Does $$ Grow on Trees?
Woodland Pawpaw
Production

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Pawpaw Tree

Pawpaw fruit

Patch of pawpaw trees
Wild vs. Cultivar

Wild cluster of pawpaws

Sunflower cluster of pawpaws
Pawpaw plot with down tree
Wild Pawpaw Problems

- Low yields
- Variable quality
- Hard to harvest
Potential of Pawpaw

Jackie O’s Beer and Integration Arce's Pawpaw Pulp

http://jackieos.com/brews/paw-paw-wheat/

https://integrationacres.com/products/frozen-pawpaw-pulp-pawpaw-pleasures-p-44.html?osCsid=ee72c080dec80218ed0f9897a1e0c714
Research Objective

- Monitor 5 field sites
- Tease out similarities
- Implement plans for increasing stand production
Wild Pawpaw Patches
Data Collection

Pawpaw Fruit with disease
Phylostica - Common

Larvae of the Pawpaw Peduncle Borer – Uncommon
Probability of Pawpaw Producing Fruit

Probability of producing a fruit vs. Diameter of Tree (cm)
## Probability of Pawpaw Producing Fruit

<table>
<thead>
<tr>
<th>Diameter Tree (in)</th>
<th>OPEN</th>
<th>50-70%</th>
<th>60-80%</th>
<th>90-95%</th>
<th>85-99%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CLOSED</td>
<td>1-50%</td>
<td>1-60%</td>
<td>50-70%</td>
<td>75-85%</td>
</tr>
<tr>
<td>1”</td>
<td>2”</td>
<td>3”</td>
<td>4”</td>
<td></td>
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</table>

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Controls on Pawpaw

- More likely to have fruit on smaller trees if in the open
- Light availability
- Moisture and nutrient competition
Management

Before management

After management
Management

- Grafting
- Hand pollination
- Thinning clusters
Wild Vs. Cultivars

Wild

<table>
<thead>
<tr>
<th>Mass (g)</th>
<th>Length x width (cm)</th>
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</thead>
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Cultivars

<table>
<thead>
<tr>
<th>Mass (g)</th>
<th>Length x width (cm)</th>
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</table>
Average $3/lb
Profit open vs. closed canopy

- Piketon 2017- 327 fruit- $927
- Piketon 2018- 303 fruit- $900
- Integration Acres 2017- 1634 fruit- $4,902
- Integration Acres 2018- 1062 fruit- $3,186
0.38 Acres = 5 plots, 2 hrs/plot harvest, $11/hr --- $110 labor

100 miles transport, @ .40/c, $40 transport

$100 boxes

$1000 - 110 - 40 - 100 = 750/0.38 = 1,973/acre

based on piketon closed
Summary

• Management Strategies
  Increases production
  Where to plant
  Control invasive
  Know where you are going to send fruit

• $$$$$
OSU Orchards

- Piketon
- Columbus
- 30 cultivars
Cultivars for OSU plantings

- KSU Atwood
- Kentucky Champion
- Potomac
- Wabash
- Summer Delight
- Allegheny

- Mango
- Rappanhannock
- Shenandoah
- Sunflower
- Susquehanna
- KSU Benson
Statewide Orchard

- Comparing cultivars across state
Pawpaw Events

• May 18th - North America Pawpaw Growers Annual Conference - Wilmington Ohio
• May 23rd – Piketon Grafting Workshop
• May 25th – Columbus Grafting Workshop
Thank you!

- Gary Gottenbush
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- Matt Dominish
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- Marc Stadler
- Ted Beedy
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