Hop Harvesters
What’s Out There?

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Morrisville, NY
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UVM Extension Ag Engineering

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Mechanized Harvesting

- Economics
  - Capital cost
  - Labor savings

- Quality
  - Harvest timing and duration

- Logistics
  - “Feeding the machine”
  - Will need more drying capacity

- Net Yield
Harvester Characteristics

- Cost
  - material, labor, assembly, retrofit, recurring
- Capacity (bines/hr)
- Crew
- Power source
- Portable vs. Stationary
- Effectiveness
Crafty Hop Plucker (CO)
The Crafty Hop Plucker

- $5,000
- 30-60 bines per hour
- 1 person crew
- Electric power
- Stripping only

The Crafty Hop Plucker
Larry Leinhart
Fort Collins, Colorado
970-219-3929
Bine Implement 3060

- $14,000
- 20-30 bines per hour
- 1 person to operate
- Electric power
- Strips and sorts

www.bineimplement.com
sales@bineimplement.com
Steenland Mobile Structures - Hop Harvester 1000 (Roxbury, NY)
Steenland Mobile Structures

- $12,000 (est.)
- 120 bines/hour (est.)
- 1 person to operate
- Portable
- Electric power
- Strips and sorts
- Rubber fingers
  - Anticipate less cone damage
LaGasse Hop Harvester (Lyons, NY)
LaGasse Hop Harvester

- Price is TBD
- 150-200 bines/hour (est)
- 2 person crew
- Will strip and sort
- Gasoline powered hydraulics

Dan LaGasse & Jason McCormik
LaGasse Works, Inc.
315-946-9202
UVM Mobile Hop Harvester
UVM Mobile Hop Harvester
UVM Mobile Hop Harvester

- Open source design
- $9,500 - 30,000
- 60 - 170 bines per hour
- 2 – 4 person crew
- Hydraulic power (tractor PTO)
- Strips and sorts
- Auto feed

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Google “UVM Hops Wiki”
Wolf Harvesters

- $30,000 – $45,000
- WHE140: 120-140 bines/hr
- WHE170: up to 170 bines/hr
- 1-8 person crews
- 3 Phase electrical power
- Strips and sorts (and can chop bines)
- Auto feed

Tom Frazer
Dauenhauer Mfg, Co.
707-546-0577
tfrazer@dmfg.com
www.dmfg.com
<table>
<thead>
<tr>
<th>Option</th>
<th>Initial Cost</th>
<th>Crew</th>
<th>Bine/Hour</th>
</tr>
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<tbody>
<tr>
<td>Hand Picking</td>
<td>Zero</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Crafty Hop Plucker</td>
<td>$5,000</td>
<td>1</td>
<td>30-60</td>
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<tr>
<td>Bine 3060 (Addison Hop Farm, Addison, VT)</td>
<td>$14,250</td>
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<td>20-30</td>
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<tr>
<td>Steenland Hop Harvester 1000</td>
<td>$12,000</td>
<td>1</td>
<td>120</td>
</tr>
<tr>
<td>LaGasse Mobile Harvester</td>
<td>TBD</td>
<td>2</td>
<td>150-200</td>
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<td></td>
<td></td>
<td></td>
<td>(est.)</td>
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<tr>
<td>UVM Mobile (UVM and others replicating</td>
<td>$9,500-$30,000</td>
<td>4</td>
<td>60-120</td>
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<td>Dean Heltemes, Todd Wycoff, Pat Comerford</td>
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<tr>
<td>Wolf WHE140 (NEHA / Foothill Hops)</td>
<td>$30,000 + labor</td>
<td>2-3</td>
<td>140</td>
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<tr>
<td>Wolf WHE170 (Four Star Farm Northfield, MA)</td>
<td>$30,000 + 2 weeks labor</td>
<td>8</td>
<td>170</td>
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<tr>
<td>Wolf WHE170 (Big Head Hops, Ontario)</td>
<td>$43,500 complete</td>
<td>1+</td>
<td>170</td>
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</table>
Videos

- [Crafty Hop Plucker](#)
- [Bine Implement 3060](#)
- [UVM Mobile Hops Harvester](#)
- [Lunatic Fringe (UVM type)](#)
- [Wolf 140 (NEHA) - bines](#)
- [Wolf 140 (NEHA) – cones](#)
- [Wolf – side by side](#)