

agricura

Growing Farming Generations

PRODUCTION GUIDELINES FOR 1 HECTARE OF COTTON JULY 2017

Seed requirements - Generally require about 20 - 30 kgs of seed per hectare

Cotton is very sensitive to acidic soils, Below a pH value of 5.5 - magnesium based Agricultural lime should be applied to also satisfy magnesium requirements

General plant spacing recommendation is 1m inter-row and 0.3m intra-row

Recommended to thin to the required plant population from 5 - 21 days after crop emergence

Synthetic Pyrethroid Resistance Management Strategy - **Restricted Pyrethroid Windows:** Lowveld - December 25th - 1 March. Elsewhere - 1 February - May 31st

Use boronated compound fertilisers

Planting dates - **DO NOT** plant before 5th October in the Lowveld, October 20th elsewhere. Optimum Planting Date: last week of October - 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	Agricura Compound L	4:17:11	350	14	60	39		0.88	All at planting
Top dressing	Ammonium nitrate	A/Nitrate (34.5%N)	100	35					Split apply at 8 & at 12WAP
		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, supresses sedges	2.5 - 3lts
	S-Metolachlor/Metolachlor	1.1 - 1.3 litres per hectare	Pre-emergent to weeds and crop, mix with B/L herbicide	1.1 - 1.3lts
	Ametryn 50SC	2 litres per hectare	Post-emergent directed when crop is 300mm tall for Grasses & B/LS	2lts
	Terbutryn 50SC	2 - 4 litres per hectare	Post-emergent directed when crop is 400mm tall for Grasses & B/LS	2 - 4lts
	Glufosinate	1.5 - 4 litres per hectare	Post emergent directed spray on actively growing weeds	1.5 - 4lts
Mainly Broad Leaved Weeds	Diquat 20	1 - 2 litres per hectare	Post emergent directed spray on weeds, DO NOT spray onto cotton	1 - 2lts
	Prometryn	2 litres per hectare	Pre-emergent to crop & B/L weeds or early post emergent directed	2lts
Grasses ONLY	Cotogard 500SC	2.5 - 3 litres per hectare	Pre-emergent to weeds and crop	2.5 - 3lts
	Agil 100EC	0.5 - 2 litres per hectare	Post emergent to annual & perennial grasses, volunteer wheat, barley	0.5 - 2lts
Aphids & Whiteflies	Super Galant	0.6 - 2 litres per hectare	Post emergent to annual & perennial grasses, volunteer wheat, barley	0.6 - 2lts
	Acetamiprid 20SP	34 - 50 grams per hectare	Dependant on plant height (DOPH). All application methods	34 - 50grms
	Dimethoate 40EC	250mls per hectare	Dose DOPH and scouting. All application methods	250mls
Elegant grasshoper	Fipronil 20SC	500mls per hectare	Band treatment in a 150mm swath over the furrow, cover seed soon	500mls
	Carbaryl 85WP	1.2 kgs per hectare	Dose DOPH. All application methods. Molasses may be added	1.2kgs
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Heliothis Bollworm & Jassids	Carbaryl 85WP	1.2 kgs per hectare	Dose DOPH. All application methods	1.2kgs
	Decis forte	33 - 50mls per hectare	Dose DOPH. All application methods	50mls
	Fenvalerate/Fenkill/Fencure	200mls per hectare	Dose DOPH. All application methods. CRI recommended	200mls
	Avaunt/Steward	170mls per hectare	Dose DOPH. All application methods. CRI recommended	170mls
	Lambda cyhalothrin 5EC	200mls per hectare	Dose DOPH. All application methods. CRI recommended	200mls
Heliothis Bollworm	Avaunt/Steward	170mls per hectare	Dose DOPH. All application methods. CRI recommended	170mls
Jassids	Acetamiprid 20SP	50grams/hectare	Dose DOPH. All application methods	50grams
	Dimethoate 40EC	250mls per hectare	Dose DOPH. All application methods	250mls
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	200mls per hectare	Dose DOPH and scouting. All application methods. CRI recommended	200mls
Lygus bug	Dimethoate 40EC	250mls per hectare	Dose DOPH. All application methods	250mls
Red Bollworm	NB. Carbaryl, Decis forte, Fenvalerate, Lambda cyhalothrin & Avaunt/Indoxacarb will control Red bollworm using same dosages above eg on heliothis			
Red Spider Mites	Abamectin 1.8EC	400mls per hectare	Dose DOPH. All application methods	400mls
	Amitraz/Mitac 20EC	0.5 - 1500mls per hectare	Dose DOPH. All application methods	0.5 - 1.5lt
	Dicofol 18.5EC	1100mls per hectare	Dose DOPH. All application methods	1.1lt
	Dimethoate 40EC	250mls per hectare	Non resistant red spider mites only. Dose DOPH.	250mls
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	400mls 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 reapable 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 LABELS BEFORE USING THE PRODUCTS**

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