



## OUTSTANDING QUALITIES

- ◆ **VERY FAST MATURING**
- ◆ **EXCELLENT YIELD POTENTIAL**
- ◆ **EXCELLENT HEAT TOLERANCE**
- ◆ **VERY UNIFORM CURDS**
- ◆ **EXCELLENT WRAPPING**

**Alston\*** is a new variety for the summer season. Unlike other cauliflower varieties, **Alston\*** withstands summer heat. Leaves tend to wrap around the head and provide protection against the sun. **Alston\*** is an extremely fast maturing variety. It produces dense white curds with a typical dome shape which is perfect for pre-packaging and processing.

## SPECIAL VARIETAL REQUIREMENTS

- This is a variety for spring, summer and autumn production, winter trials still in process
- Contact area representative for sowing guide

CHARACTERISTIC	Alston*
KIND	F1 hybrid cauliflower ( <i>Brassica oleracea</i> L. convar. <i>botrytis</i> (L.) Alef. var. <i>botrytis</i> L.)
SEASON	Spring, summer
MATURITY	Early (around 65 – 85 days from transplant – depending on season)
CURD SIZE	Medium
CURD SHAPE	Dome
CURD WEIGHT	500 – 800 g (could be bigger depending on spacing)
CURD COMPACTNESS	Very good
CURD COVER	Good
CURD COLOUR	White to ivory
CURD TYPE	White to ivory, dense dome curds
PLANT SIZE	Medium to large
FIELD HOLDING	Good
YIELD POTENTIAL	Very high
SUGGESTED SPACING	35 000 to 45 000 plants per ha
MARKET SEGMENT	Pre-packing, processing
SPECIAL FEATURES	Smaller frame allowing for a higher planting density

Characteristics given are affected by production methods such as soil type, nutrition, planting population, planting date and climatic conditions. Please read disclaimer.

**Disclaimer:** This information is based on our observations and/or information from other sources. As crop performance depends on the interaction between the genetic potential of the seed, its physiological characteristics, and the environment, including management, we give no warranty express or implied, for the performance of crops relative to the information given nor do we accept any liability for any loss, direct or consequential, that may arise from whatsoever cause. Please read the Sakata Seed Southern Africa (Pty) Ltd Conditions of Sale before ordering seed.

**Resistance:** is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure (HR = High resistance, IR = Intermediate resistance).

\* **Experimental:** This variety does not appear on the current South African Variety list, but has been submitted for registration.

**Recent version:** Kindly contact Sakata or Area Representative for the most recent version of this Technical Bulletin.

QUALITY

RELIABILITY

SERVICE

SAKATA.CO.ZA

## GENERAL TIPS FOR CAULIFLOWER PRODUCTION

### Climatic requirements

Cauliflower has very similar temperature and moisture requirements for optimum growth and development as cabbage, but is much less adapted to extreme heat or cold. The average minimum for cauliflower is about 7 °C. The plant can recover completely when light frost occurs at a young stage. However, if mature heads are not protected by leaves they can be easily damaged by a few days of frost, especially during sudden cold periods. Quality and yield are poorly affected by hot weather and cauliflower maturing in summer will often have poorer attributes. Production is therefore favoured from autumn through to spring, except in very cold areas. Growers in cooler areas are able to take advantage of good production during summer when there is a demand for quality cauliflowers. However, there are particular varieties that have been bred for heat tolerance and can therefore produce good quality heads during summer months.

### Transplanting

In summer, 4 week old seedlings are ideal, whilst in winter this may have to stretch to 8 weeks. A good norm to follow is to transplant after the development of the first true leaf. Hardening-off is especially necessary when the plants are to be planted out during warm conditions. Seedlings should be carefully inspected before transplanting into the field. Check that the terminal bud is not damaged as these results in blind unproductive plants that should be discarded. The ideal seedling should be healthy, have no more than 3 true leaves, be 125 - 150 mm tall, have a straight stocky stem and not be root-bound.

### Crop rotation

Crop rotation is important in reducing soil borne pathogens and pests surviving in infected plant residues and with a specific host range.

Rotations are often designed to include a green-manure crop in order to increase the organic content of a soil. Crops belonging to the family Brassicaceae (cabbage, cauliflower, broccoli, Brussels sprout, Chinese cabbage, kohlrabi, turnip, radish, kale, horseradish, watercress & various mustards) should not be planted in the same field more than once every three years, but can follow any unrelated crop in a rotational system. Cruciferous weeds must be rigorously controlled during the period when brassica crops are not grown otherwise much of the benefit of crop rotation can be lost. Green mealies and legumes are the most suitable green-manure crops for brassicas. These crops should be ploughed in while they are still green and at least 8 weeks before planting.

### Riceyness of cauliflower

#### Symptoms

- The curd appears uneven and fuzzy and the floral parts may begin to grow up through the head prematurely

#### Causes

- Planting a variety in the incorrect slot
- Environmental and water stress

#### Control

- Plant varieties in their suggested slot



### Hollow stem

Also known as boron deficiency to some – is very common, especially in summer when plants tend to grow much faster due to the higher temperatures. Broccoli and cauliflower has a high requirement for boron, which makes this deficiency very common. The name is self-explanatory, as the plants grow, the stems become hollow and necrotic due to internal splits in the stem. With the hollow stems, brownish water soaked lesions appear on the broccoli florets and cauliflower curds. This disorder also leads to a much shorter shelf-life, since the product will start rotting from the inside. Hollow stem symptoms tend to develop as the soil profile dries out after some extended rainfall. Hollow stem is also more common when there is an excessive amount of nitrogen present. Nitrogen is one of the most important elements for growth stimulation, and when this growth is over stimulated, other elements such as calcium and boron (responsible for strength and elasticity of cell walls) become diluted in the new tissues, leading to cell breakdown and splitting of the stems.



**Disclaimer:** This information is based on our observations and/or information from other sources. As crop performance depends on the interaction between the genetic potential of the seed, its physiological characteristics, and the environment, including management, we give no warranty express or implied, for the performance of crops relative to the information given nor do we accept any liability for any loss, direct or consequential, that may arise from whatsoever cause. Please read the Sakata Seed Southern Africa (Pty) Ltd Conditions of Sale before ordering seed.

**Resistance:** is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest or pathogen pressure (HR = High resistance, IR = Intermediate resistance).

\* **Experimental:** This variety does not appear on the current South African Variety list, but has been submitted for registration.

**Recent version:** Kindly contact Sakata or Area Representative for the most recent version of this Technical Bulletin.

QUALITY

RELIABILITY

SERVICE

SAKATA.CO.ZA