

# HERBAL DOSAGE FOR COTTON CULTIVATION



## About Cotton crop

- Major **Fiber** and **Cash** crop
- **Climate & Soil:** Irrigated crop: March-May; Rain Fed Crop: Sown mostly in June, before onset of monsoon. Doesn't sown beyond July. well drained **Black** soils [or] mixed Black & Red soils. Sensitive to water logging conditions.
- **Sowing method:** Seed drilling or Dibbling method | **Crop Duration:** 170 days
- **Irrigation:** The water requirement is low during the first 60-70 days after sowing & **highest** during **flowering & boll development [critical stage]**.
- **Pollination:** self-pollinated crop; after pollination white flower turns to pink
- **Flowering stage:** 60-70 days; **Fruiting or ball formation stage :**105-135 days; **Harvesting:** 130 -160 days
- **Major Pests & Diseases:** sucking pests (aphids, thrips, mites, jassids), whitefly, pink boll worms, Leaf spot, grey mildew, boll rot, root rot.

## RECOMMENDED DOSAGE CHART IN COTTON (PER ACRE)

**Note: Better to avoid usage in Rainy Weather conditions. Suitable for Flood, Drip Irrigation, Spraying and Rain guns.**

Age of crop	NemZap [Soil Application]	GrowthFit [Spraying]			
After germination up to 20 days.	Use NemZap <b>2 litres / 1 acre</b>	Use GrowthFit <b>2 litres / 1 acre</b>  Recommended to spray 1 litre of GrowthFit mixing in 150 litres of water			
	<b>Flood irrigation:</b> Mix it with the sand, spread uniformly in the entire crop field and irrigation should be given (or) <b>Drip irrigation:</b> <b>1 litre</b> of NemZap in 150 litres of water. (for 1 acre: 2 x 150 litres of water)				
<b>If there is no possibility for flood or drip irrigation, it is suggested to spray after mixing 1 litre of NemZap in 150 litres of water.</b>					
<b>GrowthFit (Flood, Drip irrigation)</b>					
40 – 45 Days	Use <b>3 litres / 1 acre</b>	<b>For 1 acre, 3 litres in 2 applications.</b> Recommended to spray 2 times in 10 days interval by mixing 1.5 litre of GrowthFit in 150 litres of water.			
60 Days	<b>Flood irrigation:</b> Mix it with the sand, spread uniformly in the entire crop field and irrigation should be given (or)				
90 Days	<b>Drip irrigation:</b> Mix 1 litre. GrowthFit in 100 litres of water - soil application.				
<b>GrowthFit spraying (Rainfed crop)</b>					
After 20Days	<b>In case of Rainfed conditions for Pest &amp; Disease Control, Plant Growth, for Better Yields - Spray GrowthFit</b>				
40 – 45 Days	Use <b>3 litres</b> of growthfit for 1 acre – Recommended to spray 2 times in 10 days interval by mixing 1.5 litre of GrowthFit in 150 litres of water.				
60 Days					
90 Days					
<b>NOTE:</b> Spray GrowthFit at the time of Flowering, Bud Formation, Fruiting stages. Consider duration of the Crop before application.					
Cost of Cultivation	Product	Flood /Drip	Cost / acre	Rainfed	Cost / acre
	NemZap (soil application)	02 litre. x Rs. 800	Rs. 1600	02 litre. x Rs. 800	Rs. 1600
	GrowthFit (spraying & soil application)	11 litre. x Rs. 600	Rs. 6600	12 litre. x Rs. 600	Rs. 7200
	<b>Cost per acre</b>	-	<b>Rs. 8200</b>	-	<b>Rs .8800</b>
<ul style="list-style-type: none"> <li>• <b>General Note:</b> Avoid using with the combination of any other Chemical Fertilizers, Organic Solutions, Oil Cakes [Neem, castor, pongamia].</li> <li>• If farmers want to use any other products / chemical fertilizers, maintain 10 days gap period before &amp; after application of GrowthFit or NemZap solutions.</li> <li>• This chart is recommended for only 1 acre and dosages may vary based on the area.</li> </ul>					
<b>For any queries please contact: Shri Durga Prasad: 94912 78836, Shri Murali: 98668 51525</b>					