Blackberry Trellis Design and Implementation

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Blackberry Trellis Design and Implementation

- Blackberry types
- Functions of trellis system
- Types of trellises
  - Two wire trellis
  - Supported hedgerow trellis
  - Shift trellis
Blackberry Types

- Erect blackberries
  - Thornless cultivars
    - ‘Natchez’
    - ‘Osage’
    - ‘Ouachita’
    - ‘Apache’
    - ‘Navaho’
  - Thorny cultivars
    - ‘Kiowa’
    - ‘Shawnee’
    - ‘Chickasaw’
Blackberry Types

• Erect blackberries
  – Primocane (everbearing) cultivars
    • Thorny
      – ‘Prime-Ark 45’
      – ‘PrimeJim’
      – ‘PrimeJan’
    • Thornless
      – ‘Prime-Ark Freedom’
      – ‘Prime-Ark Traveler’
Blackberry Types

- Semi-erect blackberries
  - Thornless cultivars
    - ‘Chester’
    - ‘Triple Crown’
    - ‘Loch Ness’
    - ‘Black Satin’
    - ‘Thornfree’
Blackberry Types

- Trailing blackberries
  - Thornless cultivars
    - ‘Black Diamond’
    - ‘Thornless Evergreen’
    - ‘Tayberry’
    - ‘Waldo’
  - Thorny cultivars
    - ‘Marion’
    - ‘Obsidian’
    - ‘Logan’
    - ‘Silvan’
Functions of a Trellis System

- Control plant size, height, cane spread, and productivity
- Facilitate cultural operations
- Stimulate lateral cane growth
- Thin out weak canes
- Alter fruiting time
- Improve insect and disease control
- Increase harvest efficiency
- Make picking more enjoyable
Types of Trellises

- Two wire trellis
- Supported hedgerow trellis
- Shift trellis
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Two Wire Trellis

• Advantages
  – Easy to build and maintain.
  – Economical.

• Disadvantages
  – Lower yield.
  – Crowded canopy, which will increase disease pressure
  – harvest more difficult.
Types of Trellises

- Supported hedgerow trellis
Supported Hedgerow Trellis

• Advantages
  – This trellis allows greater light penetration into the canopy and as a result, higher yields than a single post.
  – Air circulation is greater, so disease pressure is decreased.
  – If fence posts are used, horizontal wires can be moved up or down to accommodate a cultivar’s vigor.

• Disadvantages
  – Higher cost than a simple 1 or 2 wire trellis.
Supported Hedgerow Trellis

"V" Trellis

4 Wire Supported Hedgerow Trellis
Types of Trellises

- Shift Trellis
Shift Trellis

• Advantages
  – Easier harvest, all fruit is on one side of the canopy.
  – Less sunscald.
  – Winter protection.

• Disadvantages
  – Expensive.
  – Harder to learn how to train and prune.
Shift Trellis

- Components
Shift Trellis

Winter Position
Shift Trellis

Budbreak - Flowering Position
Shift Trellis

Fruiting Position
Any Questions?