

COTTON PRODUCTION GUIDELINES FOR 1 HECTARE

Seed: 20-30 kg per hectare.

Soil pH: Cotton is sensitive to acidic soil. Apply magnesium-based agricultural lime if pH is below 5.5 to also meet magnesium requirements.

Spacing: 1m between rows and 0.3m within rows. Thin plants to the required population 5-21 days after emergence.

Pest Management: Follow Synthetic Pyrethroid Resistance Management Strategy:

Lowveld: December 25th - March 1st

Elsewhere: February 1st - May 31st

Fertilization: Use boronated compound fertilizers.

Planting Dates:

- Lowveld: Do not plant before October 5th.

- Elsewhere: Do not plant before October 20th.

- Optimum: Last week of October to early November

N.B. ALWAYS REFER TO THE ACARACIDE ROTATION SCHEME FOR CORRECT PRODUCTS TO USE AS PER ANY GIVEN AREA.

FERTILIZER REQUIREMENTS		PRODUCT	RATE/HA	NITROGEN	PHOSPHATE	POTASH	SULPHUR	BORON	COMMENTS
Basal dressing	Compound L	4:17:11	350	14	60	39		0.88	All at planting Split apply at 8 & at 12WAP
Top dressing	Ammonium nitrate	A/Nitrate (34.5%N)	100	35					
		Total		49	60	39	0	0.88	

HERBICIDES, ACCARICIDES, INSECTICIDES, FUNGICIDES

Problem	Product	Application Rate	Application / Comments	Product for 1 ha
Mainly Grasses & Broad Leaved Weeds	Alachlor/Laso 48EC	2.5 - 3 litres per hectare	Pre-emergent, may be applied with a B/L herbicide, suppresses sedges	2.5 - 3l
	S-Metolachlor/Metolachlor	1.1 - 1.3 litres per hectare	Pre-emergent to weeds and crop, mix with B/L herbicide	1.1 - 1.3l
	Ametryn 50SC	2 litres per hectare	Post-emergent directed when crop is 300mm tall for Grasses & B/L	2l
	Terbutryn 50SC	2 - 4 litres per hectare	Post-emergent directed when crop is 400mm tall for Grasses & B/L	2 - 4l
	Glufosinate	1.5 - 4 litres per hectare	Post emergent directed spray on actively growing weeds	1.5 - 4l
	Diquat 20	1 - 2 litres per hectare	Post emergent directed spray on weeds, DO NOT spray onto cotton	1 - 2l
Mainly Broad Leaved Weeds	Prometryn	2 litres per hectare	Pre-emergent to crop & B/L weeds or early post emergent directed	2l
	Cotogard 500SC	2.5 - 3 litres per hectare	pre-emergent to weeds and crop	2.5 - 3l
Grasses ONLY	Agil 100EC	0.5 - 2 litres per hectare	Post emergent to annual & perennial grasses, volunteer wheat, barley	0.5 - 2l
	Super Galant	0.6 - 2 litres per hectare	Post emergent to annual & perennial grasses, volunteer wheat, barley	0.6 - 2l
Aphids & Whiteflies	Acetamiprid 20SP	34 - 50 grams per hectare	Dependant on plant height (DOPH). All application methods	34 - 50grms
	Dimethoate 40EC	250ml per hectare	Dose DOPH and scouting. All application methods	250ml
	Fipronil 20SC	500ml per hectare	Band treatment in a 150mm swath over the furrow, cover seed soon	500ml
Elegant grasshopper	Carbaryl 85WP	1.2 kgs per hectare	Dose DOPH. All application methods. Molasses may be added	1.2kgs

Heliothis Bollworm & Jassids	Carbaryl 85WP	1.2 kgs per hectare	Dose DOPH. All application methods	1.2kgs
	Decis forte	33 - 50ml per hectare	Dose DOPH. All application methods	50ml
	Fenvalerate/Fenkill/Fencure	200ml per hectare	Dose DOPH. All application methods. CRI recommended	200ml
	Avaunt/Steward	170ml per hectare	Dose DOPH. All application methods. CRI recommended	170ml
	Lambda cyhalothrin 5EC	200ml per hectare	Dose DOPH. All application methods. CRI recommended	200ml
Heliothis Bollworm	Avaunt/Steward	170ml per hectare	Dose DOPH. All application methods. CRI recommended	170ml
Jassids	Acetamiprid 20SP	50grams/hectare	Dose DOPH. All application methods	50grams
	Dimethoate 40EC	250ml per hectare	Dose DOPH. All application methods	250ml
Leaf eaters	NB. Carbaryl 85WP, Decis forte 2.5EC, Fenvalerate 20EC and Lambda cyhalothrin 5EC, will control leaf eaters, using same dosages as on heliothis bollworm			

Leaf eating caterpillars	Lambda cyhalothrin 5EC	200ml per hectare	Dose DOPH and scouting. All application methods. CRI recommended	200ml
Lygus bug	Dimethoate 40EC	250ml per hectare	Dose DOPH. All application methods	250ml
Red Bollworm	NB. Carbaryl, Decis forte, Fenvalerate, Lambda cyhalothrin & Avaunt/Indoxacarb will control Red bollworm using same dosages above e.g. on heliothis			
Red Spider Mites	Abamectin 1.8EC	400ml per hectare	Dose DOPH, All application methods	400ml
	Amitraz/Mitac 20EC	0.5 - 1500ml per hectare	Dose DOPH, All application methods	0.5 - 1.5l
	Dicofol 18.5EC	1100ml per hectare	Dose DOPH, All application methods	1.1l
	Dimethoate 40EC	250ml per hectare	Non-resistant red spider mites only. Dose DOPH.	250ml
Spiny bollworms	N.B Refer to information on Red Bollworm, in terms of which products to use and dosage rates			
Cotton stainers	N.B Refer to information on Red Bollworm, in terms of which products to use and dosage rates, leave only Avaunt from the list and replace it with Dimethoate			
Termites	Fipronil 20SC	400ml per hectare	Apply to 50kgs of seed, rotate for good cover, spray in band over furrow & cover seeds	
	Imidacloprid	1 litre per hectare	Dose DOPH, Furrow treatment, apply over seed before covering	
Seed borne diseases	Thiram 80WP	75grams/50kgs of seed	Seed dressing treatment	
Defoliant	Ethephon/Etherel	100 - 200 litres per hectare	Ground application, apply when last reapeable boll has reached physiological maturity	
Nematodes	Carbofuran/Curater	20kgs per hectare	Apply 200grms/100m row in furrow, will also control aphids and jassids	20kgs

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, Email: info@reliantag.co.zw

Prepared by Macdonald Makombe Call/App 0779405797