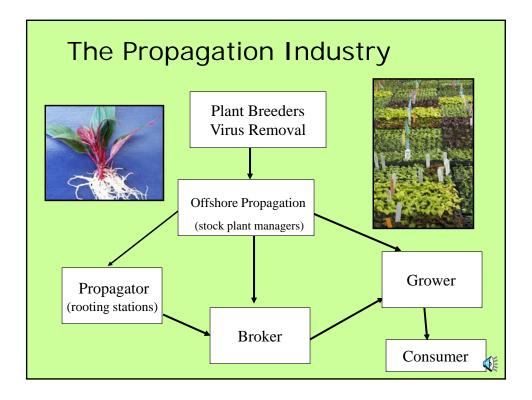


Plant Patents

- New plants are developed yearly.
- Illegal to propagate
- Firms collect royalties.
- The industry is carefully monitored.
- Expire in 17 years

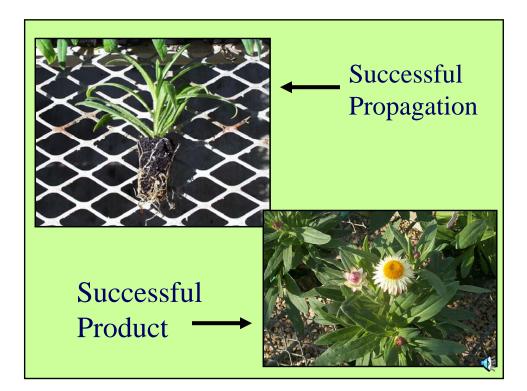


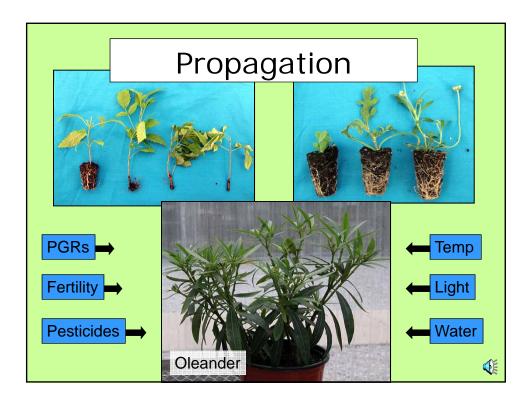


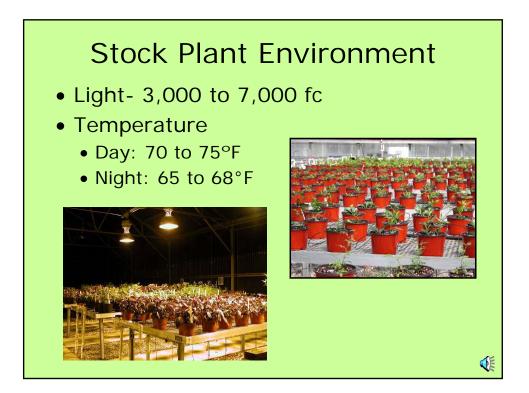












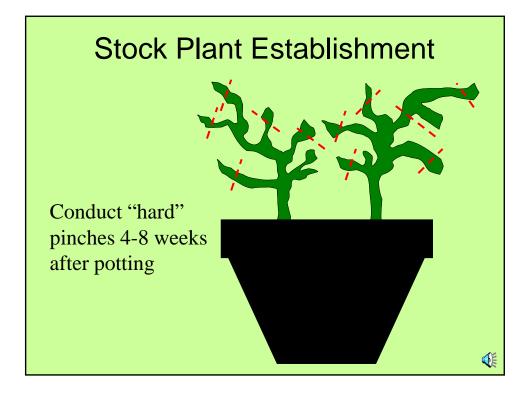
Stock Plant Culture

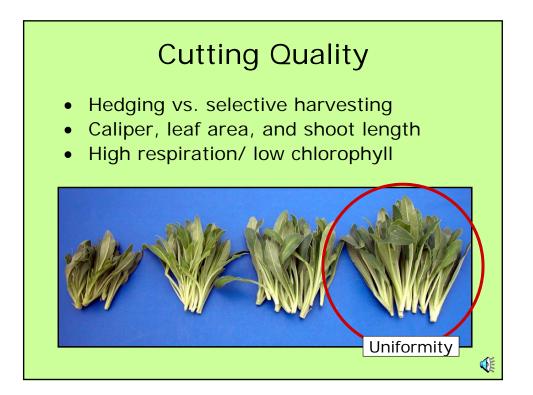
- 2 to 3 cuttings per 6.5 to 7.5 inch pot
- Spacing 0.5 to 1.5 sq. ft. per 6.5 to 7.5 inch pot
- Nutrition
 - 150 to 250 ppm N
 - pH = 5.8 to 6.2
 - EC (PourThru) = 2.5 to 4.0 mS/cm



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The Vegetative Cutting

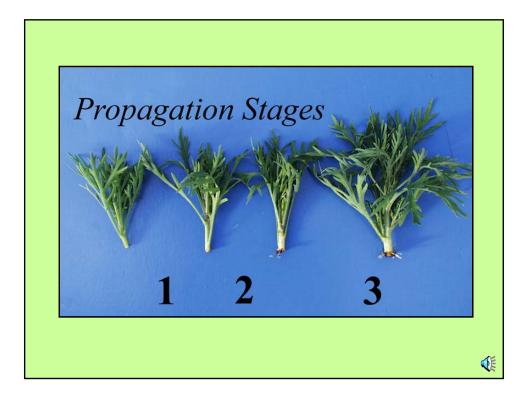


- Shoots
 - 5 to 6 leaves
 - Healthy tissue
- Roots
 - Adventitious
 - Fibrous
- "Heavy" stem
- No flowering

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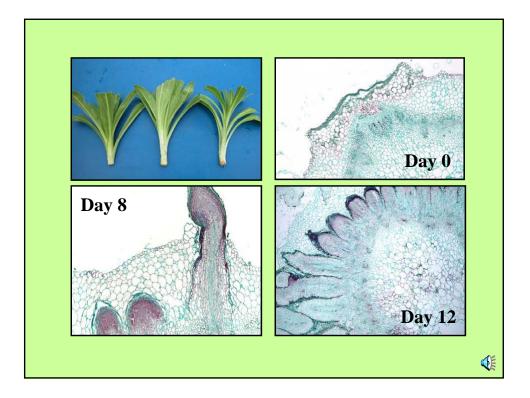


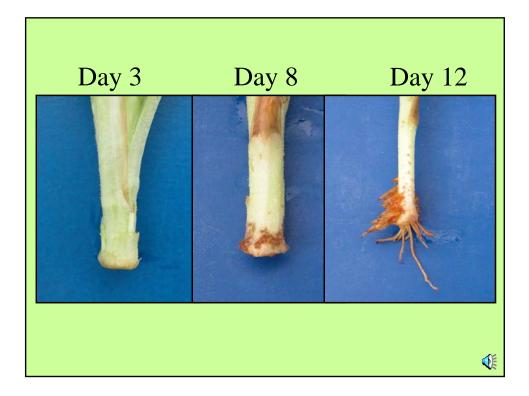
Stage 1

- Light- 500 to 1,000 fc
- Temperature
 - Bottom heat: 68 to 80°F
 - Air temperature: 70 to 80°F
- Moisture
 - Mist: 5 to 10 min/ 3 to 8 sec
 - Media: moist, not saturated
- Fertility- < 0.75 mS/cm









Stage 2

- Light- 1,300 to 1,800 fc
- Temperature
 - Bottom heat: 68 to 73°F
 - Air temperature: 68 to 73°F
- Moisture
 - Mist: 10 to 20 min/ 3 to 5 sec
 - Media: moderate level
- Fertility- 50 to 75 ppm N weekly



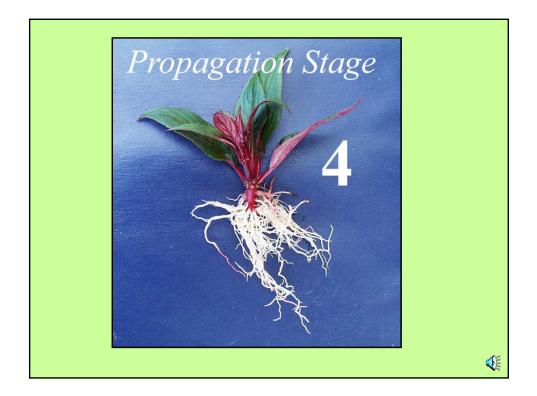
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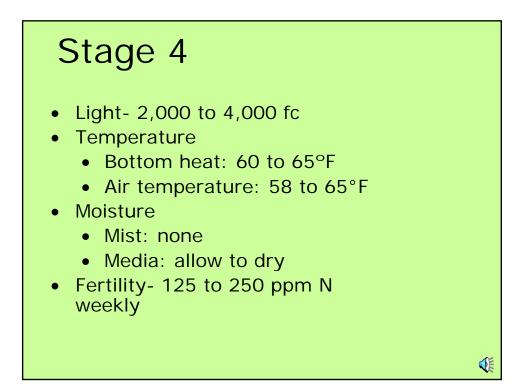
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Stage 3

- Light- 1,500 to 2,300 fc
- Temperature
 - Bottom heat: 65 to 68°F
 - Air temperature: 65 to 68°F
- Moisture
 - Mist: discontinue, syringe
 - Media: reduce moisture
- Fertility- 50 to 100 ppm N weekly







	Stage 1	Stage 2	Stage 3	Stage 4	
Light	500 to 1,000	1,300 to 1,800	1,500 to 2,300	2,000 to 4,000	
Temp.					
Bottom heat	68 to 80°F	68 to 73°F	65 to 68°F	60 to 65°F	
Air Temp.	70 to 80°F	68 to 73°F	65 to 68°F	58 to 65°F	
Moisture					
Mist	5 to 10 min/ 3 to 8 sec	10 to 20 min/ 3 to 5 sec	Discontinue, syringe	Begin overhead, subirrigation	
Media	Moist, not saturated	Moderately moist	Reduce moisture	Allow media to dry	
Fertility	< 0.75 mS/ cm	50 to 75 ppm N, low P/ NH ₄ -N	50 to 75 ppm N, low P/ NH ₄ -N	125 to 250 ppm N, toning MgSO ₄ , iron chelate	A