

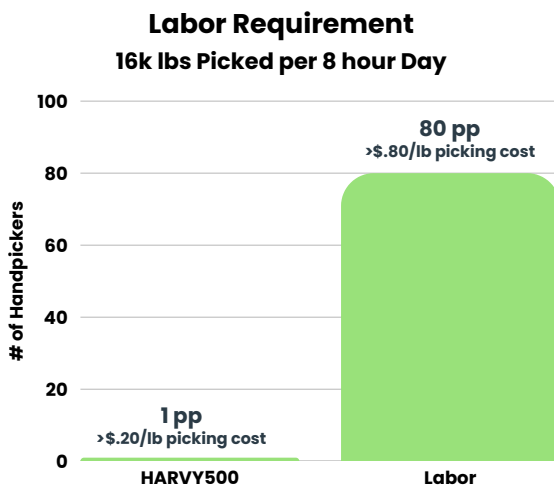
Maximizing Harvest Efficiency And Fruit Quality

Field Readiness Guide

*Setup Procedures and
Key Success Criteria*

LABOR INDEPENDENCE

The HARVY500 offers an economical solution to labor shortages and increasing labor costs.



HARVEST EFFICIENCY

Compared to traditional handpicking, the HARVY500 offers significant advantages in harvest efficiency and labor effectiveness.

Feature	HARVY500	Manual Labor
Speed	High/Continuous	Slow/Inconsistent
Ground Loss	3% - 7%* Patented Brushes & Soft-Catch Sheet	3% - 7% Depends on Crew Effectiveness
Physical Strain	Low	High
Quality	High Consistent	High Inconsistent

*Depends on pruning and bush characteristics.

Field Readiness Guide

BUSH CONDITION GUIDELINES

- Crown Width (Side-to-Side): <14 in (36 cm).
- Bush Width (Side-to-Side): <6 ft (2 m)
- Bush Height: <84 in (213 cm)
- Mound Width (Side-to-Side): <40 in (102 cm)
- Pruning (lower branches): <12 in (31 cm)

Blueberry Varietal Criteria

When evaluating varieties for mechanical harvesting, commercial growers typically look for the following:

Narrow Crown

A tight base allows the harvester's "catch plates" to seal closer to the plant, reducing ground loss.

Fruit Firmness

Essential for preventing bruising during the drop from the bush to the conveyor. Firmness >180–200 g/mm

Easy Detachment

The "pull force" required to drop a ripe berry should be low, while green berries should remain attached. Loose berry clusters

Upright Crown Architecture/Habit

Prevents canes from drooping or breaking when the harvester passes over the row.

Ripening Window

Uniform, concentrated timing

Dry Pick Scar

Low juice splash

Northern Highbush Varieties

Southern Highbush Varieties

FIELD CONDITION GUIDELINES

Topography & Soil Stability

- Slope (Side-to-Side): 4 degrees (8%)
- Incline: 6 degrees (10%)
- Surface Level: Little-No deep ruts, potholes-depth <6 in (15 cm)
- Soil Compaction: Firm
- Soil Drainage: No "soft spots" (sandy, wet) near irrigation headers.

Row & Trellis Specifications

- Row Spacing (Center-to-Center): Minimum 9 ft (2.7 m)
- Row Length (End-to-End): Preferred 600 ft (183 m)
- Headlands (Turn Clearance): Minimum preferred – 22 ft (6.5 m)
- Trellis/Drip Line Height: Preferred – 2 ft (.6 m) from ground
- Center Mound Height Minimum – 10 –24 in (25–61 cm)

Digital & Connectivity Infrastructure

Local WiFi & Cellular Signal Strength

Reliable network accessibility for high-speed harvesting data transfer. Consistent minimum of 3 bars of cellular data (LTE/4G) across the harvest zone.

GPS Accuracy & Access

Clear line-of-sight in the sky to support high-precision GPS access for autonomous steering.

Logistics

Headland Load/Unload Zones

Level, wide headlands facilitate ease of tray/lug exchange.