial results and observations. A guarantee or a liability in individual cases is not possible, because the growth conditions are subject to substantial fluctuations.