New Cultivar Options for Georgia Orchards

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New UGA cultivar release: 'Byrd'

- Parentage: 'Pawnee' x 'Desirable'
- Cross made by Dr. Darrell Sparks in 1989.
- Released in 2008.
- 46 nuts / lb
- 62% kernel

Flowering: Similar to 'Desirable' and 'Pawnee', early pollen shed and late pistil receptivity.
'Byrd'

• Advantages
  – Large nut with high % kernel
  – Very early harvest date, 2 days after 'Pawnee'.
  – No kernel spotting like 'Pawnee'
  – Good scab resistance.

• Limitations
  – Thin shell with potential for water split.
  – Will likely need fruit thinning.
  – Lack of long term trials.
New USDA cultivar release: 'Mandan'

- Parentage – 'Osage' x BW-1
- Cross made in 1985
- Released for all growing regions
- Harvest 1 week before 'Pawnee'
Flowering: Similar to 'Desirable' and 'Pawnee', early pollen shed and late pistil receptivity.
'Mandan'

- Advantages
  - Early harvest, 2-4 days before 'Pawnee'
  - Good size and % kernel.
  - Better scab resistance than 'Desirable' and 'Pawnee'

- Limitations
  - Despite high % kernel often did not fill kernel tips.
  - Dark kernel color and spotting.
  - Kernel cupping.
2009 'Pawnee', 'Mandan', 'Byrd'

<table>
<thead>
<tr>
<th></th>
<th>Nuts / Lb</th>
<th>% Kernel</th>
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<tbody>
<tr>
<td>Pawnee</td>
<td>56</td>
<td>57</td>
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<tr>
<td>Mandan</td>
<td>48</td>
<td>57</td>
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<tr>
<td>Byrd</td>
<td>54</td>
<td>62</td>
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Which to plant?

'Pawnee' – No, scab is too severe, spotting and veining is bad in some years.

2005 sprayed Pawnee nuts. Off-color Pawnee
Which to plant?

- 'Mandan' vs. 'Byrd' – Too soon to know, I would plant some of both.
- Need a pollinator, 'Mandan' and 'Byrd' will not pollinate each other.
New USDA cultivar release: 'Lakota'  

- Parentage: 'Mahan' x 'Major'
- 67 nuts/lb
- 57% kernel
- Excellent scab resistance
- Harvest 1 week after 'Pawnee'
- Will pollinate and be pollinated by 'Desirable', 'Pawnee', 'Byrd', 'Mandan'
‘Kanza’

68 nuts / lb.

51% kernel

**Advantages**
- Similar nut to ‘Elliot’
- Cold hardy
- Early harvest similar to 'Pawnee'

**Limitations**
- Small nut size
- Tends to alternate
New USDA cultivar release: 'Apalachee'

- Parentage: 'Moore' x 'Schley'
- 85 nuts/lb
- 55% kernel
- Extensively tested at Muckalee plantation in Albany.
- Flowering similar to 'Desirable'.
- Early mid-season harvest. 3 weeks after 'Pawnee'
'Apalachee'

- **Advantages**
  - Precocious and consistently productive.
  - Good % kernel and shell out.
  - Strong tree form.

- **Limitations**
  - Smaller nut size than most growers want.
Excel

Quality for years 1-8.

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<th>Yield</th>
<th>Nuts/lb</th>
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<tr>
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<td>52</td>
<td>53</td>
</tr>
<tr>
<td>Stuart</td>
<td>7.2</td>
<td>52</td>
<td>45</td>
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</table>

- Georgia seedling
- Large size
- Low % kernel (thick shell)
- Hard to shell without chipping
Excel

- No scab so far.
- Clean tree.
- Bright pretty kernel

### Pest resistance years 2003-2006.

<table>
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<tr>
<th></th>
<th>Leaf Scab</th>
<th>Nut Scab</th>
<th>Black Aphid</th>
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<tr>
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