

# Organic Farming of Okra

Okra (*Abmoschus esculantus*) is an important vegetable crop in India. The damage of the okra crop is severe. These crops are particularly vulnerable to the types of insects such as Spotted bollworm, *Helicoverpa*, Thrips, Aphids, Jassid, Whiteflies, Mites. The okra crop also suffers from serious diseases like Nematodes, Wilt, Root rot and Yellow Vein Mosaic Virus. In economic terms, the production of okra crops is reduced by 20% to 80% by diseases and insect-pests. It is important to protect the crop from losing yield and also from chemical residues that contaminate land and impact the environment.

**Adopt the following strategies for the management of various okra pests & diseases and plant nutrition to get higher yield and residue free farm produces**

- Use resistant varieties of okra according to local suitability.
- Conduct deep ploughing in summers to expose soil borne pathogens in heat and destroy them.
- Remove previous season debris of crop from the field and do regular weeding.
- Do not use cotton as a trap crop in okra field.
- Adoption of proper crop rotation and avoid growing of *Malvaceae* crops in sequence.
- Use 8 to 10 tons of well decomposed FYM per acre of land.
- Use 100 kg of Neem cake and 50 kg of Castor cake in acre of land. It will help minimizing the incidence of nematodes.
- Do hand weeding 30 days after sowing of crop because if you do hand weeding in initial crop growing stage, it may be cause root damage to okra crop.

- Monitor insect population development in fields to determine if and when control measures are warranted.
- For surveillance of Spotted bollworm (*Earias insulana*) and *Helicoverpa*, use pheromone traps and lures.
- Collect and destroy the fruits that have got damaged by Spotted bollworm and *Helicoverpa*.
- Flowering plants that attract natural enemies as well as plants that repel pests can be grown as border/intercrop.
- Such as growing tall crops like maize, sorghum and castor on border of the field to reduce white fly and other pests.
- Crop must be sown in rows at optimum depths under proper moisture conditions for better establishment.
- Maintain optimum and healthy crop stand which would be capable of competing with weeds at a critical stage of crop weed competition.

## Major Pests



Spotted Bollworm



*Helicoverpa*



Armyworm



Thrips



Aphid



White Fly

## Major Diseases



Nematodes



Wilt



Root rot



Yellow vein Mosaic Virus

## Natural Enemies of Okra Pests



Adult Ladybird



Adult Lacewing

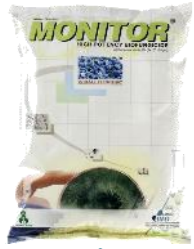


*Encarsia Famosa*



*Brumoides suturalis*

# Recommended Products Per Acre of Land



Monitor  
500 gms



Sudozone  
500 gms



Yorker  
250 gms



Biosoft  
500 gms



Biofield Combo  
3 kgs



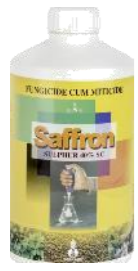
Antity  
500 ml



Lifeline  
500 ml



Mycozone  
100 gms



Saffron  
1 kg



Biofield  
1 ltr



SmartZINC  
500 ml



Runoff 100  
250 ml



Vanguard  
1500 ppm-1 ltr



Yellow / Blue  
Sticky Traps 40 nos



Solar Light Sticky  
Trap 1 nos

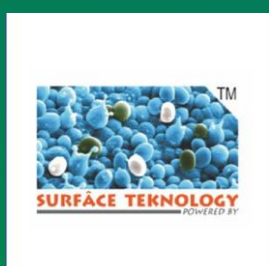


NoMate Pheromone  
Traps 20 nos

## Application Method of Agriland Organic Products

Sr. No	Time of applications	Product	Dose	Type of applications	Benefits
1.	At the time of sowing	Monitor Sudozone Yorker	250 gm/acre 1 kg /acre 250 gm/acre	Apply in soil	For control of plant diseases and plant parasitic nematodes
		Biofield combo Mycozone	3 kg /acre 100 gm /acre		For better sprouting of the seeds and the development of powerful root mass
2.	20 days after sowing	Biofield liquid	30 ml / 15 liters of water	Use as spray	For overall development and plant growth
		Runoff 100	5 ml/15 liters of water		For better spread and enhance product efficiency at the time of spray
		Smart Zinc	15 ml / 15 liters of water		Reduce the Zn deficiency in plant and increase the nitrogen uptake and protein synthesis
		NoMate sex pheromones traps	20 traps /acre	Install 1 foot above the height of the crop	Used to monitor and control Spotted bollworm ( <i>Earias insulana</i> ), <i>Helicoverpa</i>
		NoMate sticky traps	40 traps/acre		Used for control of sucking pests
		Solar light trap	1 trap/acre		Used for monitoring and controlling the male insects during night as well as daytime
3.	40 days after sowing	Monitor	15 gm / 15 liters of water	Soil application	For the control of root rot of okra
		Biosoft	15 gm / 15 liters of water		For control of Spotted bollworm, <i>Helicoverpa</i> larvae and sucking pests
		Saffron	5 oml / 15 liters of water		It provide Sulphur micronutrient and useful in control of powdery mildew
4.	60 days after sowing	Antity	45 ml/15 liters	Use as spray	Used to control leaf spots diseases
		Lifeline	45 ml/15 liters of water		Use for providing micronutrient and over all plant growth
		Runoff	5 ml/15 liters of water		For better spread and enhance product efficiency at the time of spray
5.	70 days after sowing	Vanguard 1500 ppm	60 ml/15 liters of water	Use as spray	Used to control sucking pests
		Smart Zinc	15 ml / 15 liters of water		Reduce the Zn deficiency in plant and enhance the nitrogen uptake and protein synthesis
		Runoff	05 ml/15 liters of water		For better spread and enhance product efficiency at the time of spray

Surface Technology



ISO 9001:2015



IMO Approved



GeM Approved



DSIR Approved R&D Center



ZED Certification



CRISIL MSE 2 Rated Company



We are the leading agri-biotechnology company in the nation, pioneering in the area of research and development of environmentally friendly plant protection products.



36, Prince Industry Estate,  
Mota-Motipura, 391520 (Samlaya),  
Taluka - Savli, District - Vadodara,  
Gujarat, India