



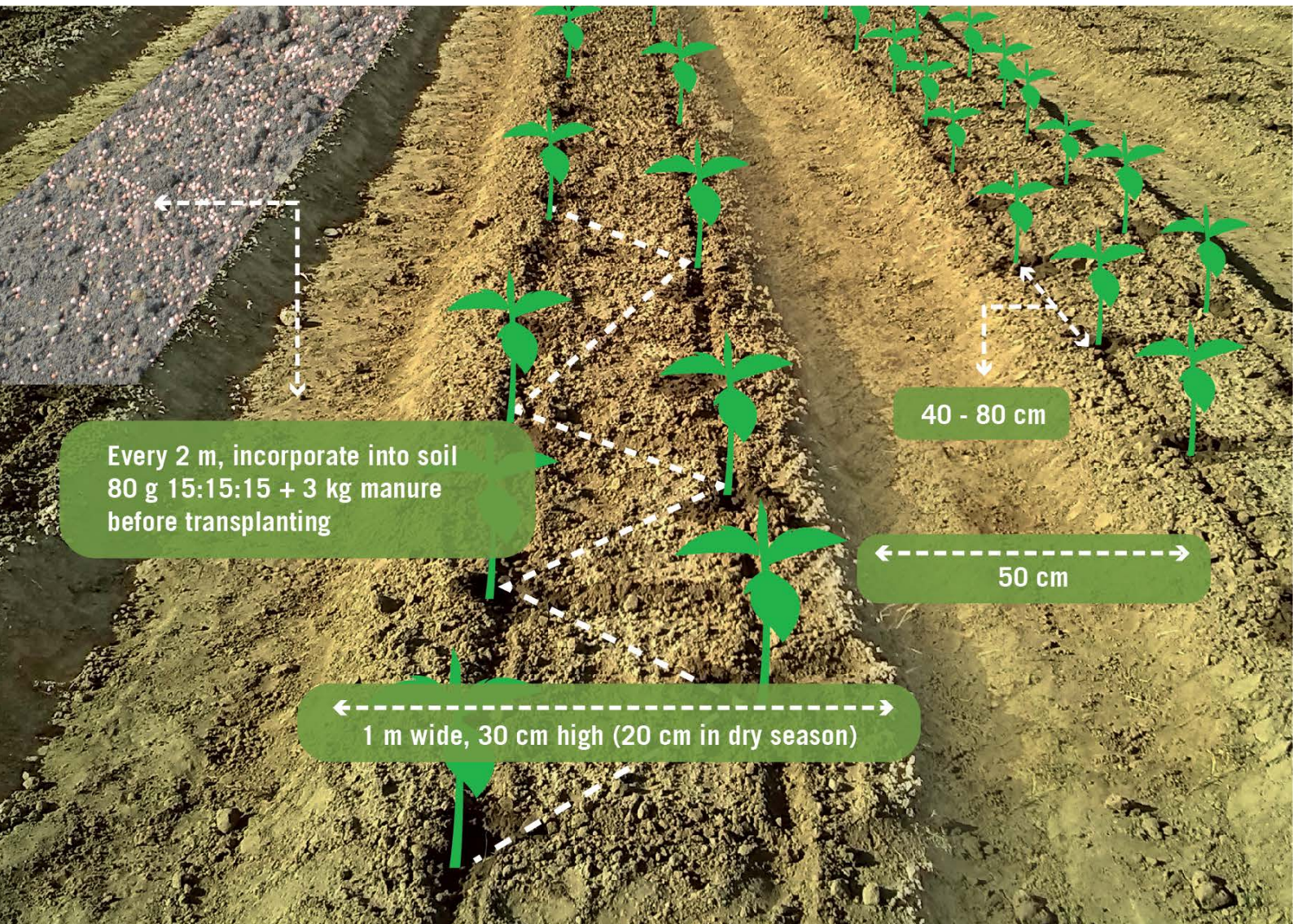
## Crop Guide **MARIGOLD**

### • Land Preparation

- » Narrow paths help with irrigation and drainage
- » Organic or plastic mulch may be installed to conserve soil moisture and minimize weed growth
- » Install trellis 8-10 days after transplanting
- » 16,660-33,330 plants/ha (adjust according to the variety and season)



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# • Seedling Production

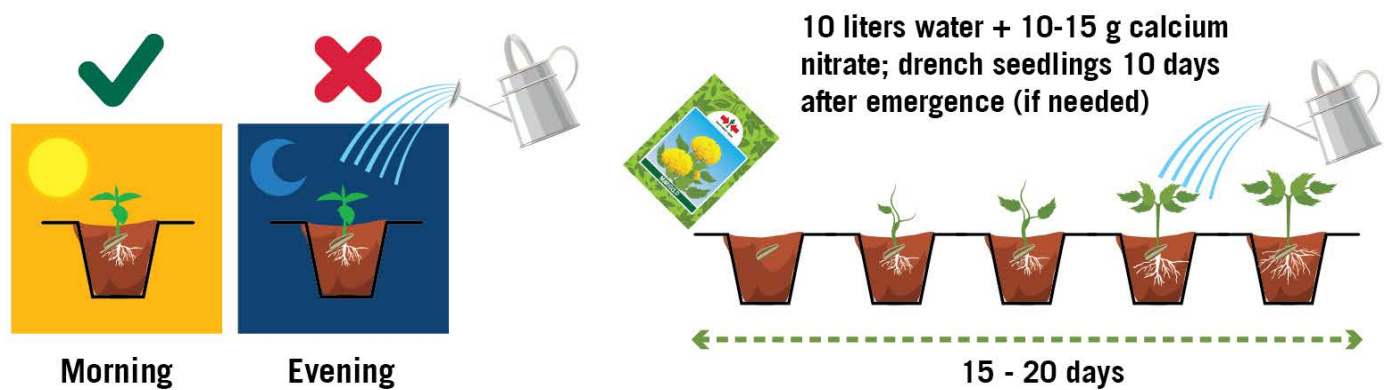
- ◆ Substrate preparation: Heat for 10 minutes or place in full sun for half a day, then fill tray



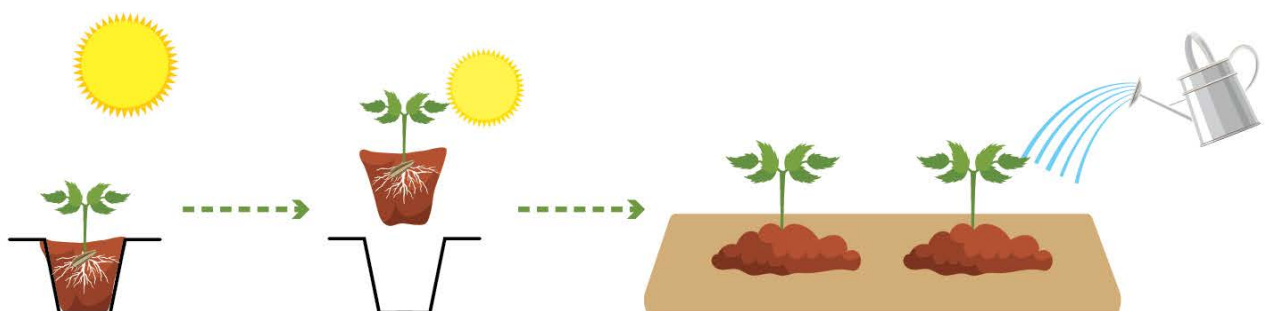
- ◆ Sow seeds and protect seedlings



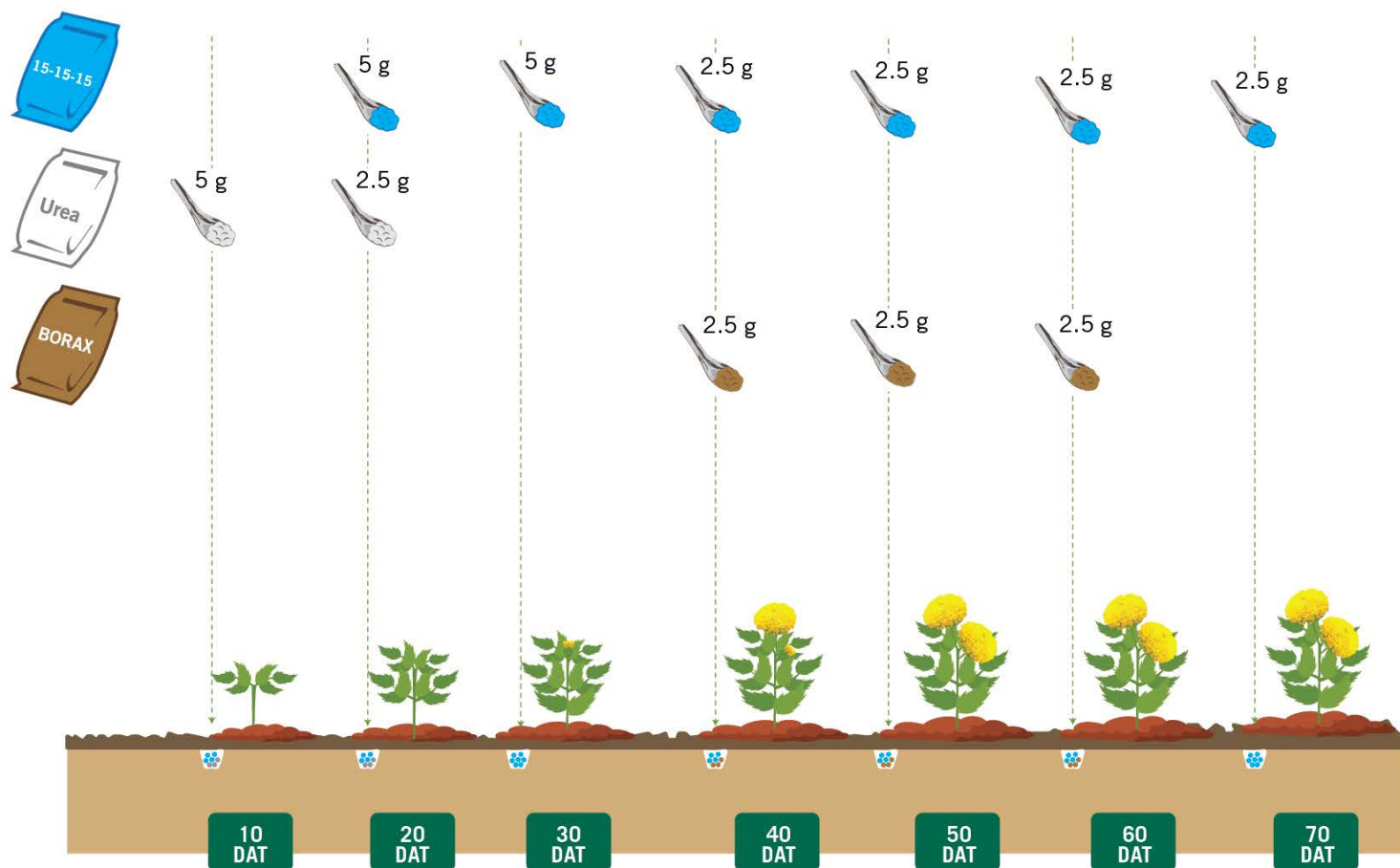
- ◆ Maintain constant moisture



- ◆ Reduce water and expose to more sun 2-3 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



» Use sticky traps to monitor and mass trap insect pests



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

Do pinching or top pruning at the 5th node or 10-12 days after transplanting.



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

# • 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)



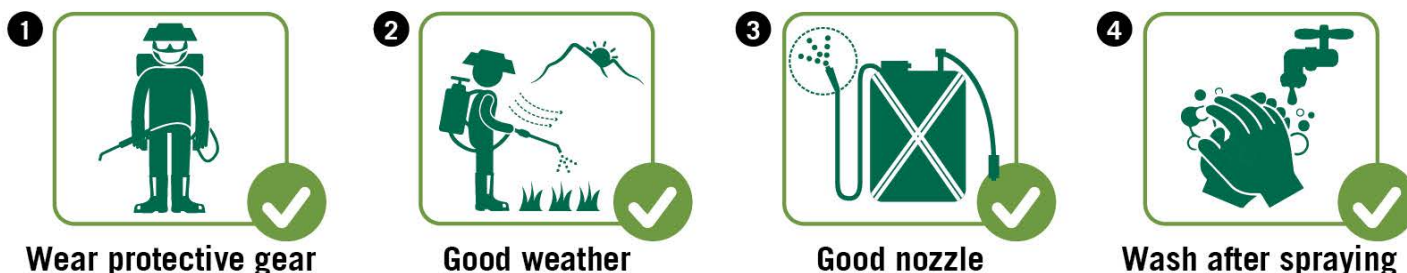
Active Ingredient	MoA	Action	Aphids	Whitefly	Caterpillar	Leafminer (Liriomyza)	Red Spider Mites
Lambda-cyhalothrin	3A	SC	✓	✓	✓	✓	✓
Dinotefuran	4A	S	✓	✓		✓	
Spinosad	5	S			✓	✓	
Spinetoram	5	SC			✓	✓	
Abamectin	6	SC (slight S)			✓	✓	✓
Thiocyclam oxalate	14	SC	✓	✓		✓	
Chlorantraniliprole	28	S			✓		
Flubendiamide	28	S			✓		
<i>Bacillus thuringiensis</i>	11A	C			✓		
Azadirachtin (neem extract)	UN	unknown	✓	✓	✓	✓	✓

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



Active Ingredient	MoA	Action	Remarks	Bacterial Wilt	Alternaria Leaf Spot	Powdery Mildew	Botrytis Flower Blight
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		Use resistant varieties or disease-free seedlings	✓	✓	✓
Mancozeb	M 03	P			✓	✓	✓
Azoxystrobin	11	P + C	Maximum 4 times per crop cycle		✓	✓	✓
<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



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