

Tifton Cultivar Trial



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Ponder Farm Variety Trial

- Planted in 2002
- 5-6 trees per cultivar
- 2-week fungicide spray schedule
- Commercial level care.
- Microjet irrigation
- Desirable and Stuart as check cultivars



Data collection

- Yield for each tree
- 50-nut sample
 - nut weight
 - nut volume
 - % kernel
 - % fuzz
- Pest resistance
 - leaf scab
 - nut scab
 - black aphid damage
 - sooty mold buildup
- Bloom times



Cherryle

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
Cherryle	0.3	40	55
Desirable	0.4	52	51
Stuart	0.1	52	45



- Alabama grower selection
- Good size and quality
- Precocity similar to Desirable



Cherryle

- Moderate scab resistance
 - Needs fungicide
- Scabs badly in original orchard
- Reports of suture split



Pest resistance years 2003-2006.

	Leaf Scab	Nut Scab	Black Aphid
Cherryle	1.6	1.4	1.3
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0

Nacono

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
Nacono	1.1	44	51
Desirable	0.4	52	51
Stuart	0.1	52	45



- USDA release
- Good size and quality
- Precocious
- Excellent sheller
- Large cluster size



Nacono

- Very scab susceptible



Pest resistance years 2003-2006.

	Leaf Scab	Nut Scab	Black Aphid
Nacono	2.4	2.6	1.5
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0

McMillan

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
McMillan	0.7	51	47
Desirable	0.4	52	51
Stuart	0.1	52	45

- Alabama seedling
- Low percent kernel
- Somewhat unattractive
- Medium size on mature trees



McMillan



- No scab so far
- Clean tree

Pest resistance years 2003-2006.

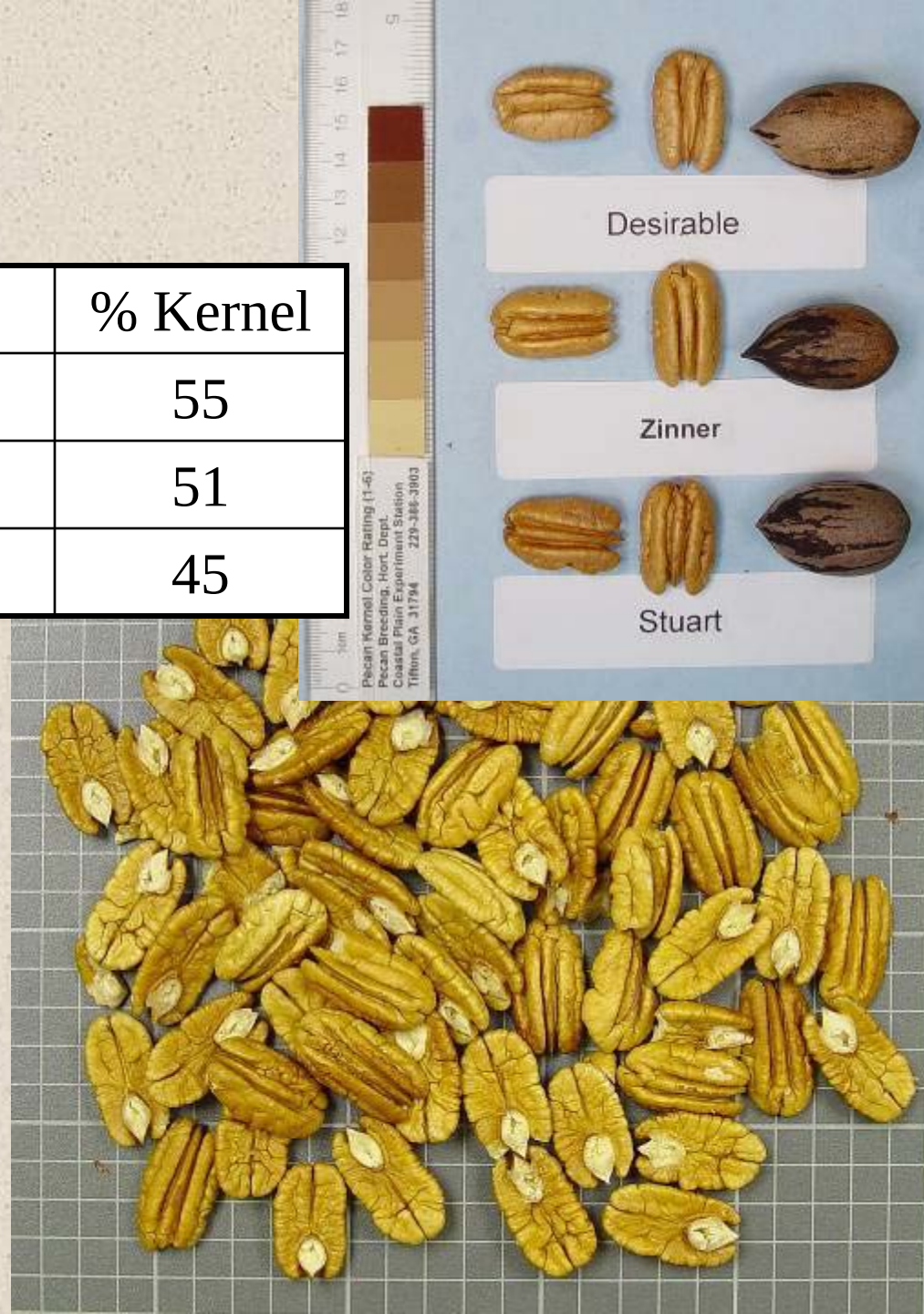
	Leaf Scab	Nut Scab	Black Aphid
McMillan	1.0	1.0	1.5
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0

Zinner

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
Zinner	0.2	51	55
Desirable	0.4	52	51
Stuart	0.1	52	45

- Auburn selection
- Good size and quality
- Bright kernel
- Not precocious
- Vigorous tree



Zinner

- Needs full-season spray schedule
- Resistance similar to Stuart



Pest resistance years 2003-2006.

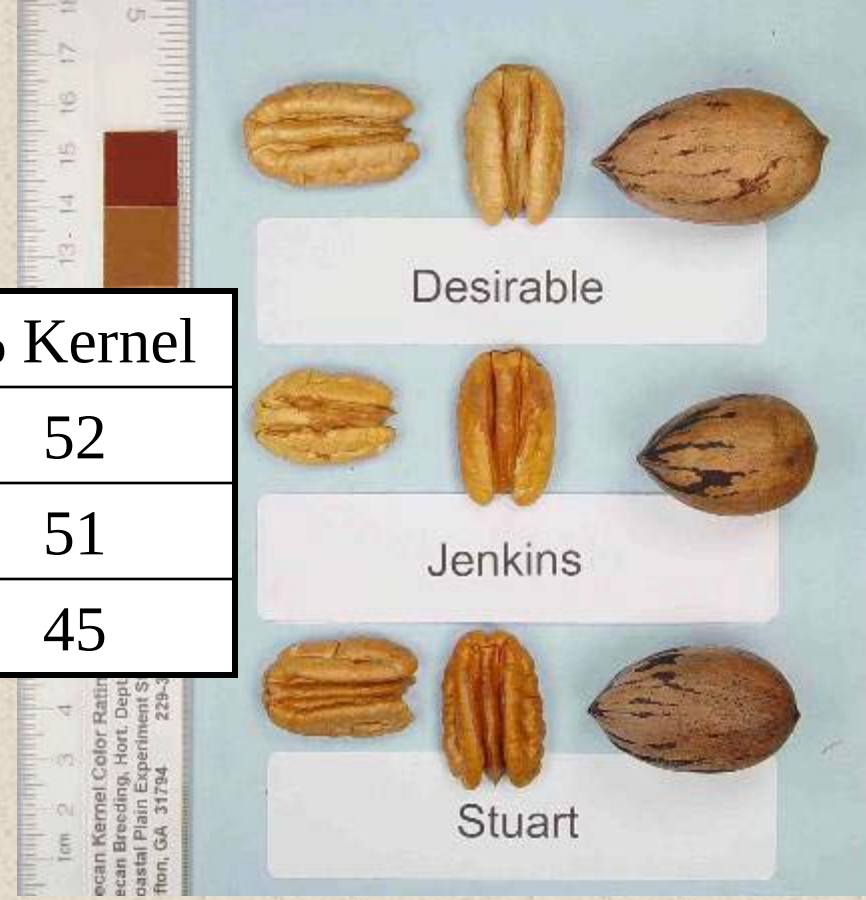
	Leaf Scab	Nut Scab	Black Aphid
Zinner	1.9	1.5	1.9
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0

Jenkins

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
Jenkins	0.5	47	52
Desirable	0.4	52	51
Stuart	0.1	52	45

- Mississippi seedling
- Large cluster size
- Kernel fuzz is common
- Low % kernel on older trees



Jenkins

- No scab so far.



Pest resistance years 2003-2006.

	Leaf Scab	Nut Scab	Black Aphid
Jenkins	1.0	1.0	1.9
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0

USDA 85-1-2

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
85-1-2	0.8	49	57
Desirable	0.4	52	51
Stuart	0.1	52	45

- Osage x BW-1
- Early harvest
- Precocious
- Dark kernel color



USDA 85-1-2

- Similar to Stuart
- Will need full spray schedule

Pest resistance years 2003-2006.

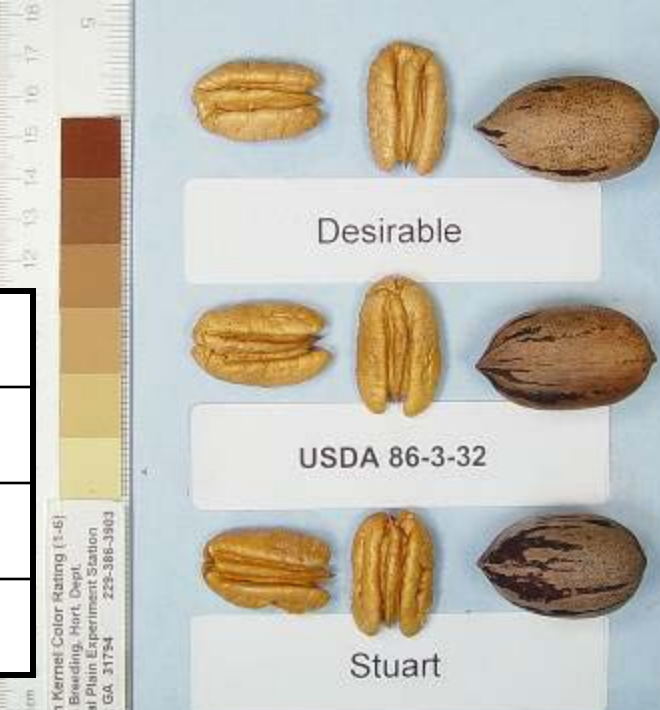
	Leaf Scab	Nut Scab	Black Aphid
85-1-2	1.5	1.7	1.4
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0

USDA 86-3-32

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
86-3-32	1.2	50	57
Desirable	0.4	52	51
Stuart	0.1	52	45

- Cheyenne x Pawnee
- Early harvest
- Precocious
- Poor kernel quality
 - spots and fuzz



USDA 86-3-32

- Scab susceptible
- Black aphids a problem
- Top-working to 'Tobacco Barn'



Pest resistance years 2003-2006.

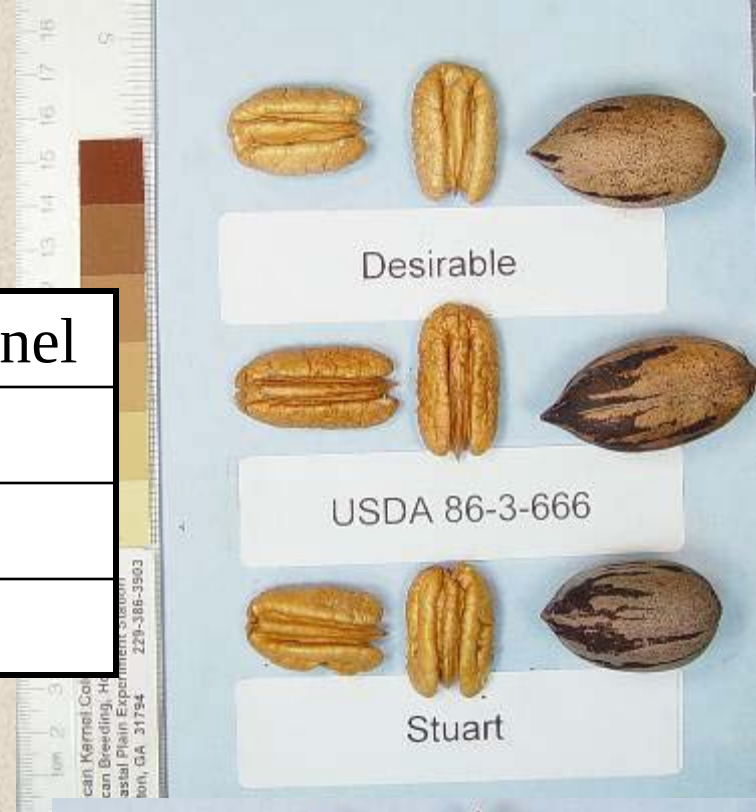
	Leaf Scab	Nut Scab	Black Aphid
86-3-32	1.5	1.7	2.2
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0

USDA 86-3-666

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
86-3-666	1.3	54	54
Desirable	0.4	52	51
Stuart	0.1	52	45

- Cheyenne x Pawnee
- Early harvest
- Precocious
- Poor kernel quality
 - spots and fuzz
 - hollow kernel



USDA 86-3-666

- Too Scab susceptible
- Top-working to 'Faircloth'



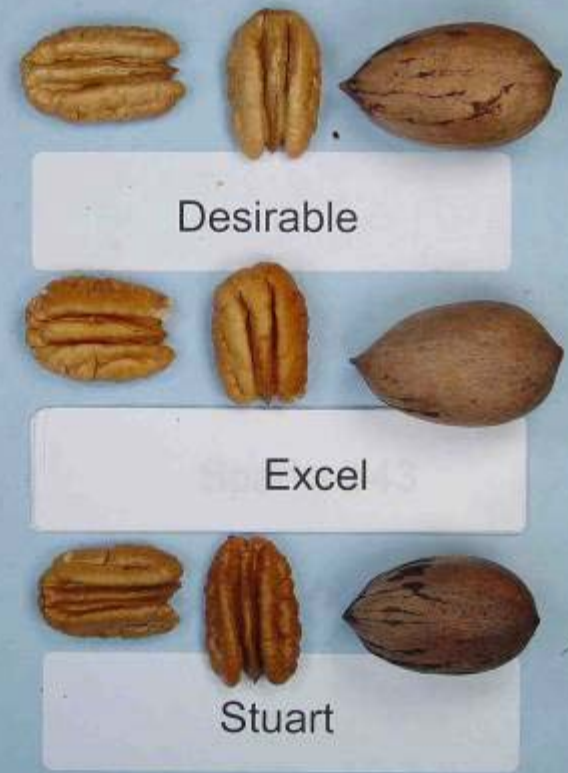
Pest resistance years 2003-2006.

	Leaf Scab	Nut Scab	Black Aphid
86-3-666	2.3	2.5	1.3
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0

Excel

Quality for years 1-5.

	Yield	Nuts/lb	% Kernel
Excel	0.3	44	48
Desirable	0.4	52	51
Stuart	0.1	52	45



- Georgia seedling
- Large size
- Low % kernel
- Hard to shell



Excel

- No scab so far.
- Clean tree.



Pest resistance years 2003-2006.

	Leaf Scab	Nut Scab	Black Aphid
Excel	1.0	1.0	1.3
Desirable	3.0	2.8	1.5
Stuart	1.9	2.0	2.0



Thanks to
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