

### BUTTERNUTS PRODUCTION GUIDELINES FOR 1 HECTARE

**Seed:** 2-4 kg per hectare for a plant population of up to 10,000 plants per hectare.

**Soil:** Fertile, well-drained soil; ideal are sandy loams or silty loams that warm up quickly.

**Optimum Temperatures:** 18-21°C at night and below 29°C during the day. Production is typically restricted to summer, except in the southeaster

**Compost/Manure:** Apply 10-15 tons per hectare about a month before planting.

**Planting: General:** March to August, Higher altitudes: Late July to mid-November, Early production: Early July to August.

**Spacing:** 0.5-0.7m within rows and 1.2-1.5m between rows.

**Days to Harvest:** 60-120 days, depending on variety. Harvest duration is typically 30 days, with heads cut and harvested individually.

FERTILIZER REQUIREMENTS		PRODUCT	RATE/HA	
Basal dressing:	Compound C	5:15:12 AN	500kgs	Generally recommended to apply all at or before transplanting your crop Split apply, top dress at first fruit set
Top dressing:	Split apply Ammonium nitrate	34.5% N	150kgs	
HERBICIDES, FUNGICIDES, INSECTICIDES				
Problem	Product	Application rate	Application / comments	Product for 1 ha
Cutworms	Fenvelerate 20EC	200ml per hectare	Apply as a band spray soon after germination/transplanting	0.2l
	Lambda cyhalothrin 5EC	200ml per hectare	Apply as a band spray soon after germination/transplanting	0.2l
Aphids	Malathion 25WP	500grms per hectare	Apply as a F.C.S and repeat if necessary to do so	0.5kgs
	Diazinon	380ml per hectare	F.C.S Dilute 190ml/100 litres of water repeat as necessary	0.38l
	Dimethoate 40EC	200ml per hectare	Dilute 100 - 150ml/100 litres of water apply as a F.C.S	0.2 -0.3l
	Malathion 50EC	300ml per hectare	Apply as a F.C.S and repeat if necessary to do so	0.3l
Anthracnose Downey Mildew	Dithane M45	1.5kgs per hectare 1kgs	Apply as a F.C.S and repeat after every 7 - 14 days as necessary	1.5kgs
	Metalaxyl + Mancozeb	per hectare	Apply as a F.C.S and repeat after every 10 days as necessary	1kgs
	Copper Oxychloride 85WP	1kgs per hectare	Apply as a F.C.S and repeat at 10 - 14-day interval	1kgs
	Chlorothalonil/Bravo	2 litres per hectare	Apply as a F.C.S and repeat after every 7 - 14 days as necessary	2l
Powdery Mildew	Agricura Special Fungicide	350grams per hectare	Apply as a F.C.S and repeat after every 7 - 14 days as necessary	0.35kg
Fruit Fly/Pumpkin Fly	GF 120 Fruit Fly Bait	500ml/14.5l of water	Apply as coarse droplets at weekly interval. Consul Agronomist	1 -1.2l
	Kontakill/Fenitrothion	350ml per hectare	Apply as a F.C.S repeat as necessary. Consul Agronomist	0.35l
	Malathion 25WP	800grams/Ha, apply as a bait	Mix with 4kgs of sugar in 100 l of water apply as a coarse spray	0.8kgs
	Malathion 50EC	400ml per hectare	Apply as a F.C.S repeat as necessary. Consul Agronomist	0.4l

Approximately 12.5 x 16 litre knapsacks will cover 1 hectare and apply 200 litres of water

**ALWAYS READ PRODUCT LABEL BEFORE USE**

Website: [www.reliantag.co.zw](http://www.reliantag.co.zw), Email: [info@reliantag.co.zw](mailto:info@reliantag.co.zw)

Prepared by Macdonald Makombe Call/App 0779405797