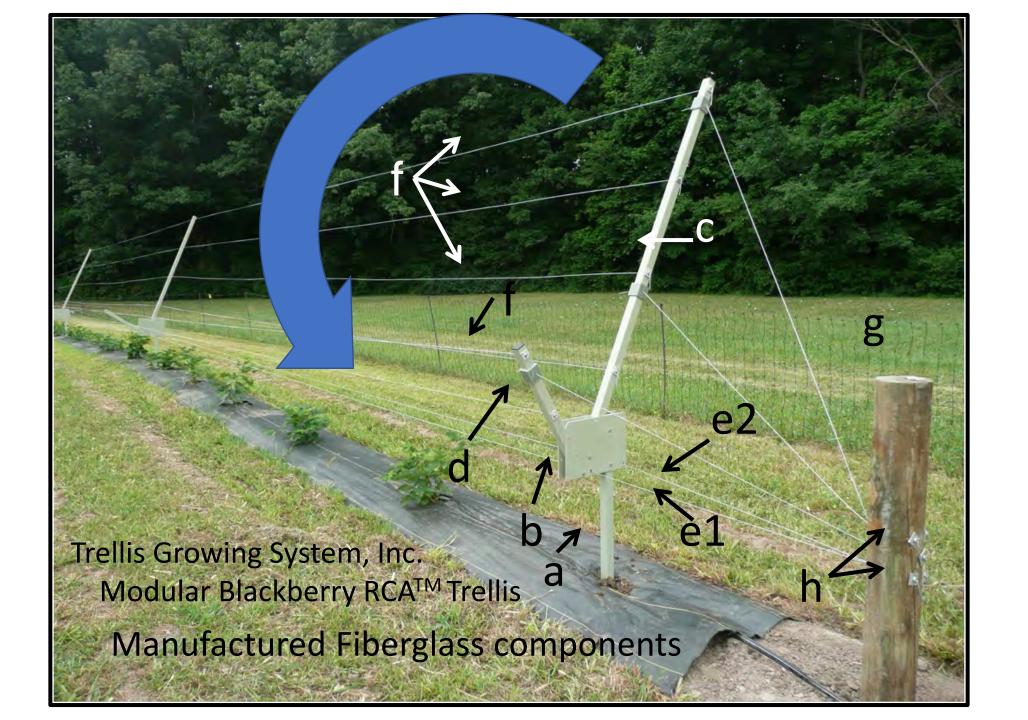




Blackberry trellis and training systems

- 1. Winter protecting floricane-fruiting blackberries in northern states
- 2. Alternative primocane training technique for 'Prime-Ark Traveler' and 'Prime-Ark 45' primocane fruiting blackberry

Fumiomi Takeda, Research Horticulturist USDA-Agricultural Research Service Appalachian Fruit Research Station Kearneysville, WV 25430

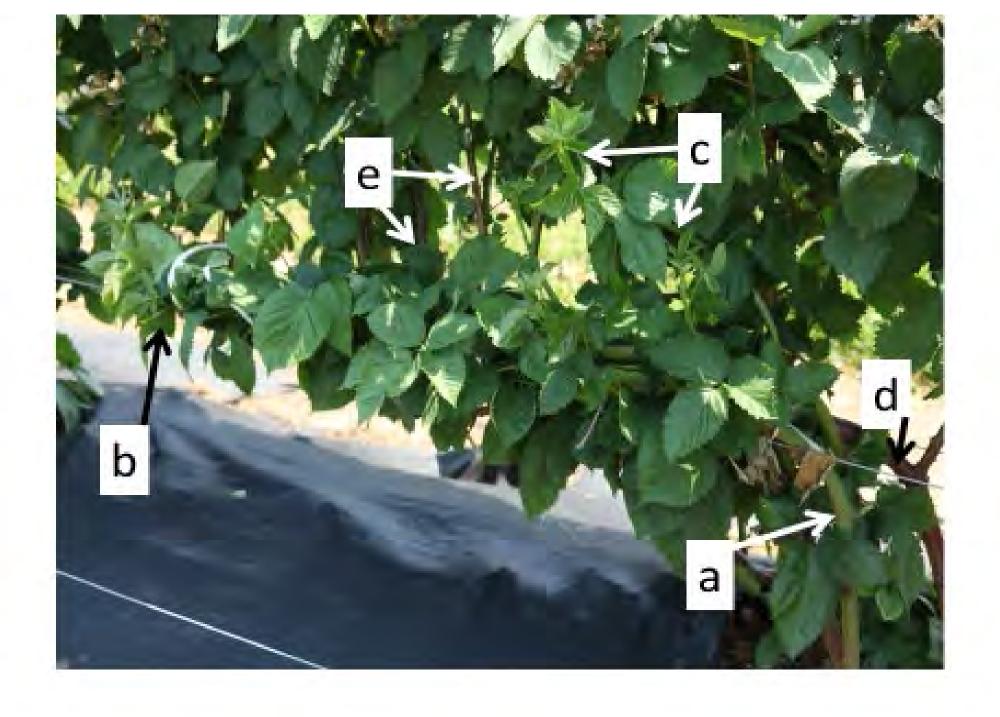


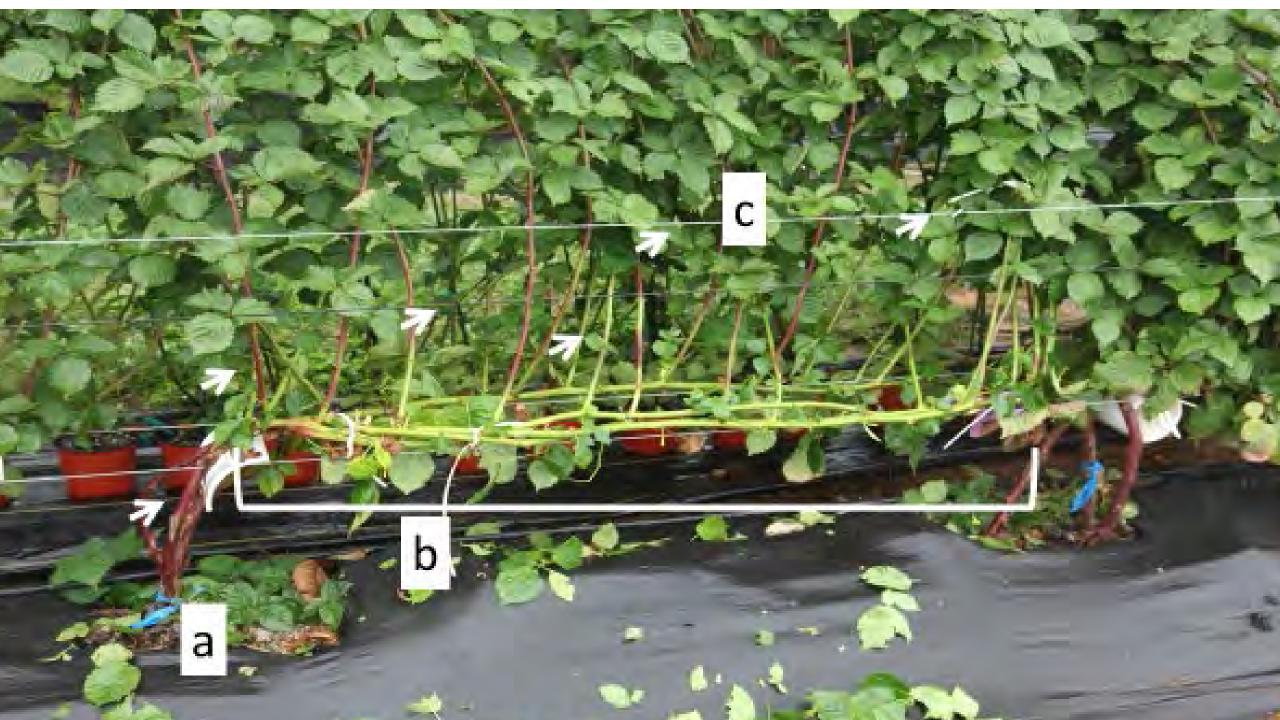
Traditional floricane fruiting cultivars:

- Two-year life cycle
- Primocanes from perennial root system in year 1.
- Canes overwinter
- Flower and fruit on wood (floricanes) following season





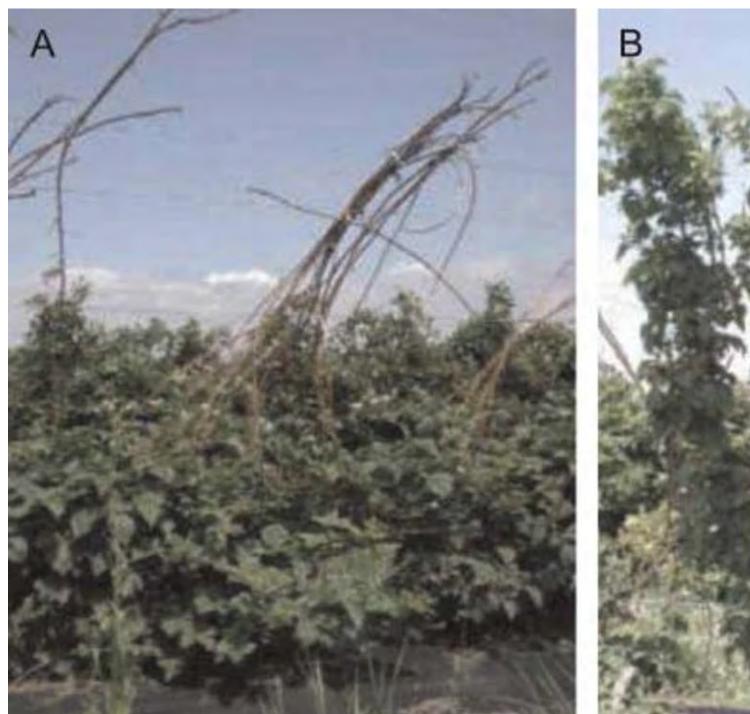








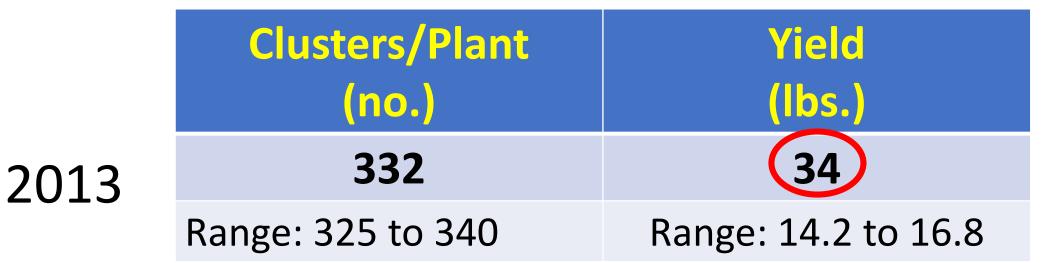








Triple Crown Yield



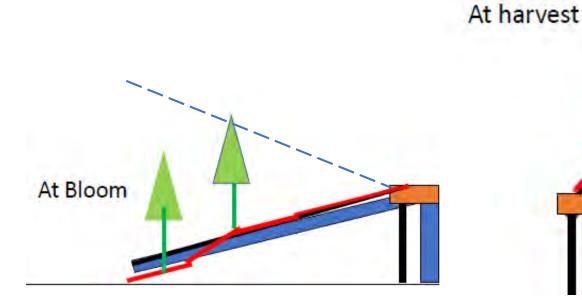
2014

309	30
Range: 219 to 398	Range: 27 to 33

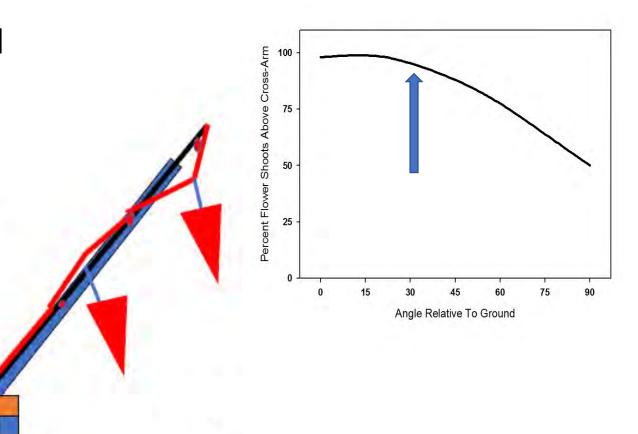


Promote all flower inflorescences to grow upward.

After rotating the cross-arms up and over, flower and later fruit clusters are now on one side of the plant.



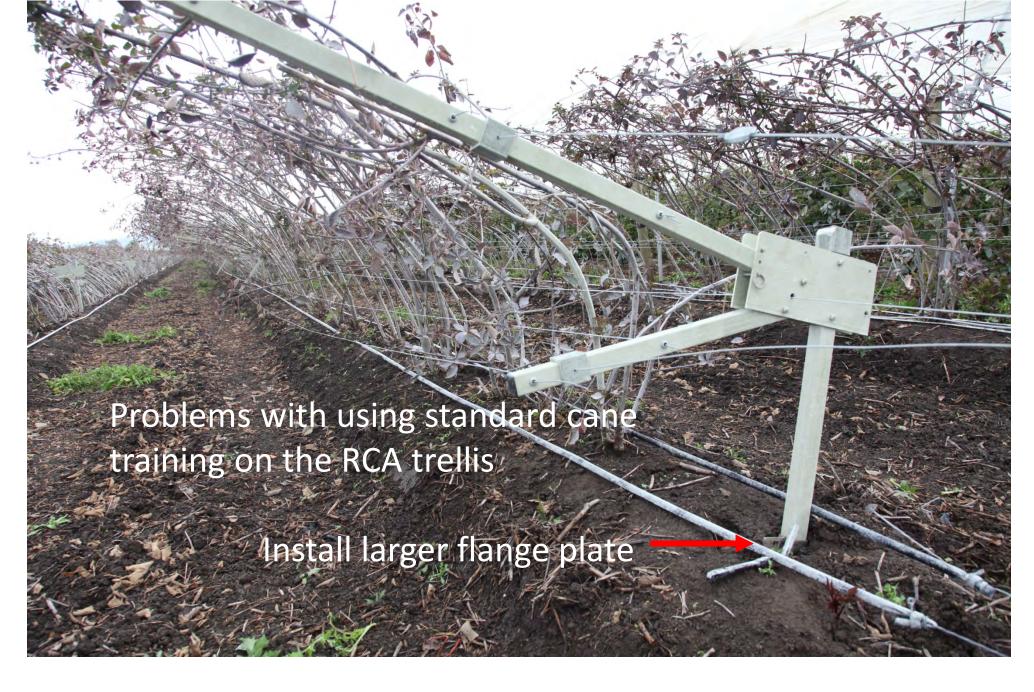
Importance of having lateral canes oriented horizontally at bloom





Recommended additional inputs to RCA trellis:

Tie-back wire



Primocane-fruiting Blackberry

Generally trained to grow straight up

 Hedged in early summer to promote branch canes



Alternative Method: Would modification of primocane training system developed for the RCA trellis work for PF blackberry?



'Triple Crown'



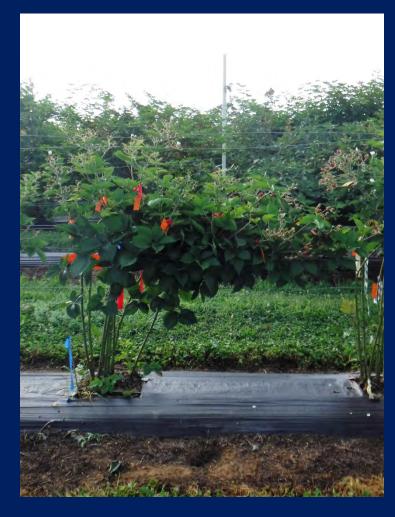
What happens when upright primocanes are bent and trained to grow horizontally?



Would defoliation help?



Primocane bending training method and leaf removal show potential!







Flower shoot development is increased by bending primocanes of PF raspberry plants.

Outcome of alternative primocane training system:

- Plant density is 50% of standard system
- Canopy is less dense
- Fruit at similar and manageable picking height
- Ease of picking
- More fruit per primocane
- Change in initial harvest and peak harvest dates and harvest duration

Additional research:

No complete primocane management system Collecting data on summer/fall and spring/summer primocane initiation Data on labor Conduct economic analysis Cost for trellis component will be higher

Questions?

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