Watermelon and Cantaloupe Variety Performance in Southwest Indiana

Wenjing Guan
Horticultural Specialist
Feb. 2018
# Triploid Watermelons

<table>
<thead>
<tr>
<th>Dates</th>
<th>Standard size watermelon trial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seedling Dates</td>
<td>In-row spacing 4’</td>
</tr>
<tr>
<td>Transplanting Dates</td>
<td>Between row spacing 8’</td>
</tr>
<tr>
<td>Harvest</td>
<td>Pollenizer SP 6</td>
</tr>
<tr>
<td></td>
<td>Pollenizer ratio 1:2</td>
</tr>
</tbody>
</table>

- Seedling Dates: April 17
- Transplanting Dates: May 17
- Harvest: Jul 27-Aug 17

* Pollenizer

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* * * * * * * * * * * * * * * *
Top Yield Varieties

- **Red Amber**
- **Red Opal**

High Brix Varieties

- **Sugar Fresh**
- **Cut Above**
- **Fascination**
- **7187**
- **Wolverine**
- **Unbridled**
- **Premont**
- **Embassy**
- **9601**
- **Exclamation**
- **Bottle Rocket**
- **Kingman**
- **Joy Ride**
- **Warrior**
- **Road Trip**
- **KB10770**
- **16p-11-10770-2**
Red Amber

- Company: Enza Zaden
- Yield: 64,792 lb/A (1/37)
- Earliness: 18,090 lb/A (2/37)
- Size:

<table>
<thead>
<tr>
<th>Variety</th>
<th>&lt; 9 lb (60 count)</th>
<th>9-13.5 lb (45 count)</th>
<th>13.6-17.5 lb (36 count)</th>
<th>17.6-21.4 lb (30 count)</th>
<th>&gt; 21.5 lb (30 count)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16p-11-10770-2</td>
<td>1.89</td>
<td>22.64</td>
<td>41.51</td>
<td>22.64</td>
<td>11.32</td>
</tr>
</tbody>
</table>

- Brix: 10.3 (32/37)
- Firmness: 4.28 (8/37)
Road Trip

• Company: Seminis
• Yield: 60,914 lb/A (3/37)
• Earliness: 10,429 lb/A (22/37)
• Size:

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<th>13.6-17.5 lb (45 count)</th>
<th>17.6-21.4 lb (36 count)</th>
<th>&gt; 21.5 lb (30 count)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road Trip</td>
<td>0</td>
<td>39.45</td>
<td>39.45</td>
<td>15.60</td>
<td>5.5</td>
</tr>
</tbody>
</table>

• Brix: 10.44 (24/37)
• Firmness: 3.40 (31/37)

2016 Varity trial: 34,418 lb/A (37/46), high sugar content
9651

- Company: Bayer
- Rind Pattern: Sugar baby, round to oval
- Yield:
  - 9651: 59,462 lb/A (4/37)
  - 9601: 55,969 lb/A (11/37)
- Size

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<th>&lt; 9 lb</th>
<th>9-13.5 lb</th>
<th>13.6-17.5 lb</th>
<th>17.6-21.4 lb</th>
<th>&gt; 21.5 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>9651</td>
<td>1</td>
<td>24.00</td>
<td>47.00</td>
<td>20.00</td>
<td>8.00</td>
</tr>
<tr>
<td>9601</td>
<td>1</td>
<td>36.36</td>
<td>37.37</td>
<td>22.22</td>
<td>3.03</td>
</tr>
</tbody>
</table>

- Brix:
  - 9651: 10.82 (10/37)
  - 9601: 10.60 (20/37)

9601

Wayfarer

- Darker than 9651 and 9601
- Yield:
  - 2017: 45,277 lb/A (32/37)
  - 2016: 49,614 lb/A (4/46)
- Size: smaller, 52.14% < 13.5 lb
Warrior
- Company: Bayer
- Yield:
  - 2017: 59,290 lb/A \((5/37)\)
  - 2016: 47,291 lb/A \((12/46)\)
- Earliness:
  - 2017: 14,509 lb/A \((6/37)\)
  - 2016: 7,243 lb/A \((4/46)\)
- Uniform fruit size 61.22% in 45 count

Joy Ride
- Company: Seminis
- Yield:
  - 2017: 58,290 lb/A \((6/37)\)
  - 2016: 36,217 lb/A \((34/46)\)

Kingman
- Company: Sakata
- Yield:
  - 2017: 57,155 lb/A \((7/37)\)
  - 2016: 43,322 lb/A \((19/46)\)
- Uniform fruit size 61.22% in 45 count
Bottle Rocket

- Company: Seminis
- Yield:
  2017: 56,776 lb/A (8/37)

Embassy

- Company: Bayer
- Yield:
  2017: 56,591 lb/A (9/37)
  2016: 47,347 lb/A (11/46)

Exclamation

- Company: Syngenta
- Yield:
  2017: 55,804 lb/A (10/37)
  2016: 47,852 lb/A (8/46)
- Size: 35.16% in 36 and 30 count
Early Maturing Varieties (>14,000 lb/A in first harvest)

- **Excursion**: Moderate yield in 2017, high yield in 2016. 50% fruit 36 count or larger
- **Red Amber**: High yield
- **Red Opal**: Moderate yield, 47% 60 count
- **Sweet Dawn**: Low yield, thin skin
- **SV3105WA**: Moderate yield
- **Warrior**: High yield
- **Unbridled**: Moderate high yield, high Brix
- **Charismatic**: Moderate yield
**Quality**

**Poseidon**
- Seedway
  - Highest Brix in 2017 (11.39) and 2016 (12.91); moderate low yield; flesh firmness low; majority 60 count (9-13.5 lb)

**Premont**
- Clifton
## Mini-Watermelon

<table>
<thead>
<tr>
<th>Dates</th>
<th>Standard size watermelon trial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seedling Dates</td>
<td>April 20</td>
</tr>
<tr>
<td>Transplanting Dates</td>
<td>May 16</td>
</tr>
<tr>
<td>Harvest</td>
<td>Jul 24-Aug 14</td>
</tr>
<tr>
<td>In-row spacing</td>
<td>2’</td>
</tr>
<tr>
<td>Between row spacing</td>
<td>6’</td>
</tr>
<tr>
<td>Pollenizer</td>
<td>Accomplice</td>
</tr>
<tr>
<td>Pollenizer ratio</td>
<td>1:3</td>
</tr>
</tbody>
</table>
### 2017 Mini-watermelon Variety Trial

<table>
<thead>
<tr>
<th>Personal-size triploid watermelon Variety</th>
<th>Weight (lb) per acre</th>
<th>Number of fruit per acre</th>
<th>Average fruit weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belmont</td>
<td>52,967 c</td>
<td>5,344 b</td>
<td>9.91 a</td>
</tr>
<tr>
<td>Extazy</td>
<td>66,167 a</td>
<td>7,865 ab</td>
<td>8.41 b</td>
</tr>
<tr>
<td>Ladybelle</td>
<td>51,745 d</td>
<td>7,613 ab</td>
<td>6.84 c</td>
</tr>
<tr>
<td>Mini Bee</td>
<td>58,077 b</td>
<td>8,268 a</td>
<td>7.03 c</td>
</tr>
</tbody>
</table>
### 2016 Mini-watermelon Variety Trial

**Personal-size triploid watermelon Variety** | **Weight (lb) per acre** | **Number of fruit per acre** | **Average fruit weight (lb)**
--- | --- | --- | ---
Extazy | 70,334 a | 8,224 a | 8.5 a
Krimson Kiss | 68,914 b | 7,430 a | 9.38 a
Ocelot | 32,595 d | 4,594 b | 7.16 b
Serval | 45,368 c | 7,033 a | 6.44 b
## Cantaloupe

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<tr>
<td>Seedling Dates</td>
<td>Apr 18</td>
</tr>
<tr>
<td>Transplanting Dates</td>
<td>May 16</td>
</tr>
<tr>
<td>Harvest</td>
<td>Jul 11 --- Aug 4</td>
</tr>
<tr>
<td>In-row spacing</td>
<td>2.5’</td>
</tr>
<tr>
<td>Between row spacing</td>
<td>6’</td>
</tr>
</tbody>
</table>
2016 cantaloupe variety trial in IN

- Astound
- Accolade

2017 cantaloupe variety trial in IN

- Astound
- Accolade
- Aphrodite
- Athena
- MS4344
- Madelon

Legend:
- 1st week
- 2nd weed
- 3rd week
- 4th week
## 2017 Cantaloupe Variety Trial in Southwest IN

<table>
<thead>
<tr>
<th>Variety</th>
<th>Average fruit weight</th>
<th>Flesh firmness</th>
<th>Brix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astound</td>
<td>5.29 lb</td>
<td>4.09</td>
<td>9.32</td>
</tr>
<tr>
<td>Accolade</td>
<td>5.39 lb</td>
<td>4.11</td>
<td>9.50</td>
</tr>
<tr>
<td>Aphrodite</td>
<td>6.72 lb</td>
<td>3.26</td>
<td>10.56</td>
</tr>
<tr>
<td>Athena</td>
<td>4.96 lb</td>
<td>2.48</td>
<td>9.62</td>
</tr>
</tbody>
</table>
Wenjing Guan
Horticultural Specialist
guan40@purdue.edu
812-886-0198 (Office)
352-870-4696 (Cell)

Southwest Purdue Ag Center