





Crop Guide

• Land Preparation

- » Narrow paths help with irrigation and drainage
- » Organic mulch may be installed to conserve soil moisture especially during dry season and minimize weed growth
- » 166,666 266,666 plants/ha (adjust according to the variety and season)

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• Sowing and Seedling Production

Direct sowing

- » Make rows and planting distance (using stick)
- » Dig shallow rows (1cm) and sow seed thinly
- » Gradually thin:
 - To 10-15 cm for baby leaves
 - To 15-20 cm for mature plant
- » Thinned plants can be sold or eaten

TO -15 cm 15-20 cm

Container seedling production



» Optional: Pregermination





1.Place the seeds on moist paper towel

2. Put in container or zip bag; keep it moist; away from direct sunlight

3. After 2-3 days, or when a small root appears (1-2 mm), gently move them to the seed tray.



• Sowing and Seedling Production



• Fertilizer Application

Seedling stage

- » 10 liters water + 10-15 g calcium nitrate; drench seedlings 10 days after emergence (when needed). Spray the seedlings with water if the solution touches the leaves.
- » Apply fungicide for damping-off, when needed.





Use recycled spoon (do not use for eating) or bottled water cap to measure application



Recommended amount based on crop optimum nutrient requirement and plant population of 166,666 - 266,666 plants/ha. Adjust application according to season, soil conditions and plant growth status.

Integrated Pest Management



To prevent infection from spreading, sick plants, old crops and weeds must be removed and destroyed.



Crop rotation prevents build up of insect pests and diseases and restores soil fertility.

• Integrated Pest Management and Responsible Use of Pesticides

- » Alternate MoA groups to prevent resistance
- » Avoid the use of pesticides for leafy vegetables. If necessary, reduce spraying one week before harvest
- » Always read pesticide label and intended use (registered crop and pest)

Kinds of Insects

Spinosad

Abamectin

Azadirachtin (neem extract)

Beauveria bassiana

Pyroligneous acid (Wood vinegar)



unknown

unknown

unknown

Caterpillar Aphid **Active Ingredient** MoA Action Aphid Caterpillar 1 SC Lambda-cyhalothrin 3A 1 Dinotefuran S 4A S 5 Spinetoram 5 SC 1 SC (slight S) 1 6 SC Thiocyclam oxalate 14 1 Chlorantraniliprole 28 S Flubendiamide S 28 **Bacillus thuringiensis** C 11A

Mode of Action (MoA) based from IRAC; SC (Stomach + Contact); S (Systemic)

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Kinds of Image: Seases Alternaria Leaf Spot Cercospora leaf spot					
Active Ingredient	MoA	Action	Remarks	Alternaria Leaf Spot	Cercospora leaf spot
Copper-based Fungicides	M 01	Р			
Chlorothalonil	M 05	Р		v	×
Mancozeb	M 03	Р		×	×
Azoxystrobin	11	P + C	Maximum 2 times per crop cycle	 Image: A set of the set of the	×
Trichoderma spp.	BM02	Р	51 86 857	×	
Bacillus subtilis	BM02	Р		~	×

Mode of Action (MoA) based from FRAC; P = preventive (only effective when disease symptoms have not appeared yet), C = curative



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