# More Please! How to Propagate Succulents



Presented by UC Master Gardeners of Placer County



### Who Are Master Gardeners?

### Master Gardeners of Placer County

- Extend research-based, sustainable gardening and composting information
- Present accurate, impartial information to home gardeners
- Encourage public to make informed gardening decisions

### Who Are Master Gardeners?

#### Where to find us...

#### Online, in the Media, and Special Publications

- ❖ Hotline: Call (530) 889-7388 or submit your questions online
- Website: pcmg.ucanr.org
- Facebook, Twitter, Instagram
- Gold Country Media monthly column
- Curious Gardener quarterly newsletter on our website
- Gardening Guide and Calendar



### Who Are Master Gardeners?

#### Where to find us...

Workshops, Fairs and Festivals, and Special Events

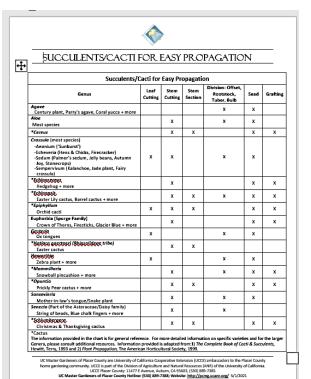
- Speakers by Request
- Workshops (various venues, check website)
- \*Farmers' Markets (seasonal: Auburn, Roseville)
- Fairs and Festivals Booths (varies)
- ❖ Garden Faire (April)
- ❖ Mother's Day Garden Tour (May)



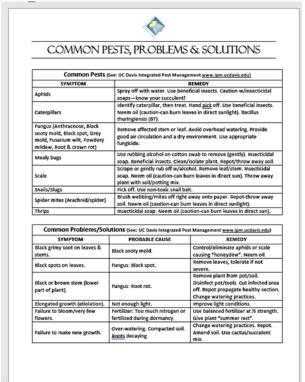
### Visit our website: pcmg.ucanr.org



### Handouts



SUCCU	LENT VARIETIES FOR	PLACER COUNTY
	Succulent Varieties for Pl	acer County
Agavaceae (family	( name)	
Agaves	Artichoke agave (A. porryi)	Parry's agave (A. porryi huochucensis)
(SG/WD)	Century plant (A. Americana)*	<ul> <li>Royal agave (A. victorioe-reginioe)</li> </ul>
	<ul> <li>Miniature century plant (A. toumeyono)</li> <li>Coral yucca/Hummingbird yucca* (Hesper</li> </ul>	aa
Yuccas	Curved leaf/soft leaf (Y, recurvifolio)	aloe parvijiara)
(SG/WD)	Gold edge (Y. filamentosa Variegata')	
	Spanish dagger (Y. gloriosa)	
Aizoaceae	- Constitution of the state of	
Ice plants & Lithops	<ul> <li>Cooper's ice plant (Delosperma cooperi )*</li> <li>Ice plants (Cephalophyllum)</li> </ul>	
(SG/WD)	Living stones/ Pebble plants (Lithops)	
Aloaceae		
	Bitter aloe (A. ferox)	Mitre aloe (A. perfolioto)
Aloes (WG/SD)	<ul> <li>Candelabra aloe (A. arboescens)</li> </ul>	<ul> <li>Mountain aloe (A. marlothii)</li> </ul>
(wetan)	Cape speckled aloe (A. microstigma)     Coral aloe (A. striata x saponaria)	Short-leave aloe (A. brevifola) Spider aloe (A. humulis)
	Coral aloe (A. striata x sapaneria)     Elias Buhr's aloe (A. buhrii)	Tiger aloe (A. vorigoto)
Asphodelacea	- Lilas burii s aloe (xt. buri/ii)	- inger ander per von gener
Bulbine	Cape balsam (8. frutescens; 'Hallmark' or	nd 'Tiny Tangerine')
(WG/SD)		
Crassulaceae (Cra		Sunburst (A. decorum tricolor)
Aeoniums (WG/SD)	Houseleek tree (A. arboretum)     Large purple aeonium (A. Zwartkopf)	Sunburst (A. decorum tricolor)
(WG/3D)	• E. 'Afterglow'	Hens & Chicks (E. Impricato)*
	• E. 'Black Prince'	Lipstick (E. ogovoides)
Echeverias (SG/WD)	Firecracker (£. setoso)	<ul> <li>Whitening echeveria (£. olbicons)</li> </ul>
(30)110)	Fire & Ice (E. subrigada)	<ul> <li>Wooly rose (E. 'Daris Taylor')</li> </ul>
	E. Graptopetalum     Autumn joy stonecrop (5. spectobile)	Palmer's sedum (S. polmeris)*
Sedums	Frosty morn (S. erythrostictum)	Purple emperor (S. x "Purple (mperor")
(Stonecrops)	Jelly beans (S. rubrotinctum)	<ul> <li>Showy stonecrop/Everlasting (S. spectabile)</li> </ul>
(WG/SD)	Large red carpet stonecrop (C. rodicans)	• S. "Rosy glow"
	Crassulas	Jade rose
Sempervivums	Fairy crassula (C. multicovo)     Hen and Chicks	Jade plant (C. ovata)     Kalanchoes
(WG/SD)	Hopewell (S. tectorum ssp greenii)	• Raianchoes
	- Ginnie's delight	
Euphorbiaceae		
Euphorbias,	Crown of thorns (E. Milir)	Glacier Blue (E. chorocios)
Spurges (SGAVD)	Firesticks (E. tirucalli 'Rosea')	<ul> <li>Poinsettia (E. pulcherrimo)</li> </ul>
And Many More	:!	
	UC Arboretum "All Star"	
SG/MD WG/SD	Summer Growers/Winter Dormancy (May-Aug/) Winter Growers/Summer Dormancy (and often	Nov-Feb)



# Agenda

#### Welcome!

- WHO are Master Gardeners?
- WHO can propagate succulents?
- **❖** WHAT is propagation?
- HOW to propagate succulents.
- Wrap-Up.



# WHO Can Propagate Succulents?

- Anyone can propagate succulents!
  - One of the easiest plants to propagate.
- Succulents lend themselves to multiple methods of propagation.
- Many varieties can grow in Placer County and are easy to propagate.
  - See handout "Succulents Easy for Propagation".



# **Definition of Propagation**

"Plant propagation is the process of increasing the numbers of a given species."

(California Master Gardener Handbook, 2<sup>nd</sup> ed., p. 110)

- Two types of propagation:
  - 1. Seeds (sexual reproduction)
    - From the floral parts of a plant.
  - 2. Vegetative (asexual reproduction)
    - From the nonfloral parts of a plant.
    - Leaves, stems & roots.





## **Propagation Fundamentals**

- Choose best propagation method for succulent variety.
- Avoid using very young plants.
- Determine your succulent's growing and dormant seasons.
  - See handout "Succulent Varieties for Placer Co."
- Propagate beginning of active growth period, often early spring up to June.

### Propagation Fundamentals (continued)

- Sterilize tools and other equipment.
- \* Keep out of direct sunlight.
- Provide good air circulation.
- Don't overwater!



- can take weeks to months to see any roots.
- often the "mother" leaf will begin to wither.
- Transplant.





### **Three Easy Methods**

1. Seed germination.

### 2. Cuttings:

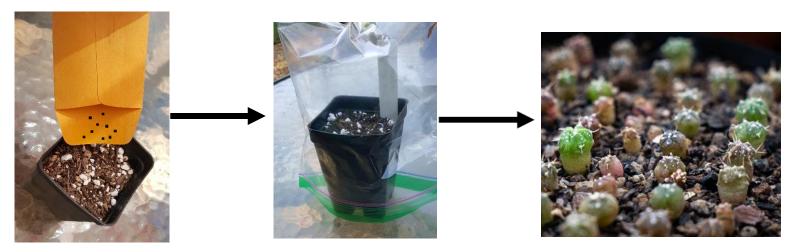
Leaves and stems.

#### 3. Division:

Offsets and roots.

#### 1. Seed Germination

- Mostly used for cacti.
- Need time and patience.
- Seeds from retail or collect your own.
- Usually sown in April for germination in late spring.



### 2. Cuttings: Leaf

- "Cleanly" pull/cut healthy leaf away from plant.
- Lightly dust cut end of leaf with rooting hormone/fungicide.
- Allow leaf to form callus (1-2 days to 1 week).



### 2. Cuttings: Leaf (continued)

- Lay callused leaf on top of succulent mix with perlite or small gravel on top of tray or pot or...
- Lightly "firm in" callused end.
- Label, water and allow pot/tray to drain completely. Keep slightly moist.
- Transplant when ready.



#### 2. Cuttings: Stem

- Choose a healthy, sturdy stem (too long will wilt, flop over).
- Cut straight across, directly below a leaf node, stem joint or bud.
- Cut at stem segment for Christmas, Easter Cactus.
- Trim stem to 2-4" in length.

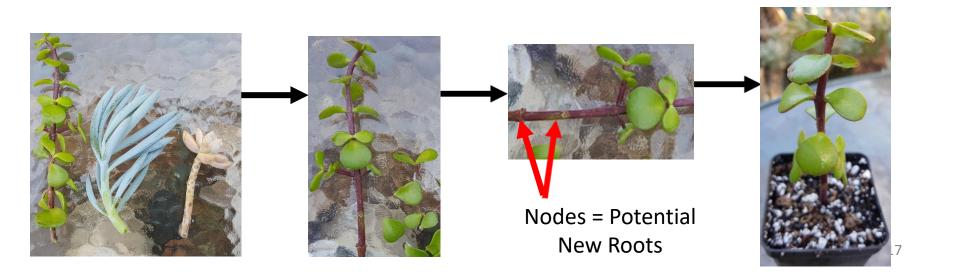






### 2. Cuttings: Stem (continued)

- Gently remove lower leaves of stem & <u>allow to callus</u>.
- Top succulent mix w/small, ground lava or perlite.
- Gently push cutting in slightly moistened succulent mix.
- Be patient while roots develop!



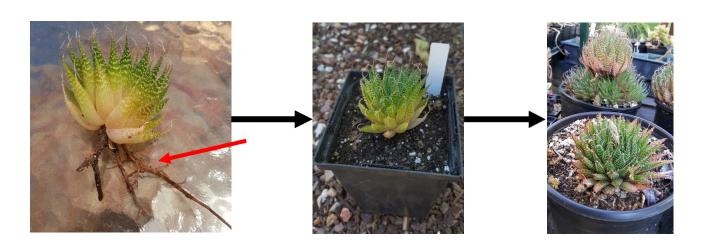
### 3. Division: Clumping Offsets/Pups

- Dig up succulent or remove from pot.
- Pull, tease or cut away offsets from base of plant.



### 3. Division: Clumping Offsets/Pups (continued)

- **Each offset should have:** 
  - its own vigorous roots
  - at least one growing point, shoot.
- Allow to <u>callus</u>.
- Top succulent mix w/small, ground lava or perlite.
- Gently place offset in slightly moistened succulent mix.
- Lightly water <u>after 2-3 days</u> to avoid root rot.



#### 3. Division: Rootstock

- During <u>dormant</u> season, dig up or remove parent plant from ground or pot.
- Use a sharp knife to cut rootstock or tubers into sections.
- Each section should have:
  - its own vigorous roots
  - at least one growing point, shoot.



#### 3. Division: Rootstock (continued)

- Remove any damaged, old or woody part of section.
- Allow to callus.
- Replant into succulent mix.
- Lightly water <u>after 2-3 days</u>.



## A Plethora of Succulents!



## Wrap-Up

- WHO are Master Gardeners?
- WHO can propagate succulents?
- WHAT is propagation?
- HOW to propagate succulents.



### Thank You!

## Any Questions?

Master Gardener Hotline: (530) 889-7388

Rot Line: (530) 889-7399

Master Gardener Website: pcmg.ucanr.org