Beginner Seed Starting



CITRUS HEIGHTS WATER DISTRICT

- WaterSmart Classes posted on our YouTube
- Programs
 - Water Wise house calls for a free smart irrigation controller and water audit
- Rebates
 - Ultra-Low Flush Toilet
 - Pressure Reducing Valve
 - High-Efficiency Clothes Washer

For more information contact us <u>Waterefficiency@chwd.org</u> (916) 725-6873 or Go to our website: <u>https://chwd.org/rebates/</u>



Beginner Seed Starting Propagating Plants by Seed

Presentation for Citrus Heights Water District

By Ruth Ostroff March 13, 2025

Methods of Propagation

Asexual reproduction (cuttings, divisions)

Sexual reproduction (seeds)

Methods of Propagation

Propagation By Seeds

Why Plant from Seed?

Cost-effective for large gardens

Greater variety selection

Grow heirlooms & unique species



Seed Options: Hybrid, GMO, & Heirloom Seeds







Hybrids (F1): Bred for specific traits GMO/BE:

Genetically modified for benefits Heirlooms:

Openpollinated & true-to-type reproduction

Understanding Seeds

- A seed consists of:
- Plant embryo
- Food reserve
- Protective seed coat



Seed Dormancy & Germination

Environmental cues required for dormancy break include:

Moisture, Temperature, scarification (nicking the seed coat)



When to Plant? Timing is Everything

Timing is Everything! Timing is Everything!! Timing is Everything!!!

When to Plant from seed

University of California Agriculture and Natural Resources Cooperative Extension-Sacramento County

4145 Branch Center Road, Sacramento, CA 95827-3823 (916) 875-6913 Office • (916) 875-6233 Fax Website: sacmg.ucanr.edu

Environmental Horticulture Notes

SACRAMENTO VEGETABLE PLANTING SCHEDULE

EHN 11

Sacramento Vegetable Planting schedule:

Environmental Horticultural Note #11

https://sacmg.ucanr. edu/files/117117.pdf

	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEP	Ост	Nov	DEC
Asparagus	Р											Р
Beans, fava												
Beans, lima												
Beans, snap												
Beets												
Bok choy (pak choi)	Р								Р	Р	Р	Р
Broccoli		Р	Р						Р			
Broccoli rabe												
Brussels sprouts							P		Р			
Cabbage		Р							Р			
Cabbage, Chinese		Р										
Carrots												
Cauliflower		Р	Р						Р			
Celeriac												
Celery						Р	Р		Р	Р	Р	
Chard, Swiss												
Chives			Р	Р	ΡP							
Collards												
Corn												
Cucumbers												
Eggplant				Р	Р	Р						
Endive												
Fennel, Florence									Р	Р	Р	
Garlic												
Jicama												
Kale		Р								Р	Р	Р
Kohlrabi									P	Р	Р	
Leeks	<u> </u>	PR	P			Р						
Lettuce, head												
Lettuce, leaf									Р	Р	Р	Р
Melons												
Mustard												
Okra												
Start in sheltered area			ct see			_	_				plants	Р

Persephone Days

Days when daylight drops below 10 hours/day. Mid Nov. to the end of Jan.

Plant growth is limited due to insufficient light.

Plant your Fall gardens to reach 75% growth by Mid November.

Growth picks up again when days are longer than 10 hours.



www.crystalvaults.com

Tools for Seed Starting

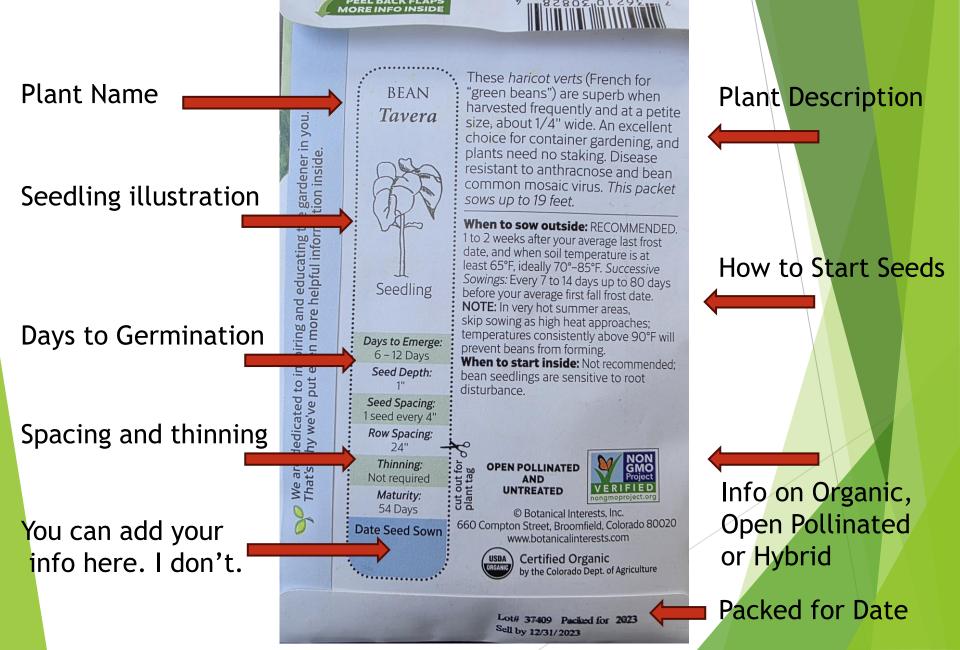
- Heating mats for warm season plants & grow lights

- Clean containers & humidity domes

Soil-less mix& plant labels

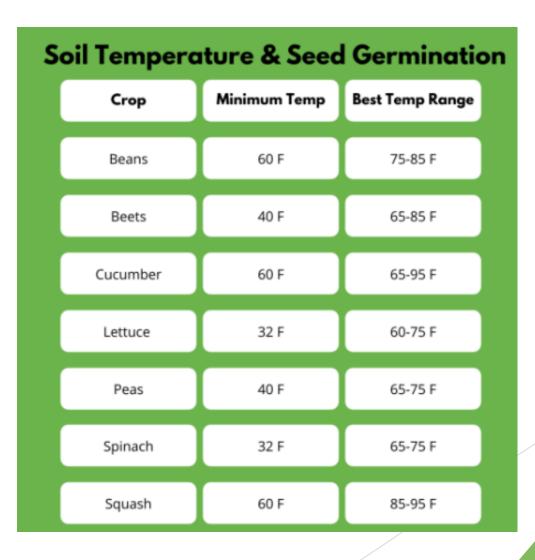
Reading Your Seed Packet

MORE INFO INSIDE



Soil Temperature is important

Most seeds will germinate in soil at 65 - 70 degrees F.



Seed Longevity

How Long do seeds last?

How do I know if they are still viable?





Planting & Thinning Thin seedlings with scissors after true leaves develop

Follow seed packet for plant spacing

Seed Storage

- Store <u>dry</u> seeds in clean containers, such as Paper envelopes, jars, zip-lock bags
- Keep in a cool, dry location
- Note seed longevity chart



Common Seedling Issues

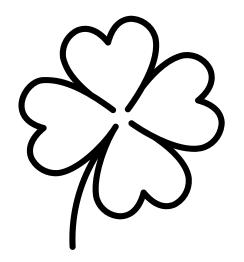
- Be sure your pots are clean
- Use sterilized, fast draining seed starting mix
- Use fresh highquality seeds



More Common Seedling Issues

- Prevent dampingoff with sanitation & drainage - don't keep plants soggy
- Seeds are planted too deeply
- Protect seeds from birds & critters





Happy Planting and Good Luck!

Questions?