

Harvesting



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Advantages of hand harvest

- Accurate maturity and grade selection.
- Less damage to product.
- Allows multiple harvest.
- Easy to increase harvest rate - just hire more pickers.

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Maturity selection



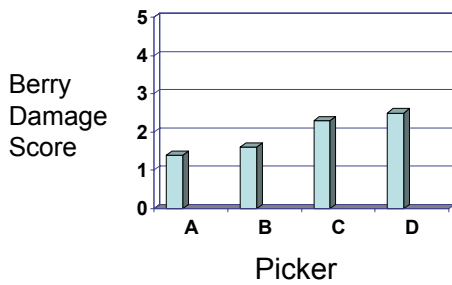
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Less product damage?



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Strawberry picker damage



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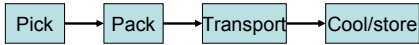
Machine harvest advantages

- Less costly, but high capital costs
- 24 hr harvest possible
- Less labor management problems
- Higher wages for workers
- Stabilizes work force size

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Field vs. shed packing

Field Pack



Shed Pack



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Strawberry - field pack



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Tomato - shed pack



9

Celery - field pack



10

Lettuce - field pack



Lettuce - materials handling



Lettuce - processing



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Lettuce - processing



Carrot Harvester



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Sweet potatoes



Onions - field curing



Onions - field packing



Treefruit



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Harvest aids - ca 1900

Detachment

Fruit handling

Worker position



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Pears

1960
worker
positioner
& fruit
handling



Pears

2005
worker
positioner
& fruit
handling



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Citrus - worker positioner



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Shake-catch harvest



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Catch frame



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Shaker
Blight



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Bushberry harvester



Canopy management



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Robotic harvest



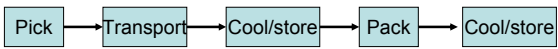
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Field vs. Shed packing

Field Pack



Shed Pack



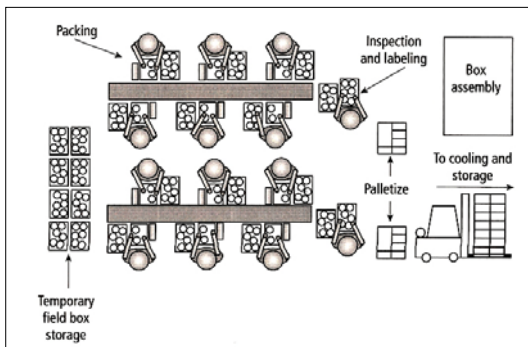
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Transport to Packing Shed



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Hand Packing

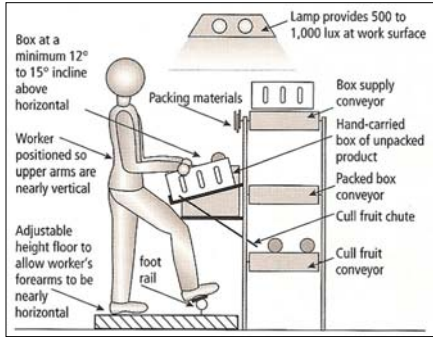


Hand pack



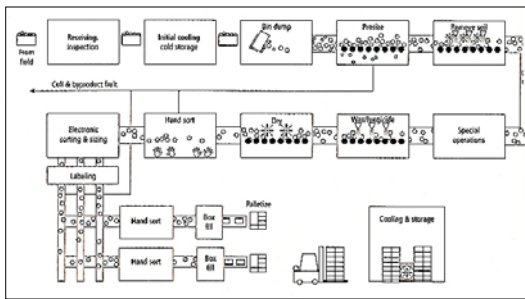
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Hand Pack Station



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Machine Grading and Packing



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