

## TOBACCO PRODUCTION GUIDELINES FOR 1 HECTARE

**Yield Target:** 3,000 kg per hectare, with higher yields achievable with meticulous attention to detail.

**Fertilization:** Use boron-containing fertilizers. Soil testing is crucial for specific fertilizer recommendations.

FERTILIZER REQUIREMENTS		PRODUCT	RATE/HA	NITROGEN	PHOSPHATE	POTASH	SULPHUR	CALCIUM
Basal dressing:	Compound C	5:15:12	700kgs	35kgs	105kgs	84kgs	77kgs	
Top dressing:	Split apply Ammonium nitrate	AN 34.5% N	150kgs	52kgs				
Top dressing:	Calcium nitrate	Calcium nitrate	75kgs	12kgs				
Soil conditioning + Calcium supplement:	Gypsum	Gypsum	450kgs				72	90kgs
	OR							
Basal dressing:	Tobacco Blend/High C	6:28:23	500kgs	35kgs	140kgs	115kgs	30kgs	
Top dressing:	Split apply Ammonium nitrate	AN 34.5% N	150kgs	52kgs				
Top dressing:	Calcium nitrate	Calcium nitrate	75kgs	12kgs				
Soil conditioning + Calcium supplement:	Gypsum	Gypsum	450kgs				72	90kgs
HERBICIDES, FUNGICIDES, INSECTICIDES								
Problem	Product	Application rate		Application / comments				Product
Grasses & Some Broad leaved Weeds	S-Metolachlor	1 -2l per ha		Apply as a pre-emergent herbicide				1 - 2l
	Kalif/Command	1.5 - 1.75l/ha		Apply as a pre-emergent herbicide				1.5 - 1.75l
Grasses only	Kalif/Command	1l/ha		Tank mix with S-Metolachlor & Apply Pre-emergent				1l
	S-Metolachlor	1.2l/ha		Tank mix with Kalif & Apply Pre-emergent				1.2
Grasses only	Agil	0.5 - 2.0 l per ha		Post emergent for annual & perennial grasses				0.5 - 2l
	Gallant Super	0.6 - 2.4l/ha		Post emergent for annual & perennial grasses				0.6 - 2.4l
Nematodes /Eelworms	Oxamyl/Nemat	3l/ha		Apply cup 30 of mixture/plant @ planting or within 5WAP				3l
	Telone II	60l/ha		Inject or apply as a soil drench at planting				60l
	Fernamiphos/Nemacure	4l/ha		Apply cup 30 of mixture/plant @ planting or within 5WAP				4l
	Velum Prime	0.4l/ha		Apply cup 30 of the mixture/planting station at planting				0.4l
White grubs FalseWireworms Termites, Ants	Imidacloprid 200SL	0.8l/ha		Apply cup 30 of mixture/plant @ planting				0.8l 0.6l
	Imidacloprid 350SC	0.6l/ha		Apply cup 30 of mixture/plant @ planting				0.06kgs
	Confidor	0.06kgs/ha		Apply cup 30 of mixture/plant @ planting				0.8l
	Chlopyrifos 48EC	0.8l/ha		Apply cup 30 of mixture/plant @ planting				0.2l
	Fipronil	0.2l/ha		Apply cup 30 of mixture/plant @ planting				
Cutworms	Decis forte	60 ml/100 l water		Drench immediately at the base of plant with cup 30/plant				0.12l
	Lambda cyhalothrin	100ml/100 litres of water		Drench immediately at the base of plant with cup 30/plant Apply				0.2l
	Chlopyrifos 48EC	400ml/100 litres of water		cup 30/plant immediately after planting				0.8l
Aphids & Some sap	Thunder	220 ml/100 l water		Apply as necessary at 7-14 day interval up to topping time Apply in				0.33l/ha
	Imidacloprid 200/350	As above		bulk planting water as highlighted above				0.6 - 0.8l

sucking insects	Dimethoate 40EC Acetamiprid/Acetamark Thiamethoxam/Actara	0.5 - 0.8l/ha 15 grams/100 litres of water 280grams/100 litres of water	Dilute in 200 litres of water, repeat as necessary Apply in 200 litres of water @ 10 -14-day interval Mix in 200 litres of bulk planting water apply up 30/plant	0.5 - 0.8l 0.003kgs/ha 0.56kgs
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Problem	Product	Application rate	Application / comments	Product for 1 ha
Budworms	Avaunt/Steward	0.25l/ha	Apply in 200 litres of water as necessary up to toping time	0.25l
Leaf eaters	Lannate/Methomyl	0.25l/ha	Apply in 250l of water & repeat as necessary	0.25l
Grasshoppers	Thunder	220ml/100 litres water	Apply in 200 litres of water and repeat as necessary	0.33l
Leaf miners	Bel	38ml/ha	Apply in 200 litres of water and repeat as necessary	0.038l
Dusty surface Beetle	Chlopyrifos 48ec/Pyrinex 48ec Dursban 48EC	Apply 400ml per 100 litres of Water	Apply Cup 30 of the mixture at the base of plant	0.8l
Semi loopers	Thunder	220ml/100 litres water	Apply in 200 litres of water and repeat as necessary	0.33l
Stinkbugs	Thunder	220ml/100 litres water	Apply in 200 litres of water and repeat as necessary	0.33l
Lace worm	Lannate/Methomyl	133grams/100 litres of water	Apply in 200 litres of water repeat as necessary	0.266kgs
Angular Leaf Spot	Bion 50 WG	30grams/100 litres of water	Apply at 6 - 7 & @ 7 - 9 weeks after planting	0.06kgs
Alternaria Solani	Azoxystrobin	250ml/100 litres of water	Apply as a FCS 8 - 10 weeks after planting	0.5l
Frog eye & Wildfire Disease	Tebuconazole	300ml/100litres of water	Apply as a FCS 8 - 10 WAP, repeat as necessary	0.5 - 0.75l
Rhizoctonia Leaf Spot	Copper Oxychloride	1.5kgs/100 litres of water	Apply as a FCS from 4WAP repeat @ 10-14 day interval	2kgs
	Bravo/Chlorothalonil	1 litre/100 litres of water	Apply as a FCS from 4WAP repeat @ 10-14 day interval	2l
	Dithane M45/Mancozeb	1.5kg/100 litres of water	Apply as a FCS from 4WAP, repeat @ weekly interval	2 - 3kgs
Sucker	Deka/Decanol	Apply 3 l/100 l of water	Apply 2 - 3 times using different cup sizes	7l
Kill/Suckers	Agritop/Accotab	1.5 l/100l of water	Apply 2 applications using different cup sizes	3l
Ripener	Ethrel/Ethefon	180 ml/16l of water 100ml/16l of water 200ml/100 l of water	Apply as a high-volume spray in tobacco lands Apply as ultra-low volume spray in lands After reaping spray, the reaped leaves on the clips	3l/more 1.5l/more
Barn rot	Copper Oxychloride	1kg/100l of water	Wash surfaces of barns and all related equipment	

Approximately 12.5 x 16 litre knapsacks will cover 1 hectare and apply 200 litres of water **ALWAYS READ PRODUCT LABEL BEFORE USE**

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