

Adzuki Bean

Origin: China and Japan

Edible portion: Dry seed, fresh green pods

VARIETIES

Divided into two distinct market classes based on size:

- Seed size
- Regular-sized (<4.2 mm)
- Dainagon type (>4.8 mm)

Seed colour varies from maroon to solid black, blue-black, grey, brown, straw, white and various mottled combinations of these.

SOWING AND PLANTING

Climatic Conditions: Adzuki bean is a summer crop and requires frost-free conditions throughout its growing period. Excessive summer heat can result in poor quality seed and reduced yield from a condition called "Gummy pod".

Preferred Soil Type: Well structured, well drained, heavy rich loam.

Seed Required: 25-40 kg/ha

Optimum Soil Temperature Range for Germination: 15.0-30.0 °C

Emergence Time: 6-16 days, optimum 8 days

Plant Spacing: In-row 5.0-7.5 cm, between rows 30.0-45.0 cm

Plants per Hectare: 250,000-660,000, optimum population 260,000

Method of Propagation: Sown directly in situ with precision seeding equipment

Sowing Dates: Frost-free areas:- Late September to early October

Frost susceptible areas:- Late October to early November

Other Sowing and Planting Information: Wider row spacings of 45.0 to 75.0 cm which allow for inter-row cultivation for weed control have produced good results.

ROTATION

Rotation is essential to reduce the potential build-up of soil-borne diseases, particularly sclerotinia disease. Normal rotational practices of one year in three should be practiced.

IRRIGATION

General: The crop is reported to be to some extent drought resistant. Overhead irrigation can lead to botrytis, sclerotinia and bacterial stem rot diseases occurring in the crop.

Specific Requirements: Soil moisture must be adequate at sowing and irrigation prior to sowing in a dry season may be necessary. Adequate moisture at the flowering stage is essential to encourage a good set of pods.

Safe Fertilisers

66 Chum Street QLD. 4303

Ph: (07) 3282 0801 Fax: (07) 3282 0501 Email: neville@safefertilisers.com.au

Adzuki Bean Program

Seed Coating; Vital Phos @ 4lt/tonne of seed with sufficient water to ensure adequate coating of the seed.

Ground preparation:

Apply; 1 tonne/ha Lime **or** Liquid Lime @ 20lt/ha in 300lt/water

Pre Plant

Apply 100 Kg/Ha Alroc Extra Phos

Apply 10lt/ha Vital Phos, Boom spray with 200lt/ha water

At Planting

Option 1; Apply 75 Kg/Ha NPK 9.5.7 Supablend

With 8lt Vital Phos in 200lt water Boom sprayed onto soil before planting

Option 2; Apply 65kg/ha NPK 15.3.8 Supablend

With 8lt Vital phos in 200lt water Boom sprayed onto soil before planting

Option 3; Liquid Injection- Vital Phos @ 20lt/ha in 300lt water

In Crop Fertiliser requirements:

Nitrogen:

Alroc CBM @ 60kg/ha side dressed

Multi Nutrients:

2 x applications of Vital Mix@ 6lt/ha in 200lt water

This can be folia sprayed, aerial applied or put through an irrigation system.

The above mentioned application rates can be adjusted to what is economical. These adjustments may not provide the ideal nutrient ratios but should replace some of the nutrients that are removed by the crop.

Neville Janke

Horticulturist/ Agronomist

neville@safefertilisers.com.au

Disclaimer

The above program will be affected by soil variation, testing errors, seasonal factors and management skills. Any recommendation should be acted upon as part of an ongoing fertiliser program. No responsibility can be accepted for any of the above matters or other matters that are beyond our control.

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