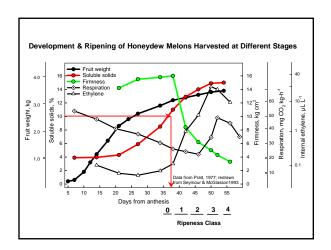
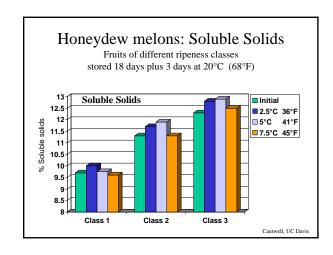
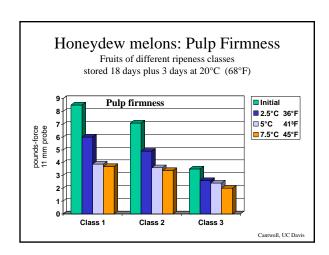
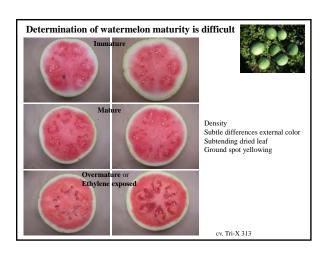


Honeydew and Orange Flesh Melons Maturity and Ripeness Classes • Class 0: Immature Average 4 cvs Honeydew melons • Class 1: Mature, but Unripe Int. C2H4. Pulp firm., Sol. solids Ground color greenish-white; <10 < 0.2 3.8 peel fuzzy; no aroma; 10% 1 = Mature, Unripe 0.8 10 3.1 soluble solids; flesh crisp, 2 = Mature, Ripening 5.2 11-12 melon splits when cut; minimum harvest maturity 3 = Ripe27.1 1.5 12-14 Class 2: Mature, 4 = Overripe 29.4 1.1 14-15 Ripening Ground color white; begins to develop surface wax; pulp crisp, melon splits









Melon Storage Conditions

Cantaloupes

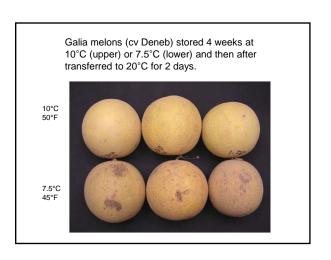
- 2.5°C (36°F), 90-95% RH
- 3-5% Oxygen + 10-15% carbon dioxide
- 2-3 weeks

• Honeydew, Specialty Melons

- 5 to 15°C (41 to 59°F), 80-90% RH
- optimum temperature depends on ripeness
- 2-6 weeks

Watermelon

- 10-20°C (50-68°F)
- Sensitive to ethylene
- 1-3 weeks



Decay Control: Cantaloupe

- Minimize physical injury
- Storage temperature: 2-3°C (34-36°F)
- Chlorinated water wash (100 ppm)
- Fungicide in wax
- Hot water dip (135°F for 3 min)
- High CO2 concentrations (10-15%)



Allow time (2-3 days, ambient) to change color, improve aroma

Conditioning or Ripening Melons Honeydew Melon Example

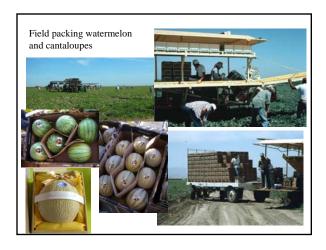
Conclusions from a study on cv Emerald

- 12 hours 20-50 ppm ethylene
- Hold 2-3 days at 20°C (68°F)
- Maturity stage 2 (minimum ~11% SS)

Improve external color Improve aroma BUT Loss of texture No improvement in sugars

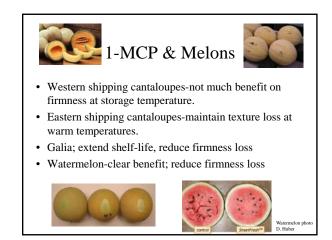


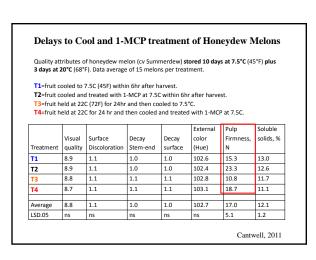


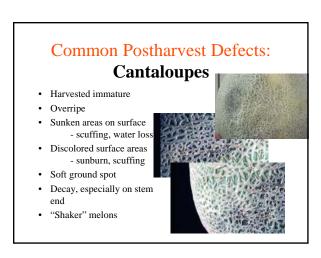


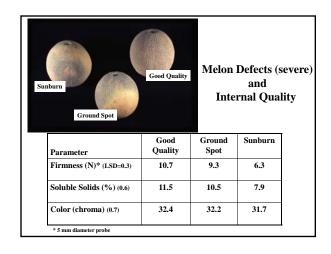


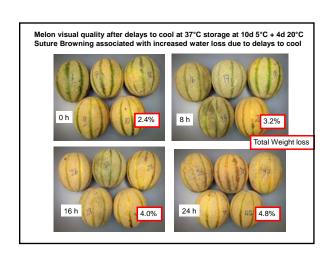


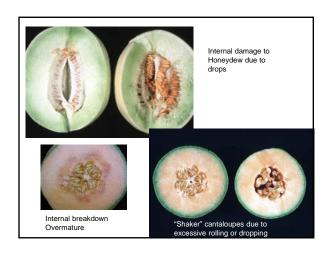


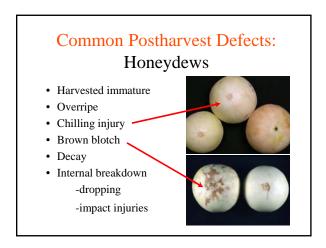


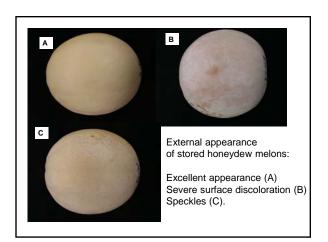


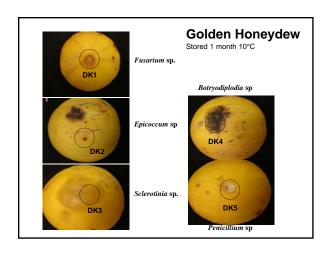




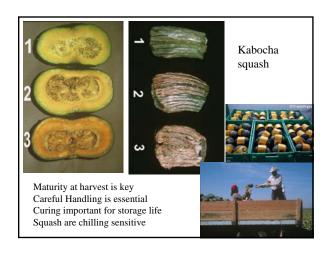




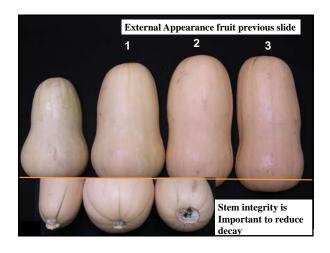


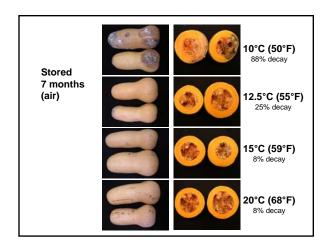


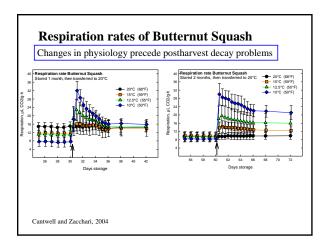












Winter Squash and Pumpkin Storage Conditions

- Well cured
- Temperature: 12.5-15°C (55-59°F)
- RH: 50-70% with 60% usually considered optimum
- 2-6 months
- Avoid ethylene
- Modified atmosphere not beneficial