



Crop Guide

CHINESE CABBAGE

• Land Preparation

- » Narrow paths help with irrigation and drainage
- » Organic or plastic mulch may be installed to conserve soil moisture and minimize weed growth
- » 26,600 - 44,400 plants/ha (adjust according to the variety and season)



ENGLISH



Seedling Production

- ◆ Substrate preparation: Heat for 10 minutes or place in full sun for half a day, then fill tray



- ◆ Sow seeds and protect seedlings



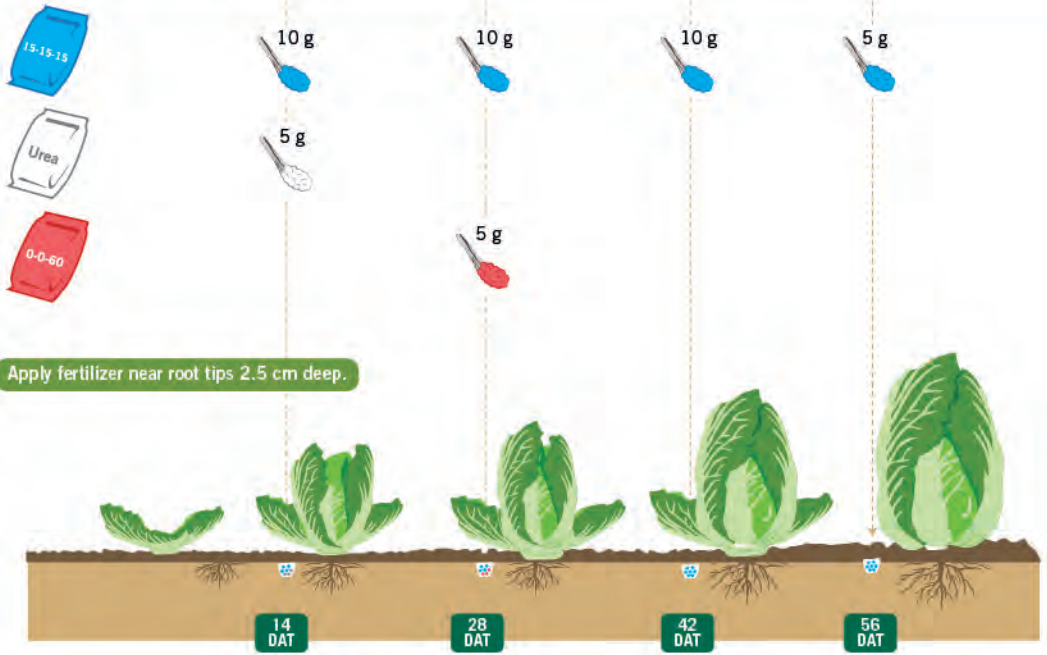
- ◆ Maintain constant moisture



- ◆ Reduce water and expose to more sun 5-7 days before transplanting late in the afternoon



• Fertilizer Application



Recommended amount based on crop optimum nutrient requirement and plant population of 26,600 per hectare.
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.



• Integrated Pest Management and Safe Use of Pesticides

- » Alternate MoA groups to prevent resistance
- » Always read pesticide label and intended use (registered crop and pest)



Kinds of Insects

Active Ingredient	MoA	Action	Whitefly	Aphid	Caterpillar	Diamondback Moth	Flea Beetle
			Whitefly	Aphid	Caterpillar	Diamondback Moth	Flea Beetle
Lambda-cyhalothrin	3A	SC	✓	✓	✓	✓	✓
Dinotefuran	4A	S	✓	✓			✓
Spinosad	5	S			✓	✓	✓
Spinetoram	5	SC			✓	✓	✓
Abamectin	6	SC (slight S)			✓	✓	✓
Thiocyclam oxalate	14	SC	✓	✓			
Chlorantraniliprole	28	S			✓	✓	✓
Flubendiamide	28	S			✓	✓	✓
<i>Bacillus thuringiensis</i>	11A	C			✓	✓	✓
<i>Azadirachtin (neem extract)</i>	UN	unknown	✓	✓	✓	✓	✓

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



Kinds of Diseases

Active Ingredient	MoA	Action	Remarks	Black Rot	Bacterial Soft Rot	Alternaria Leaf Spot	Downy Mildew
				Black Rot	Bacterial Soft Rot	Alternaria Leaf Spot	Downy Mildew
Copper-based Fungicides	M 01	P	For bacterial diseases: Use only when necessary; do not overuse to avoid potential resistance build up	✓	✓	✓	✓
Chlorothalonil	M 05	P				✓	✓
Mancozeb	M 03	P	Maximum 4 times per crop cycle	No effective curative spray		✓	✓
Azoxystrobin	11	P + C		Manage with preventive measures like raising bed, crop rotation and sanitation		✓	✓
Propamocarb	28	P + C	Tank mixed with preventive (Chlorothalonil or Mancozeb) High risk of resistance (only use 2 times per season)			✓	✓
Cymoxanil	27	C		Avoid overhead irrigation			✓
Metalaxyl	4	P + C				✓	✓
<i>Bacillus subtilis</i>	BM02	P		✓	✓		✓

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

- Wear protective gear
- Good weather
- Good nozzle
- Wash after spraying

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Agrochemical recommendations have been developed in cooperation with Wageningen University & Research