Pumpkin Variety Trial 2008
Pinney-Purdue Ag Center
Wanatah, Indiana

Complete report of trial published in Midwest Vegetable Trial Report for 2008, Bull. 18404
Available at www.hort.purdue.edu/fruitveg/reports.shtml

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NW Commercial Horticulture Program
Purdue University, Westville, IN 46391
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Seeded June 12, Harvested Sept. 2-3 and Oct. 3

1383 plants per acre for large pumpkins

Rows 7 ft. 4 in. apart, 13.7 ft. between cultivars, plants 3 ft. apart for large pumpkins

Standard insect and weed management

Overhead irrigation as needed

Two disease management treatments:

Treated for Powdery Mildew (PM)

Not treated for PM

15 Varieties:

12 jack-o-lantern

2 pie, 1 mini
## Fungicide Treatments

<table>
<thead>
<tr>
<th>Date</th>
<th>PM TRT: YES</th>
<th>PM TRT: NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 11</td>
<td>Previcur Flex</td>
<td>Previcur Flex</td>
</tr>
<tr>
<td>July 18</td>
<td>Ranman</td>
<td>Ranman</td>
</tr>
<tr>
<td></td>
<td>Topsisin, Bravo Ultra</td>
<td></td>
</tr>
<tr>
<td>Aug. 1</td>
<td>Ranman</td>
<td>Ranman</td>
</tr>
<tr>
<td></td>
<td>Nova 40W, Bravo Ultra</td>
<td></td>
</tr>
<tr>
<td>Aug. 15</td>
<td>Previcur Flex</td>
<td>Previcur Flex</td>
</tr>
<tr>
<td></td>
<td>Topsisin, Bravo Ultra</td>
<td></td>
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<tr>
<td>Aug. 22</td>
<td>Ranman</td>
<td>Ranman</td>
</tr>
<tr>
<td></td>
<td>Nova 40W, Bravo Ultra</td>
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</tr>
<tr>
<td>Aug. 29</td>
<td>Previcur Flex</td>
<td>Previcur Flex</td>
</tr>
</tbody>
</table>
Data Collected

Powdery mildew assessment: Aug. 30
Percent leaf area infected (top and bottom of old, middle-aged, and young leaves)
Overall severity
Vine vigor assessment: Aug. 30
Percent green foliage: Oct. 11
Data Collected, cont.

Orange marketable weight and number per plot
(orange = rind surface at least 1/2 orange)
Total orange and green marketable weight and number per plot
Cull weight and number
Peduncle health: Sept. 17 (for Sept. harvest) and Oct. 6 (for Oct. harvest)
Notes on pumpkin shape, color, sutures, peduncle size and health, fruit uniformity, overall quality:
Sept. 17

'orange'

'green'
Percent Powdery Mildew on Pumpkin Leaves  
Aug. 30, 2008, Wanatah, IN

<table>
<thead>
<tr>
<th>Variety</th>
<th>PM Treatment</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Camaro</td>
<td>1 m</td>
<td>11 g</td>
<td></td>
</tr>
<tr>
<td>HSR 4710</td>
<td>1 m</td>
<td>22 fg</td>
<td></td>
</tr>
<tr>
<td>Gladiator</td>
<td>2 lm</td>
<td>11 g</td>
<td></td>
</tr>
<tr>
<td>Warlock</td>
<td>3 klm</td>
<td>11 g</td>
<td></td>
</tr>
<tr>
<td>HSR 4721</td>
<td>4 klm</td>
<td>20 fg</td>
<td></td>
</tr>
<tr>
<td>Magic Wand</td>
<td>4 klm</td>
<td>28 ef</td>
<td></td>
</tr>
<tr>
<td>Gold Speck</td>
<td>5 jklm</td>
<td>27 f</td>
<td></td>
</tr>
<tr>
<td>HSR 4709</td>
<td>8 ijklm</td>
<td>46 de</td>
<td></td>
</tr>
</tbody>
</table>

Values followed by same letter do not differ significantly at the 5% level.
### Percent Powdery Mildew on Pumpkin Leaves

**Aug. 30, 2008, Wanatah, IN**

<table>
<thead>
<tr>
<th>Variety</th>
<th>PM Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>HSR 4709</td>
<td>8 iklm</td>
</tr>
<tr>
<td>Magic Lantern</td>
<td>10 hijk</td>
</tr>
<tr>
<td>Fall Splendor</td>
<td>11 ghijk</td>
</tr>
<tr>
<td>Prankster</td>
<td>14 fghij</td>
</tr>
<tr>
<td>Earlipak</td>
<td>15 fghi</td>
</tr>
<tr>
<td>Gold Challenger</td>
<td>24 fg</td>
</tr>
<tr>
<td>Gold Medal</td>
<td>28 ef</td>
</tr>
<tr>
<td>Solid Gold</td>
<td>28 ef</td>
</tr>
</tbody>
</table>
# Effect of Treatment for PM on Jack-o-Lantern Pumpkin Yield

Wanatah, IN, 2008

<table>
<thead>
<tr>
<th></th>
<th>PM Treatment</th>
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<tbody>
<tr>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>Org. No./A</td>
<td>2116</td>
</tr>
<tr>
<td>Org. Tons/A</td>
<td>19.4*</td>
</tr>
<tr>
<td>Ave. Org. Wt.</td>
<td>18.8</td>
</tr>
<tr>
<td>Org. Lb./Plant</td>
<td>28.3*</td>
</tr>
<tr>
<td>Org&amp;Grn No./A</td>
<td>2436</td>
</tr>
<tr>
<td>Org&amp;Grn Tons/A</td>
<td>22.0*</td>
</tr>
</tbody>
</table>

†, * PM treated and untreated means differ at 10% and 5% levels, respectively.
## Effect of Treatment for PM on Jack-o-Lantern Pumpkin Yield

Wanatah, IN, 2008

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</tr>
</thead>
<tbody>
<tr>
<td>YES</td>
<td>1388</td>
<td>12.8</td>
<td>19.4</td>
<td>728</td>
<td>6.6</td>
<td>17.9*</td>
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<tr>
<td>NO</td>
<td>1392</td>
<td>12.7</td>
<td>19.0</td>
<td>632</td>
<td>5.2</td>
<td>16.2</td>
</tr>
</tbody>
</table>

*PM treated and untreated means differ at 10% and 5% levels, respectively.*
Peduncle Rating
5=best, 1=worst
## Peduncle Rating 9/17 and 10/6, Wanatah, IN

<table>
<thead>
<tr>
<th>Variety</th>
<th>PM Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YES</td>
</tr>
<tr>
<td>Camaro</td>
<td>3.4</td>
</tr>
<tr>
<td>HSR 4710</td>
<td>3.4</td>
</tr>
<tr>
<td>Gladiator</td>
<td>4.2</td>
</tr>
<tr>
<td>Warlock</td>
<td>4.5</td>
</tr>
<tr>
<td>HSR 4721</td>
<td>4.4</td>
</tr>
<tr>
<td>Magic Wand</td>
<td>4.6</td>
</tr>
<tr>
<td>Gold Speck</td>
<td>5.0</td>
</tr>
<tr>
<td>HSR 4709</td>
<td>3.3</td>
</tr>
</tbody>
</table>
## Peduncle Rating
9/17 and 10/6, Wanatah, IN

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<thead>
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<tr>
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<td>4.2</td>
<td>3.8</td>
</tr>
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<td>Fall Splendor</td>
<td>5.0</td>
<td>4.6</td>
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<td>4.9</td>
<td>4.9</td>
</tr>
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<td>Solid Gold</td>
<td>4.5</td>
<td>4.2</td>
</tr>
</tbody>
</table>
Notes on Photos of Varieties

- Photos of plots before harvest were taken in late Aug./early Sept. near time of powdery mildew rating.
HSR 4710
Sprayed for PM
Cultivar

**HSR**
Sprayed for PM

PM Treatment

**22.6 lb**
1% PM

Ave. wt. of orange pumpkin

% powdery mildew Aug. 30

Solid purple bar in yield graphs is this variety, this treatment.

Close-up of Sept. harvest

Slides for each cultivar will follow this format.

Top photo = Sept. harvest, bottom photo = Oct. harvest.
HSR 4710
Sprayed for PM

22.6 lb
1% PM

Nov. 2008
HSR 4710
Not sprayed for PM
HSR 4710
Not sprayed for PM

23.2 lb
22% PM

Nov., 2008
Gold Medal
Sprayed for PM

Nov. 2008
E. Maynard, Purdue University
Gold Medal
Sprayed for PM

22.3 lb
28% PM

Nov. 2008
Gold Medal
Not sprayed for PM
Gold Medal
Not sprayed for PM

22.4 lb
70% PM
HSR 4709
Sprayed for PM
HSR 4709
Sprayed for PM

22.6 lb
8% PM

Nov. 2008
HSR 4709
Not sprayed for PM
HSR 4709
Not sprayed for PM

19.6 lb
46% PM

Nov. 2008
Earlipak
Sprayed for PM
Earlipak
Sprayed for PM

20.8 lb
15% PM

Nov. 2008
Earlipak
Not sprayed for PM
Earlipak
Not sprayed for PM

21.3 lb
53% PM

Nov. 2008
Solid Gold
Sprayed for PM

Nov. 2008
E. Maynard, Purdue University
Solid Gold
Sprayed for PM

20.8 lb
28% PM

Nov. 2008
Solid Gold
Not sprayed for PM

19.7 lb
88% PM

Nov. 2008

(Maxwell, Purdue University)
Camaro
Sprayed for PM

E. Maynard, Purdue University

Nov. 2008
Camaro
Sprayed for PM

21.1 lb
1% PM

Nov. 2008
Camaro
Not sprayed for PM
Camaro
Not sprayed for PM

19.3 lb
11% PM

Nov. 2008
Warlock
Sprayed for PM

18.9 lb
3% PM

Nov. 2008
Warlock
Not sprayed for PM

Nov. 2008
E. Maynard, Purdue University
Warlock
Not sprayed for PM

18.7 lb
11% PM

Nov. 2008
Magic Wand
Sprayed for PM
Magic Wand
Sprayed for PM

17.4 lb
4% PM

Nov. 2008
Magic Wand
Not sprayed for PM
Magic Wand

Not sprayed for PM

16.1 lb

28% PM

Nov. 2008
Gladiator Sprayed for PM

16.8 lb 2% PM

Nov. 2008
Gladiator
Not sprayed for PM
Gladiator
Not sprayed for PM

16.4 lb
11% PM

Nov. 2008
Gold Challenger
Sprayed for PM

Nov. 2008
E. Maynard, Purdue University
Gold Challenger
Sprayed for PM

16.1 lb
24% PM

Nov. 2008
Gold Challenger
Not sprayed for PM
15.5 lb
78% PM

Nov. 2008
Magic Lantern
Sprayed for PM

14.2 lb
10% PM

Nov. 2008
Magic Lantern
Not sprayed for PM
14.5 lb
51% PM

Nov. 2008
HSR 4721
Sprayed for PM

11.6 lb
4% PM

Nov. 2008
HSR 4721
Not sprayed for PM
HSR 4721
Not sprayed for PM

10.7 lb
20% PM

Nov. 2008
Fall Splendor
Sprayed for PM

4.7 lb
11% PM

Nov. 2008
Fall Splendor
Not sprayed for PM

Nov. 2008
E. Maynard, Purdue University
Fall Splendor
Not sprayed for PM

4.4 lb
65% PM

Nov. 2008
Prankster
Sprayed for PM

Nov. 2008
E. Maynard, Purdue University
Prankster
Sprayed for PM

3.2 lb
14% PM

Nov., 2008
Prankster
Not sprayed for PM

3.3 lb
77% PM

Nov. 2008
Gold Speck
Sprayed for PM
Gold Speck
Sprayed for PM
0.4 lb
5% PM

Nov. 2008
Gold Speck
Not sprayed for PM
Gold Speck
Not sprayed for PM
0.4 lb
27% PM

Nov. 2008
Photos of Observation Trial

One plot per variety
All treated for powdery mildew
Small World of Color Mix
Small World of Color Mix
Small World of Color Mix
Field Trip
Gargoyle
Galaxy of Stars
Cannon Ball
With thanks to:
J. Leuck, M. O’Neal, D. Eichelberger at PPAC; N.
Brad, P. Begley, J. Sheets, R. Shay, B. Rhoda, A.
Hodge, NWCH; Morgan H.S. Hort Class; Master
Gardeners; Seed Companies: Hollar Seeds, Harris
Moran, Rupp Seeds, Sakata Seeds

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