NEW EARLY MATURING BUSH BEAN VARIETIES FOR UGANDA

Helping Reduce Vulnerability due to moisture Stress for better Productivity

HOW TO GROW THESE BUSH BEAN VARIETIES

Seed bed preparation.

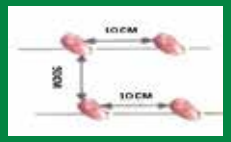
Prepare a fine seedbed to ensure uniform and proper growth. This reduces the number of weeding's. In case of couch grass and other notorious weeds, spray with herbicide once; three weeks before plough.

Planting.

Plant when there is enough moisture in the soil. Excessive moisture may lead to rotting of seeds or diseased seedlings. Plant clean, treated and sort-ed seed to reduce damage by insect pests and diseases.

Spacing

Space at 50cm between rows and 10 cm between plants.
Plant one seed per hole.



Fertilizer application

In case of poor soils apply fertilizer. Use well decom-posed organic manures like farm yard, crop residues or green manure depending on availability. Also inorganic fertilizers like NPK (2 bags/ha), Urea (25 kg/Ha) or DAP (2 bags/Ha) can be used depending on initial soil fertili-ty status.

Weeding

Keep your bean field weed free till harvesting. Avoid weeding during flowering as this may lead to flower drop and reduced yields.

Pest management.

Beans are commonly attacked by bean stem maggot (Bean fly), flower Thrips and aphids. To minimize losses due to bean fly: plant early at the onset of rains, earth up at first weeding, improve soil fertility and seed dress with Endosufan at the rate of 10mls per 10 kg of seed the day before planting. To control flower Thrips, aphids and other insect pests, use any recommended SYSTEMIC pesticide. Spray when you see the first flower and repeat after 14 days.

Disease management

All these bean varieties are tolerant to anthracnose, Angular leaf spot, Common bacterial blight, Rust and Bean common mosaic. However, they may be at-tacked by bean root rot. To minimize the effect of diseases: 1) Plant clean or disease free seed, 2) Im-prove soil fertility, 3) Practice crop rotation, 4) Rogue or remove infected and damaged plants, 5) spray aphids which transmit viral diseases and other fungal disease using a combination SYSTEMIC pesticides and Fungicides. Foliar fertilizers may also be applied in combination for better yields.

Harvesting, threshing, sorting, drying and stor-age

Harvest early to avoid weevil infestation by pulling the whole plant from the ground. Thresh by beating with sticks when the pods are fully dry, winnow and then sort by hand to remove disease stained and off type seeds. Dry completely and store in a dry place in clean bags or containers on a raised platform for later use.



NABE 15

- Released 2010
- Bush type
- Medium seeded
- Market class
- Early maturity (60-70 days)
- Tolerant to bean anthracnose
- Suitable for all regions
- Tasty and swells on cooking
- High yield (1800-2000 kg/ha)



NABE 16

- Released 2010
- Bush type
- Medium seeded
- Market class
- Early maturity (65-75 days)
- Tolerant to bean anthracnose
- Suitable for all regions
- Tasty and swells on cooking
- High yield (2000-2500 kg/ha)



NABE 17

- Released 2012
- Bush type
- Red and dirty white mottles in colour
- Market class quality
- Medium seeded and oval shaped
- Maturity (58-75 days)
- Yield (2000-2500 kg/ha)
- Tolerant to anthracnose , BCMV, ALS, and other diseases



NABE 18

- Released 2012
- Bush type
- Large seeded (49.3 g/100 seeds)
- Dark seed colour preferred in northern Uganda (Purple mottled)
- Maturity (63-78 days)
- Yield (2000-2500 kg/ha)
- Resistant to anthracnose BC
- MV, ALS & tolerant to Root rot diseases



NABE 19

- Released 2012
- Bush type (indeterminate bush)
- Red mottled in colour
- Market class quality
- Medium seeded and kidney shaped
- Maturity (61-70 days)
- Yield (2000-2500 kg/ha)
- Resistant to anthracnose , BCMV, ALS, and tolerant most of other diseases



NABE 20

- Released 2012
- Market class quality (Kanyebwa type)
- Medium seeded (41 g/100 seeds)
- Maturity (58-70 days)
- Yield (1600-2200 kg/ha)
- Bush type (indeterminate bush)

Tolerant to anthracnose, BCMV, ALS, and most of other diseases



NABE 21

- Released 2012
- Bush type
- Dirty yellow with red tan mottles in colour
- Medium oval shaped seed
- Market class quality (Kanyebwa type)
- Maturity (58-70 days)
- Yield (1500-2000 kg/ha)
- Tolerant to anthracnose, BCMV, ALS, and most of other diseases



NABE 22

- Released 2012
- Northern Uganda Market
- Medium seeded (42 g/100 seeds)
- Maturity (58-70 days)
- Yield (1500-2000 kg/ha)
- Bush type (determinate bush)
- Resistant to anthracnose, BCMV, ALS, and tolerant to root rots and most of other disease



NABE 23

- Released 2012
- Bush type (determinate bush)
- Market Class (Kanyebwa type)
- Large seeded and kidney shaped
- Dark tan and dirty red stripes
- Maturity (64-75 days)
- Yield (2000-2500 kg/ha)
- Tolerant to anthracnose, BCMV, ALS, root rots and most of other diseases

UGANDA LEGUMES RESEARCH PROGRAMME

Restoring resistance in released bean varieties and developing new genotypes with acceptable consumption and market qualities

Pan-Africa Bean Research Alliance PABRA

CIAT
Centro Internacional de Agricultura Tropical
Desde 1967 Ciencia para cultivar el cambio

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