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**Factors affecting the postharvest life of ornamentals**

- **Temperature**
- Water supply
- Damage
- Disease
- Ethylene
- Food supply
- Growth



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**The marketing chain**



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## Harvest



- Temperature
- Water supply
- Damage
- Disease
- Ethylene
- Food supply
- Growth




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## Grading

- Temperature
- Water supply
- Damage
- Disease
- Ethylene
- Food supply
- Growth




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## Pretreatments



- Temperature
- Water supply
- Damage
- Disease
- Ethylene
- Food supply
- Growth




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## Packing

- Temperature
- Water supply
- Damage
- Disease
- Ethylene
- Food supply
- Growth




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## Cooling

- Temperature
- Water supply
- Damage
- Disease
- Ethylene
- Food supply
- Growth




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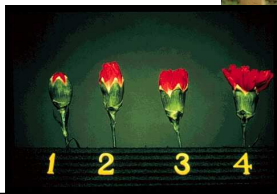
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## Selection

- Maturity




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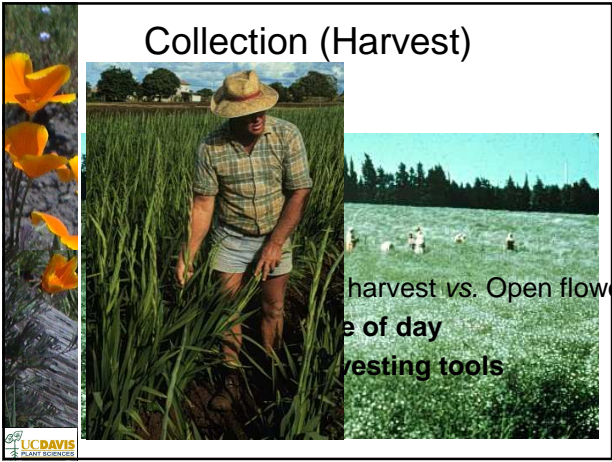
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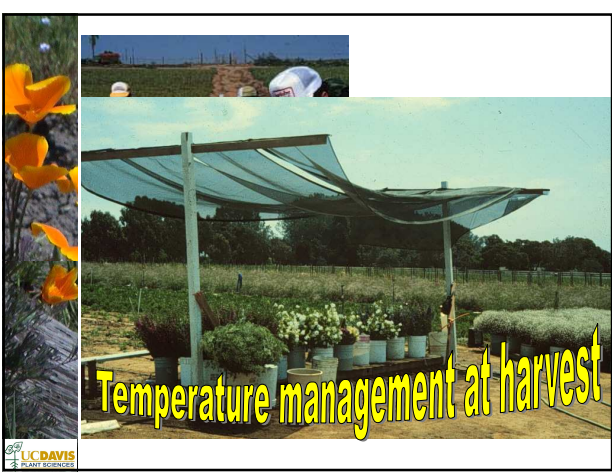
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## Grading

- Quality parameters
  - maturity
  - flower number
  - stem length
    - proper size
  - stem straightness
  - shape
  - uniformity
  - weight?

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## Bunching and tying

- 5's, 10's, 20's, 75's
- Uniformity
  - Maturity
  - Size
- Tied at top and base
  - String, wire, elastic bands



## Sleeving

- Sleeves protect
- Separate product
- Paper or plastic
- Mechanical aids



## Pretreatments

- STS or 1-MCP
- Sugar (20%) for spike-type flowers
- Gibberellic acid, BA, Thidiazuron
  - leaf yellowing
- Naphthyl-phthalamic acid?




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## Banding



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## Cooling

- Forced air for cut flowers



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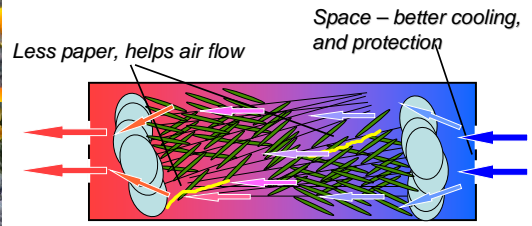
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## Good packing = good cooling

*Less paper, helps air flow*

*Space – better cooling, and protection*



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# QUESTIONS?



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