# Mechanical harvest of blueberry for fresh markets: field design considerations and pruning

Jeff Williamson

Horticultural Sciences Department

IFAS, University of Florida



# Florida's blueberry crop



## Field design considerations

- Minimum of 9 -10 ft. between-row spacing.
- Need a minimum of 30' clearance at end of rows for equipment turn around.
- In large fields, periodic row breaks (at 400 ft) suggested for unloading harvester, etc.
- In-row spacing minimum of 3 feet between plants.
  - Exact spacing will depend on cultivar and site.



#### Korvan harvester





### Korvan harvester





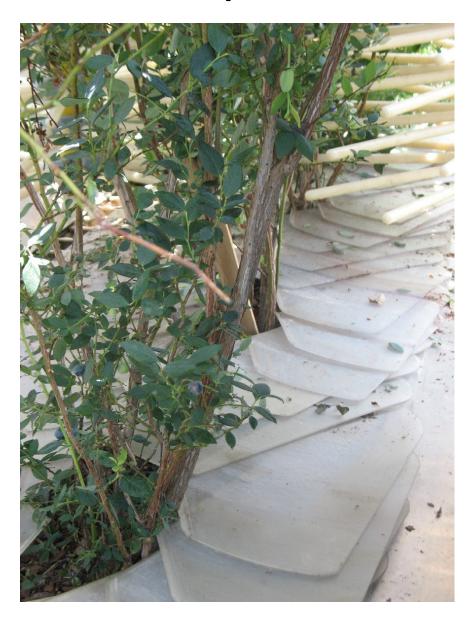
#### Front of BEI harvester





**UF** 

# Catch plates



## Bed Configuration

- Raised beds bring the catcher plates closer to the base of the crown.
- Bed height varies.
- Beds 12 to 18 inches wide at the top allow catcher plates to be lower on the plant.
- Wider beds should taper-off at edges.
- Remove suckers and low-hanging shoots from lowest 14" of plant.
- Keep crowns narrow



# Beds should taper-off at the shoulders





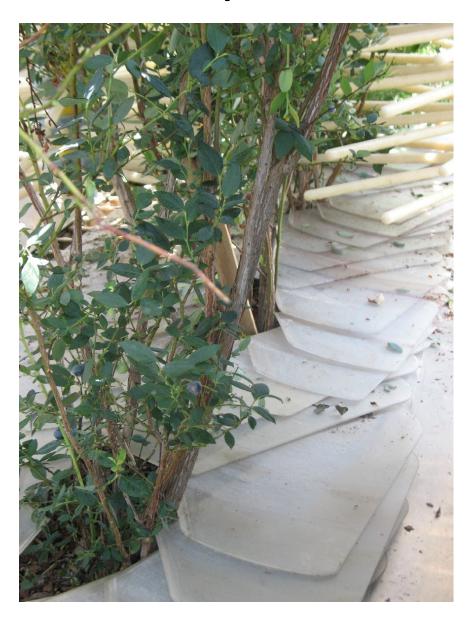








# Catch plates



# Catch plates



# Wide crowns result in excess ground drops





# Prune to remove low-hanging shoots and narrow plant crowns



#### 'Meadowlark'





# Highbush blueberry, before (left) and after pruning to a narrow base







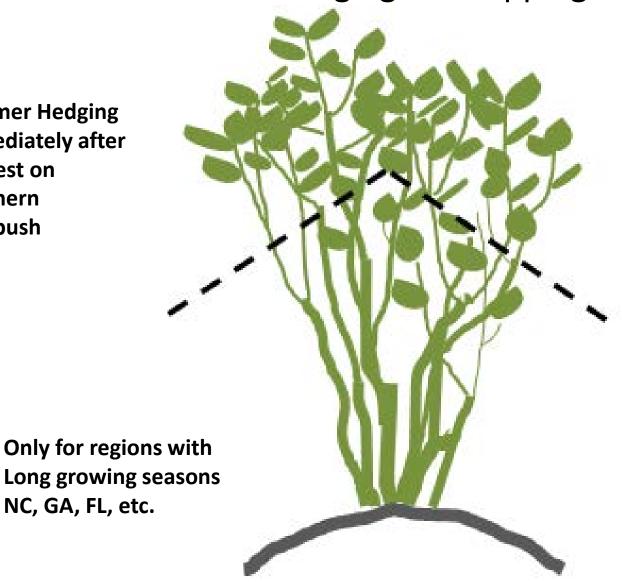






#### Summer hedging and topping

**Summer Hedging Immediately after Harvest on** Southern Highbush

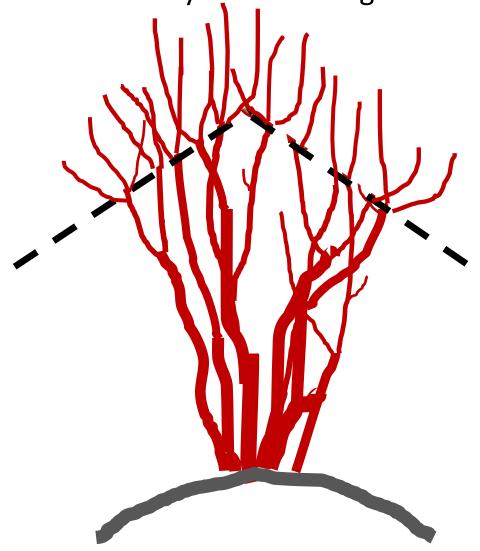


**36-48** inches "Housetop" angled cut

Long growing seasons NC, GA, FL, etc.

Courtesy of Bill Cline, N.C. State University

Regrowth above the mow cut has time to produce new flower buds by the following winter

















# Properly designed beds and pruning to a narrow crown will reduce ground drops







## Summary

- Planning for mechanical harvest for fresh markets should begin at planting establishment.
- Bed height, width and shape
- Plant and row spacing
- Training and pruning
- Cultivar selection



