

Welcome!

Sustainable Vegetable Gardening, part 2: Seeds & Seedlings

March 1, 2020 UC Master Gardeners of Napa County





Housekeeping Details

Introductions Did you sign in and verify your email address? Restrooms down the hall Compostable disposables Weeding



Homework:

Germination Test



What are seeds?

"The seed contains an *embryonic plant* in a *dormant state* of development along with *food reserves* to sustain it through *germination*."



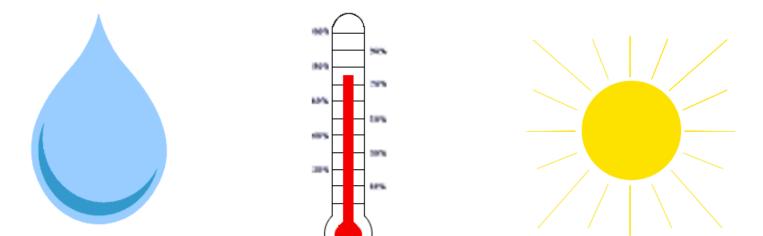
Why start from seed? (Either direct or transplants)





Germination:

Activating the dormant embryo



Seed dependent



Ideal seed starting conditions

- •Sterile seed mix, not garden soil
- •Clean container
- •Warm, moist soil
- •Light dependent on seed type



Starting seeds in pots







Examples of seed starting containers

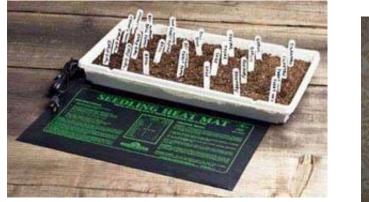




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Providing warmth





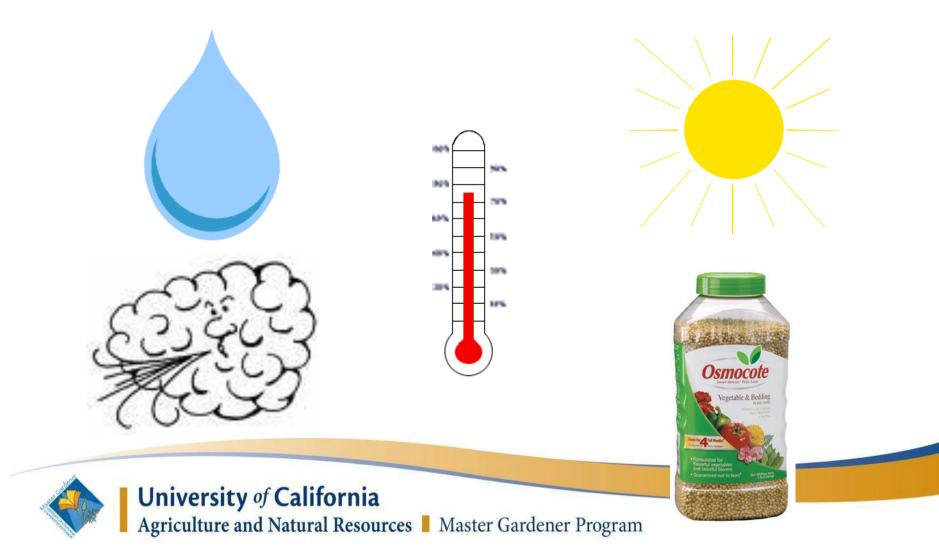






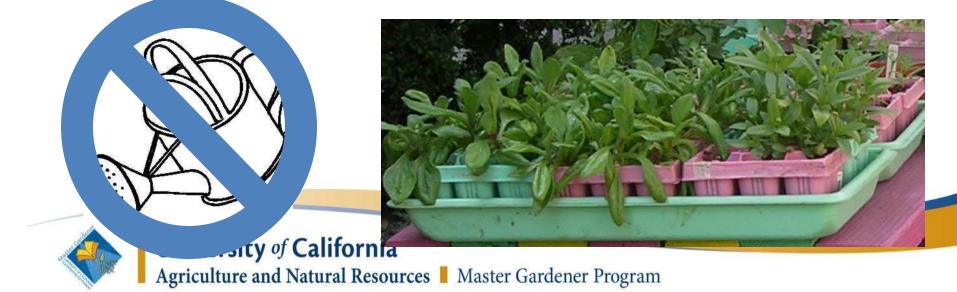


Caring for seedlings



Watering seedlings

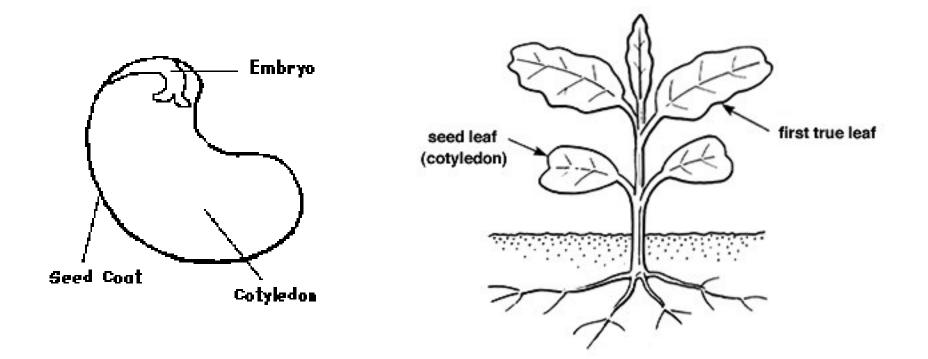




Light for seedlings



Cotyledons





Cotyledons and true leaves











Cucumber



How to select healthy plants in the nursery









Make your own seed mix

Ideal characteristics of a germinating medium:

Fine and uniform in texture Well aerated and loose Free of insects, disease organisms and weed seeds Low in total soluble salts Able to hold moisture yet drain well



Make your own seed mix

Possible ingredients:

Compost, commercially made Coir, sustainable substitute for peat Sand Perlite

Vermiculite



Hands On Activities

Seed mixes Starting seeds Up-Potting seedlings



Deciding what to grow



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Vegetable Garden Planning Chart

Vegetable				
number of plants				
space needed				
direct seed or transplant				
when to plant				
temp reqmn'ts cool or warm season				
approx days to harvest				
estimate harvest timeframe				
supports req'd				
when to start transplants				
notes				
ACTION			 	
when to take out				



Timing, direct seed & transplanting





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HEALTHY GARDEN TIPS

Web site: http://cenapa.ucdavis.edu Telephone: 707-253-4221 University of California Cooperative Extension - Napa County

SUMMER/FALL VEGETABLE PLANTING GUIDE FOR NAPA COUNTY

(From Robert F. Norris, Botany Dept. U.C.D, Prepared 10/98)

VEGETABLE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	NOTES/COMMENTS
Broccoli	8	=					1							
Brussel Sprouts		=	ŧ						1					
Cabbage	*	.	=											"Early" types could be planted up to 10 days later
Carrots														
Cauliflower	8		=											
Fava Beans				8										
Kohlrabi	8								8		<u>–</u>			Best to do spring planting near beginning of period shown
Lettuce														Planting and harvesting season depends greatly on type
Onions		Î							gre	en onion	is i	bull	bs	
Peas (early and	late vari	eties)		8										
Potatoes														Harvest and store
Radish														
Red Cabbage	8		=											
Rutabaga		=			=									
Spinach														
Turnip														
I	Code:	Pla	nt seeds		Plant se	edlings		Harves	t	Range	ofseaso	•	Plant	seeds indoors/in greenhouse



For next week

• Fill in planting exercise

• Bring any garden bugs.

• Bring samples of weeds.

