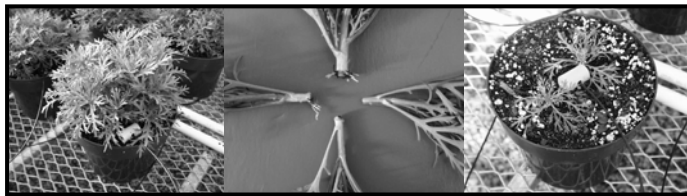




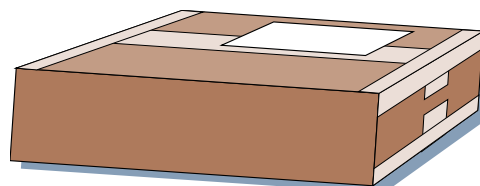
Stock Plant Management

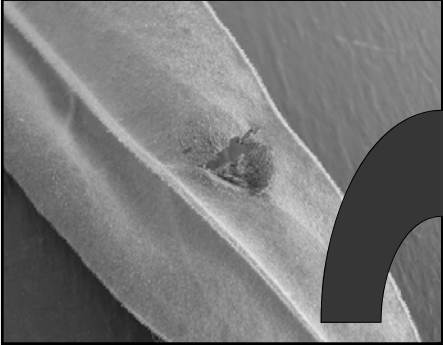

James L. Gibson
University of Florida-Milton
Floriculture Research



Ethylene

- 3 to 7 days
- 38 to 65°F
- Cooled to 38°F
- Prevent >50°F
- Unpack and re-hydrate immediately



	<p>What to do when problems occur?</p>
<ul style="list-style-type: none">• Shoot it• Report it• Dispose of it	

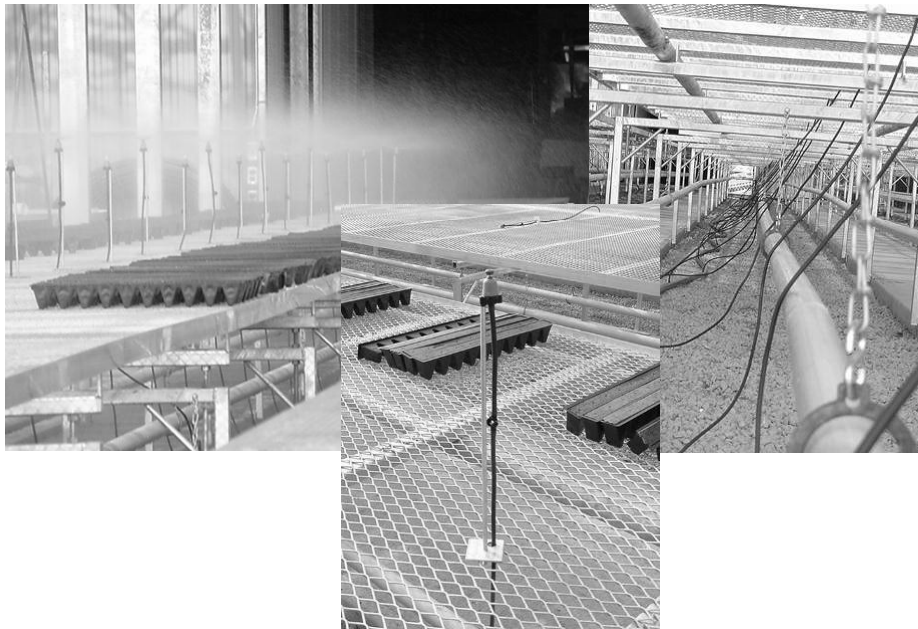
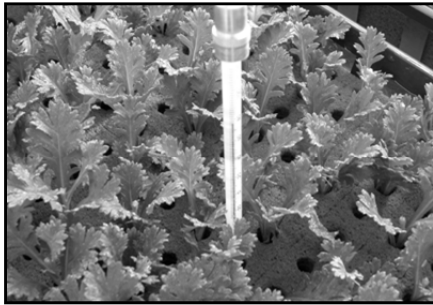
Propagation Environment

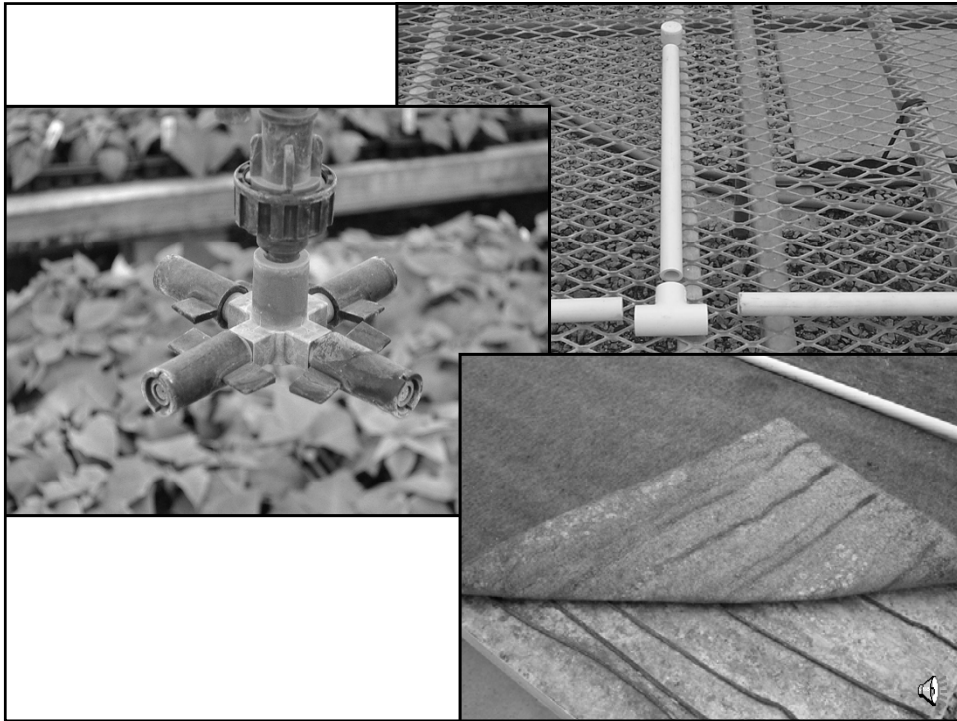
- Separate from production
- Screening and barriers
- Rigid flooring

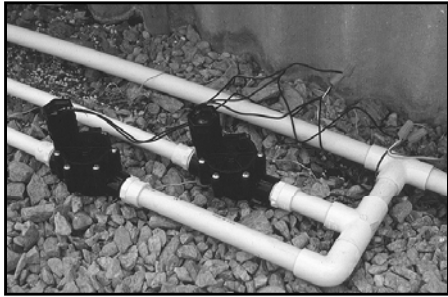


Propagation Environment

- Thermometers check hot/ cold spots
- Mist risers- 24" above bench







Sanitation

- Greenshield®
 - 12 fl oz / 25 gal.
- Basins
 - Bleach and soap
 - 2 caps bleach + 1 Tbsn. soap/ 5 gal.
- Footbaths (QACs)

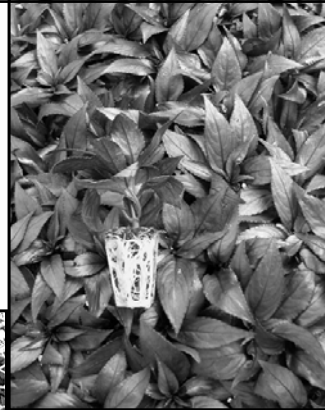
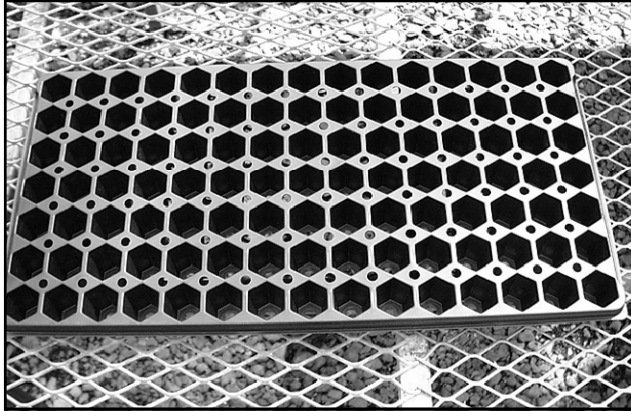


Which rooting substrate should I use?

- 50/50 peat:perlite
- IHT
- Ellipot
- Ener-G System
- Fertiss
- Jiffy
- Oasis or Agri-foam
- Plug mix
- Preforma



Which type of
rooting tray
should I use?



Deeper the
cell, better
the drainage



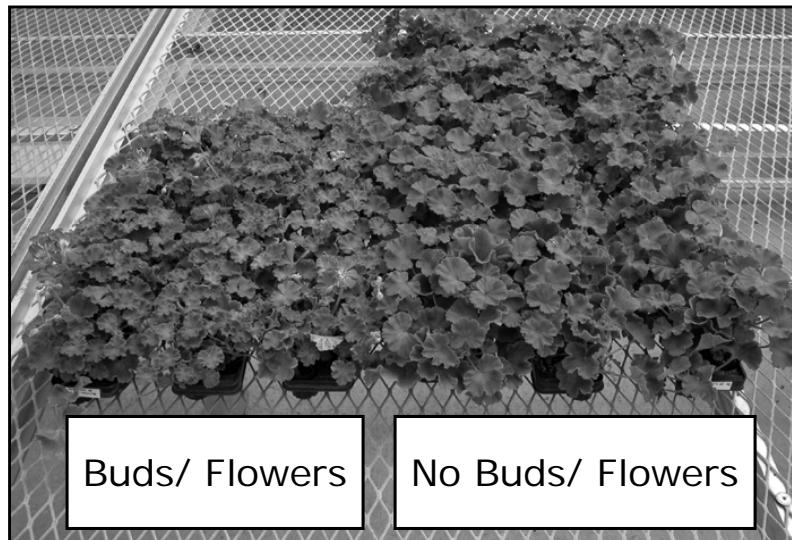
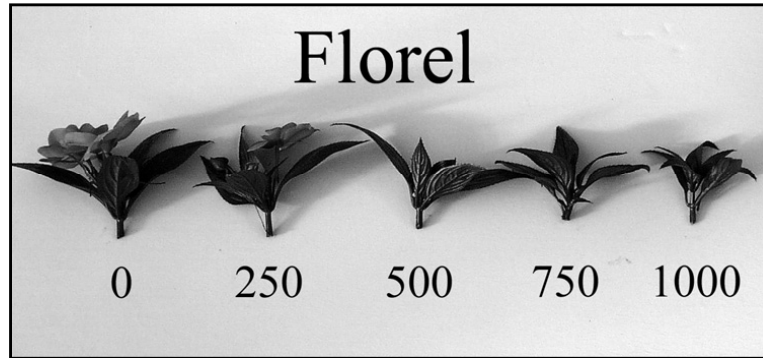
Rooting Hormones???

- IBA (1,000 to 3,000 ppm)
- K-IBA (water soluble)
- NAA (500 ppm)
- Quick-dip
- Species
 - Bracteantha
 - Mimulus
 - Osteospermum



Florel

- Flowering- 6 to 8 weeks from application
- Can be applied during propagation
- 250 to 500 ppm



Be aware of stock plant management issues.





Be aware of stock plant management issues.

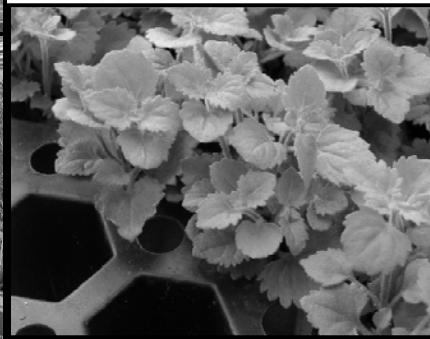


Be aware of stock plant management issues.





Pinching during propagation prevents legginess.



Management of Stock Plants to Maximize Cutting Propagation

- Selection and maintenance of source material that is easy-to-root
- Type of wood selected
- Wounding



Management of Stock Plants to Maximize Cutting Propagation

- Manipulation of environmental conditions and physiological status of stock plant in relation to:
 - Water status
 - Temperature
 - Light
 - Stock plant etiolation
 - Girdling
 - CO₂ enrichment
 - Carbohydrates
 - Managing carbohydrate/nitrogen levels



Maximized Rooting of Woody Ornamentals

- Easy-to-root
- Juvenile
 - Physiological age
 - Chronological age
- Shearing/Hedging



This azalea plant
has been selected
for cutting
production because
of its outstanding
flowering traits.



Stock plant of live oak



Magnolia propagation