

# The 'Kanza' and 'Excel' Pecan Cultivars



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# 'Kanza' Pecan

- History
  - Released in 1996 by the USDA
  - Cross of 'Major' x 'Shoshoni' in 1955
  - Tested as 55-11-11
  - Primarily released for the northern pecan belt.
  - Most common grafted cultivar in Oklahoma.



# Productivity of 'Kanza'

- Not precocious in Tifton trial.
- Good production in mature trees.
- 'Kanza' considered very precocious in Okla. by Dr. Mike Smith.

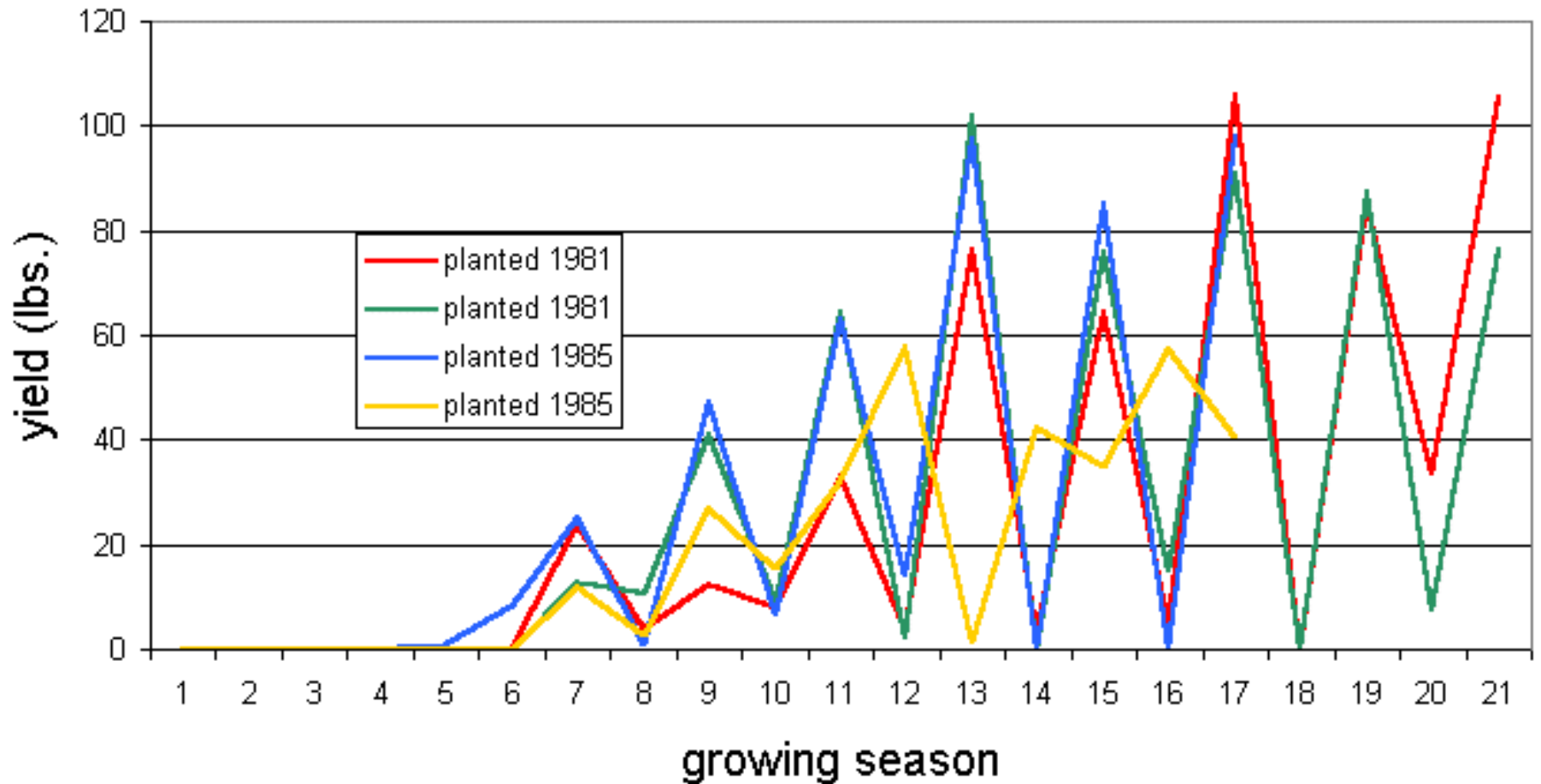
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<b>Cultivar</b>	<b>Average Yield</b>	
	<b>Years 1-10</b>	<b>Years 11-20</b>
<b>Kanza</b>	<b>7</b>	<b>42</b>
<b>Cape Fear</b>	<b>17</b>	<b>59</b>
<b>Sumner</b>	<b>9</b>	<b>46</b>
<b>Pawnee</b>	<b>8</b>	<b>48</b>

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\*Results from Tifton variety trials.

# Kanza



Final Year = 2001

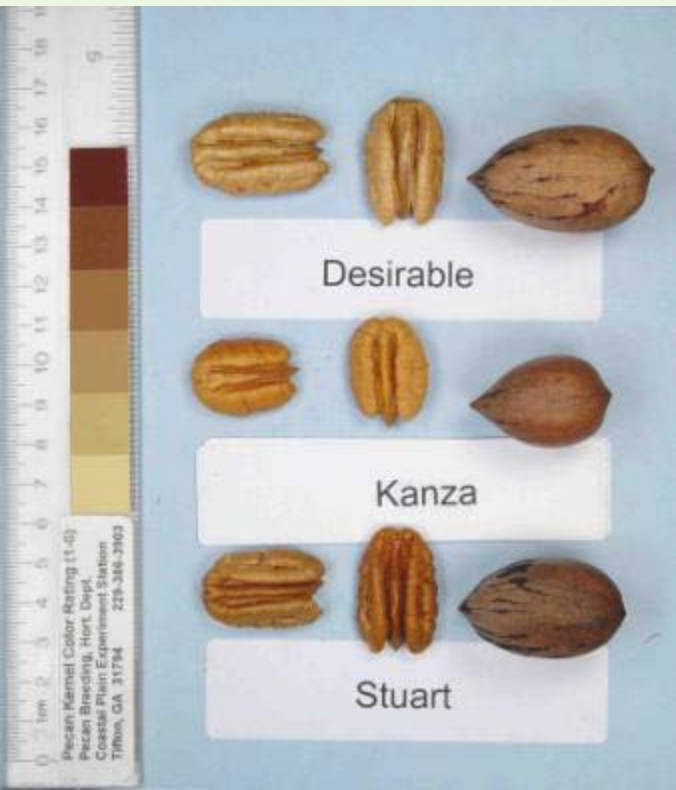
**'Kanza' alternates as a mature tree!  
But, quality remains good in the ON year.**

# ‘Kanza’ Nut Quality

74 nuts / lb.

52% kernel

- Thick shell.
- Round, well-filled kernel.
- Bright golden color.
- Cracks and shells well.



# Similarity to 'Elliot'

	Nuts / lb.	% Kernel	Maturity
<b>Kanza</b>	<b>74</b>	<b>52</b>	<b>Oct. 8</b>
<b>Elliot</b>	<b>77</b>	<b>51</b>	<b>Oct. 12</b>



# Pest Resistance of 'Kanza'

- Very resistant to pecan scab.
  - None seen in Okla. in wet 2004 on unsprayed trees.
  - None seen in sprayed Tifton variety trial.
  - Similar to 'Elliot' in Auburn tests.
- Resistant to powdery mildew in Okla.
- Susceptible to brown spot in Okla.
- Not favored by crows as compared to other early cultivars like 'Pawnee'

# Other factors.

- Very cold hardy.
- Leaves turn yellow and drop early.
- Late pollen shed, early receptivity.
  - Matches: 'Desirable', 'Caddo', 'Cape Fear', 'Pawnee', 'Oconee'
- Has not been planted much in Southeast.



# Recommendation

- Replacement for 'Elliot' in the north of the state and in low spots where freeze damage is likely on 'Elliot'.
- Good low-input choice.
- Recommended for trial in the south.



# 'Excel' pecan

- Originated in Blackshear Ga. as a seedling selection by Mr. Andy Clough
- Has been patented and is sold by Andy and Chris Clough.
- Possible 'Pierce' x 'Success' seedling.
- Parent tree is 30 years old.



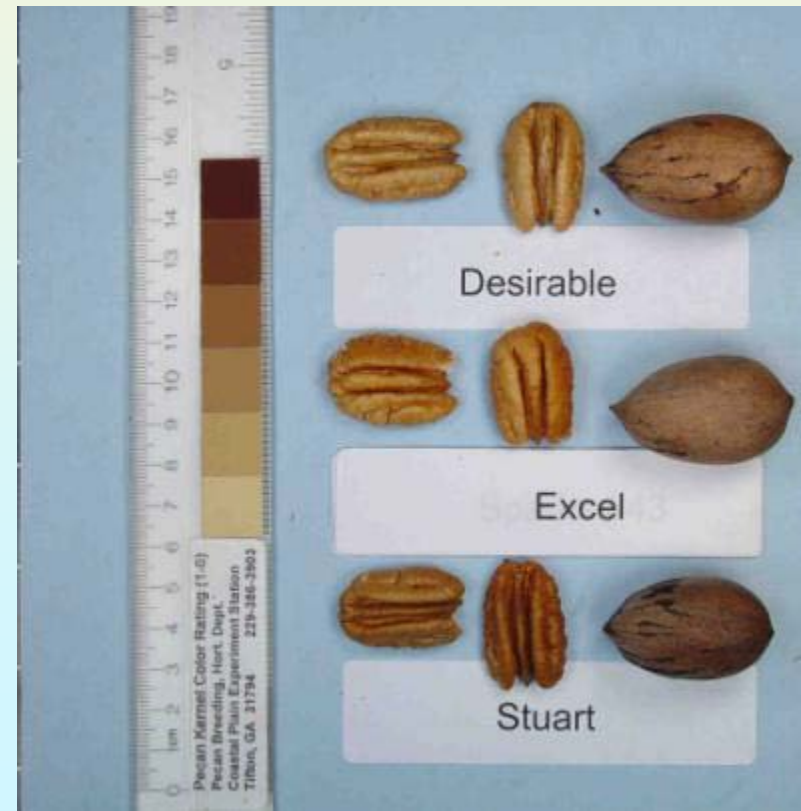
\*Picture from Dr. Bill Goff

# 'Excel' Nut Quality

	Nuts / lb.	% Kernel	Maturity
Excel	50	48	Oct. 9

\*Data from Tifton in 2005.

- Thick shell reduces % kernel.
- Light kernel color.
- Early harvest.



# 'Excel' scab resistance.

- No scab infection reported so far.
- Not widely planted prior to 2000.

No scab on unsprayed trees in Clough orchard in 2005.



# Other notes

- Large cluster size.
- Sparse foliage.
- Weeping growth form.
- Difficult to graft.
- Has not been precocious in our test.
- Receptive to pollen mid-season, sheds pollen late.
  - Matches: Desirable, Pawnee, Cape Fear



# Recommendation

- Recommend for low-input situations.
- Recommended *FOR TRIAL* for commercial use.
  - Be prepared to crop thin mature trees (if possible).





Visit our Website: <http://sacs.cpes.peachnet.edu/pecan/>  
Google “Georgia Pecan Breeding”

The Tifton pecan variety tests are supported by the Georgia Agricultural Commodity Commission for Pecan.