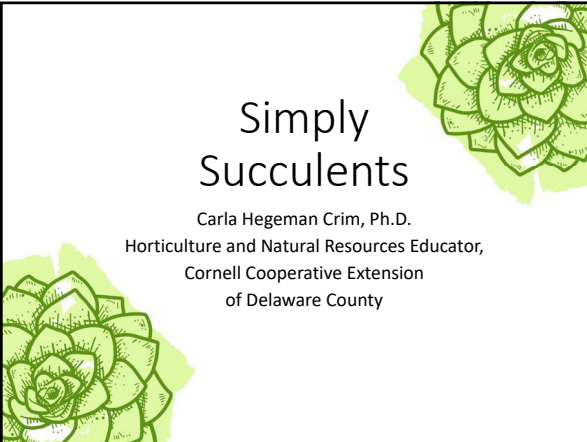


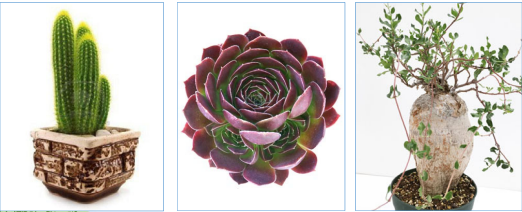
Simply Succulents

Carla Hegeman Crim, Ph.D.
Horticulture and Natural Resources Educator,
Cornell Cooperative Extension
of Delaware County



Q. What is a succulent?
A. A plant that stores water in its tissues

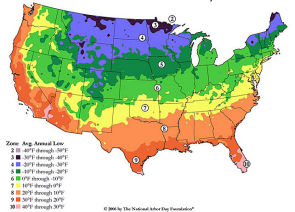
Stem Leaf Root



Two types of succulents (*for our purposes*):

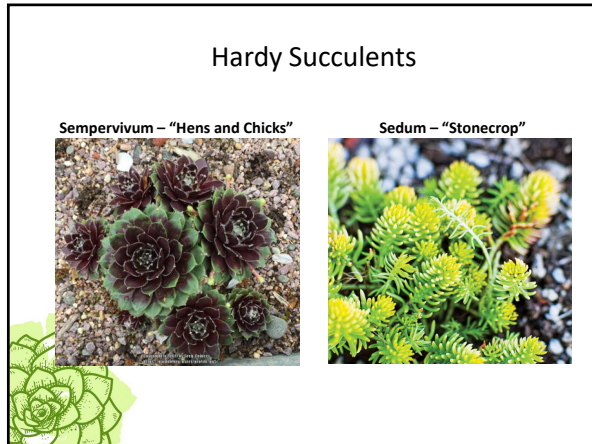
- 1) Hardy in zone 5b – perennials
- 2) Frost sensitive – annuals and houseplants

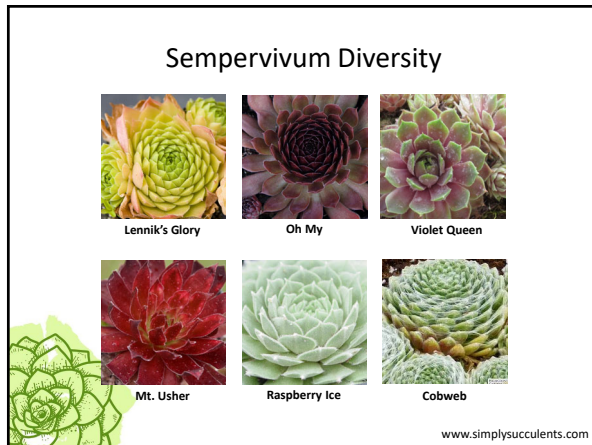
Hardiness Zone Map

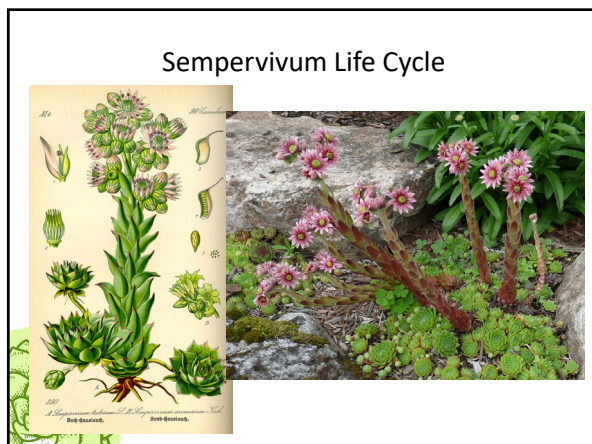


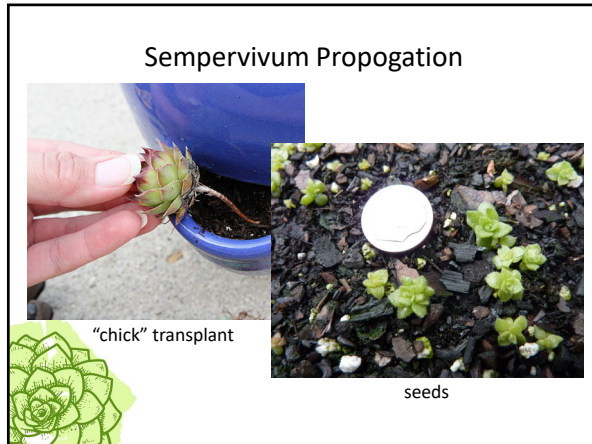
Zone: Avg. Annual Low
1 20° F through 30° F
2 30° F through 40° F
3 40° F through 50° F
4 50° F through 60° F
5 60° F through 70° F
6 70° F through 80° F
7 80° F through 90° F
8 90° F through 100° F
9 100° F through 110° F
10 110° F through 120° F
11 120° F through 130° F

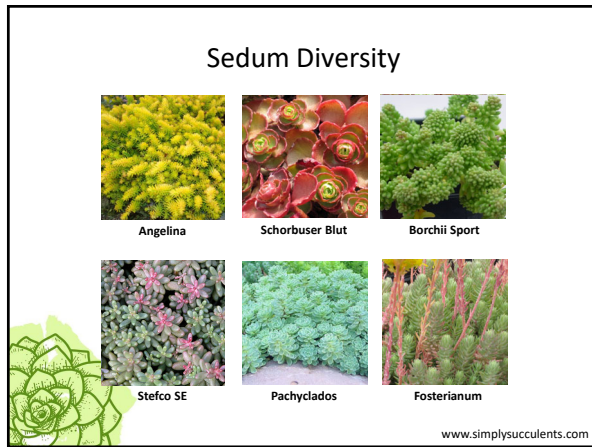
© 2004 by The National Arbor Day Foundation

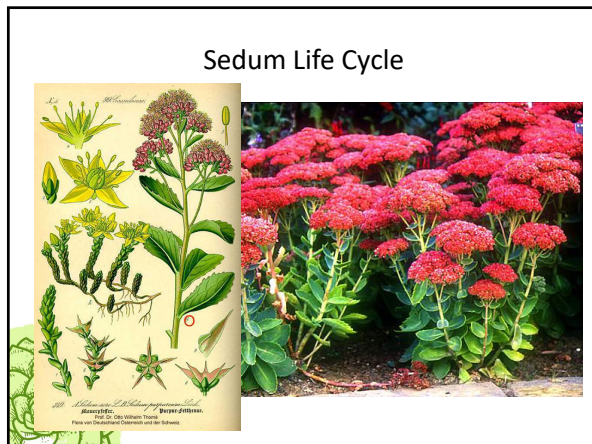









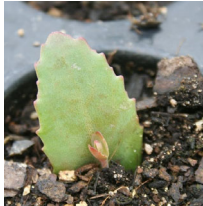





Sedum Propagation













Stems



leaves



seeds

Preparing a hardy succulent bed

Site requirements

- 1) Full sun for best color
- 2) Good drainage!

Slightly Acid - Neutral Soil
6.5 to 7.5

Can use cactus mix for smaller plantings.

To amend existing garden soil, add equal parts sharp builder's sand and a larger, coarse material, such as gravel or pumice





Succulents in containers




Container requirements

- 1) Frost tolerant
- 2) Good drainage!
- 3) Proper soil mix

Tips

- Plant above the rim
- Space plants closely
- Drill drainage holes if needed
- Mulch with gravel or stones



DIY hypertufa containers





Combine in ratio of 1:1:1
 •Portland cement
 •perlite (or vermiculite)
 •peat moss

Mix well and add 1 part water. Mix until moist and lumpy, holding together. Let rest for 5-10 minutes, then pat it over a lightly oiled mold. Make drainage holes. Cover with plastic and let cure. After 48 hours or so, brush with wire brush and paint with a buttermilk mixture if you wish to encourage moss.

Workshop 6/22 in Downsville!






Succulents in rock gardens

Building:

- Sink larger rocks into the ground
- Place a few half-sunk stones, of different sizes in groups (like a natural outcropping)
- Combine a rock garden with a water feature, setting rocks around and to one side of the water.
- Line the rocks directionally, so they seem to be rising from within the earth.

OR plant right in stone walls/
 natural rock formations

Hardy succulent companions




Prairie plants – Echinacea, yarrow, lamb's ears, blanket flower, black-eyed Susan, salvia

Alpine varieties – Dianthus, creeping phlox, columbine, veronica

Mediterranean Herbs – thyme, sage, lavender, tarragon, rosemary, chives





Ornamental grasses

Bearded Irises

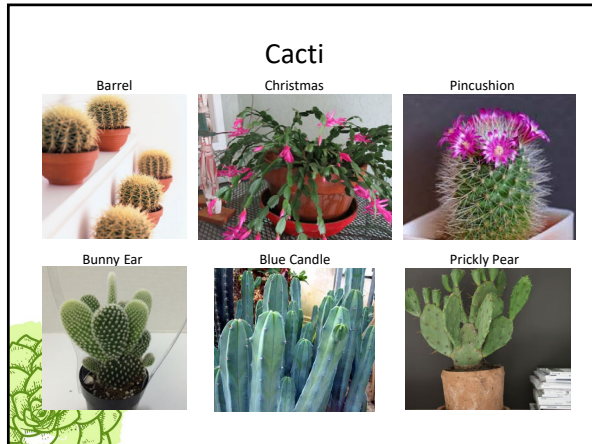


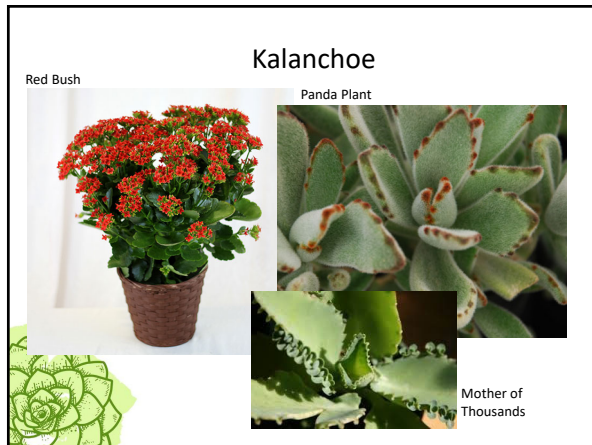
Other annual succulents

<p>Portulaca – "Moss Roses"</p> 	<p>Euphorbia</p> 
	<p>Portulaca – Purslane</p> 

Tender Succulents aka Houseplants









Aloe Vera

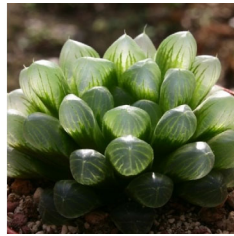


Haworthia

Zebra Cactus

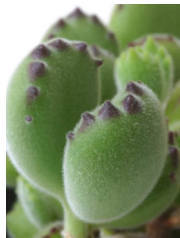
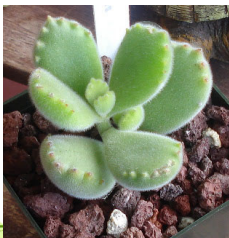


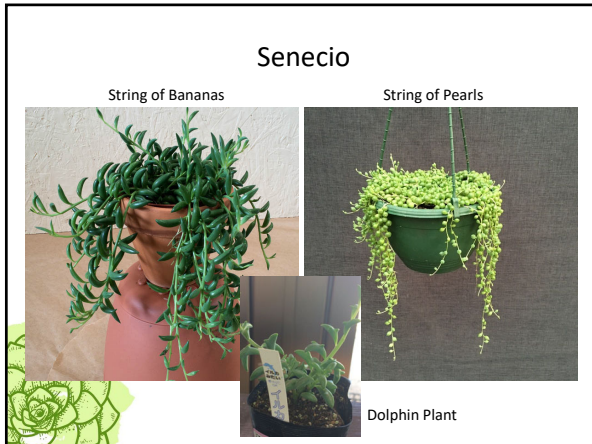
Star Cactus

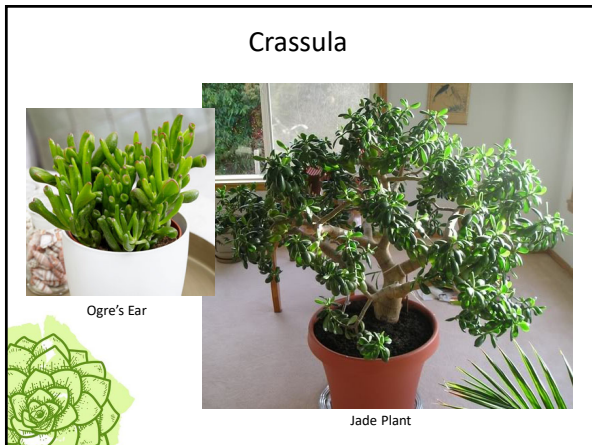


Cotyledon tomentosa

Bear's Paws

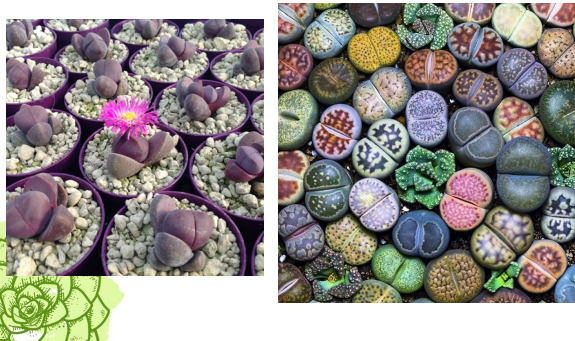








Pleisopilos & Lithops

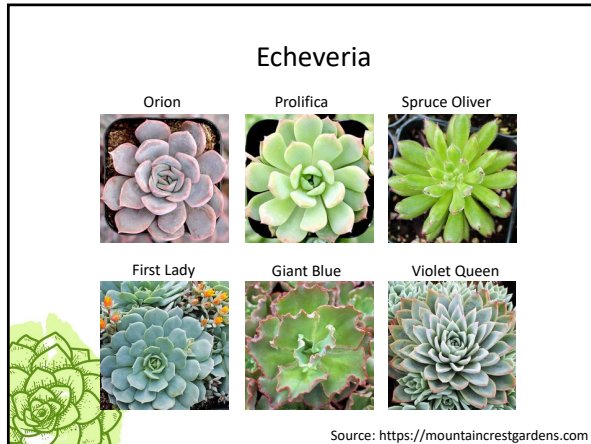


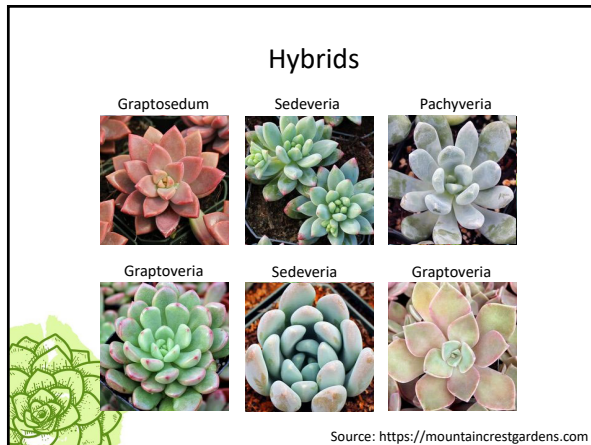
Air Plant

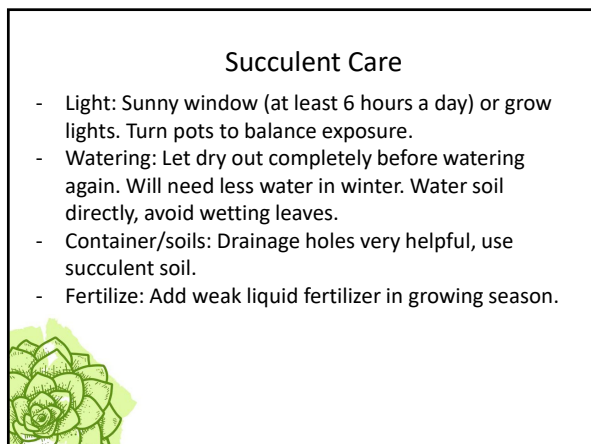


Tender Sedum Varieties









Succulent Pests

- Mealy Bugs
- Aphids
- Scale
- Spider Mites
- Fungus Gnats



Remedies:

- Squashing, washing with water
- Rubbing alcohol
- Neem oil
- Insecticidal soap



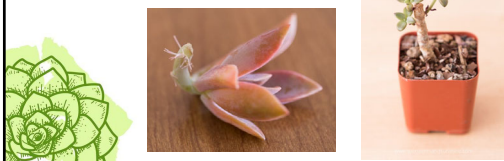
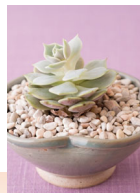
Leaf Propagation

1. Water mother plant
2. Cut or pluck leaves close to base
3. Let dry 1-3 days
4. Place leaf on (not in) soil
5. Water as needed
6. Roots appear in 2-4 weeks
7. Plantlets appear in 6-8 weeks



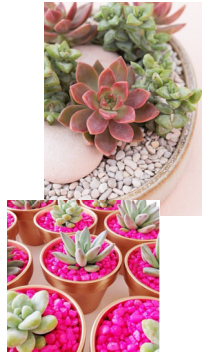
Decapitation

1. Pull off leaves along stem
2. Leave rosette at top
3. Snip off rosette, leave about 3" of stem
4. Let leaves and rosette dry and root
5. Don't throw out base!
6. Plantlets appear in 6-8 weeks



Top-Dressing

- Light topping – about ½”
- Sets off individual plant or arrangement
- Can use gravel, tumbled glass, dried moss, sand, etc.
- Reduces water loss, but makes monitoring dryness a bit more difficult



Succulent Arrangement

