



Pecan Cultivars

Lenny Wells

UGA Horticulture

UGA Recommended Pecan Cultivars

Low Input	Medium Input	High Input	Conditional	Trial
Amling	Caddo	Desirable	Cape Fear	Byrd
McMillan*	Forkert*	Pawnee	Creek	Zinner*
Excel*	Oconee		Kiowa*	Lakota*
Elliott*	Sumner*			Mandan
Kanza*				Morrill
				Ellis*
				Huffman
				Treadwell
				Cunard

*Type II—Stigma receptive before pollen mature

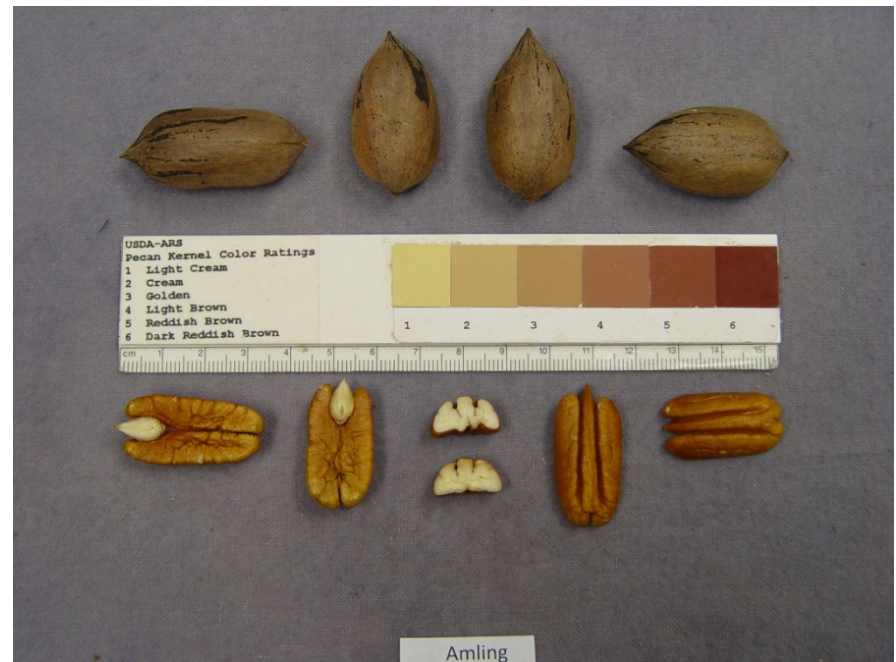
Beware of Gollywobblers



Amling

Productivity questioned
Excellent resistance to insects
and disease

Medium nut size
Good quality



Cultivar	Nuts/lb	% kernel	Harvest	Scab	Black Aphid
Amling	57	55	Oct. 17	1	1
Desirable	44	53	Oct. 14	2.5	1.7

Caddo

- 67 nuts/lb
- 54% Kernel
- Matures Oct. 11
- Mild scab but requires spraying
- Consistent producer
- Preferred by Black Aphids



Cape Fear

- 55 Nuts/lb
- 51% Kernel
- Matures Oct. 19
- Scab Variable
- Alternate Bearing Index = 0.41
- Very precocious
- Needs to be fruit thinned as a mature tree
- Sensitive to crowding
- Bacterial Leaf Scorch may be a problem



Desirable

- 44-48 nuts/lb
- 51-53% Kernel
- Matures Oct 16
- High Maintenance (Scab)
- Consistent, high quality crops
- Requires training of young trees
- Good variety for middle GA area



Elliott*

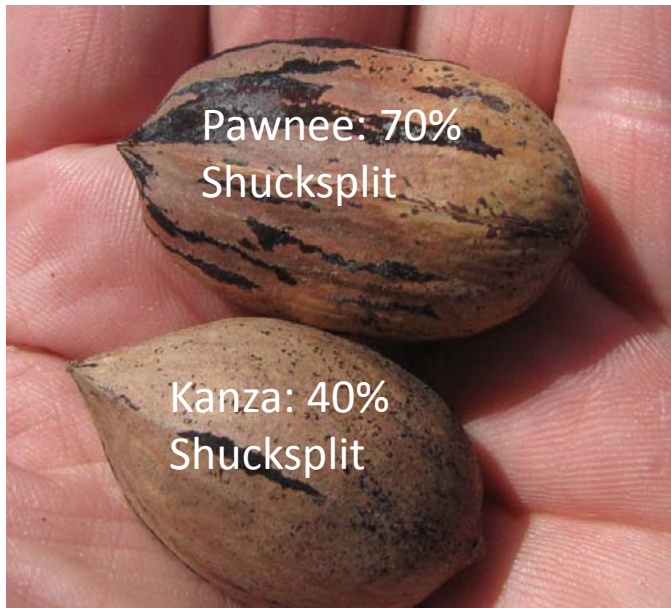
- 77 nuts/lb
- 51% Kernel
- Matures Oct. 15
- Scab Rating = 1
- Heavy alternate bearing
- Low precocity

- Requires little to no scab protection
- Susceptible to Powdery Mildew, Black Aphids, Sooty Mold
- Drought Resistant
- Low Input



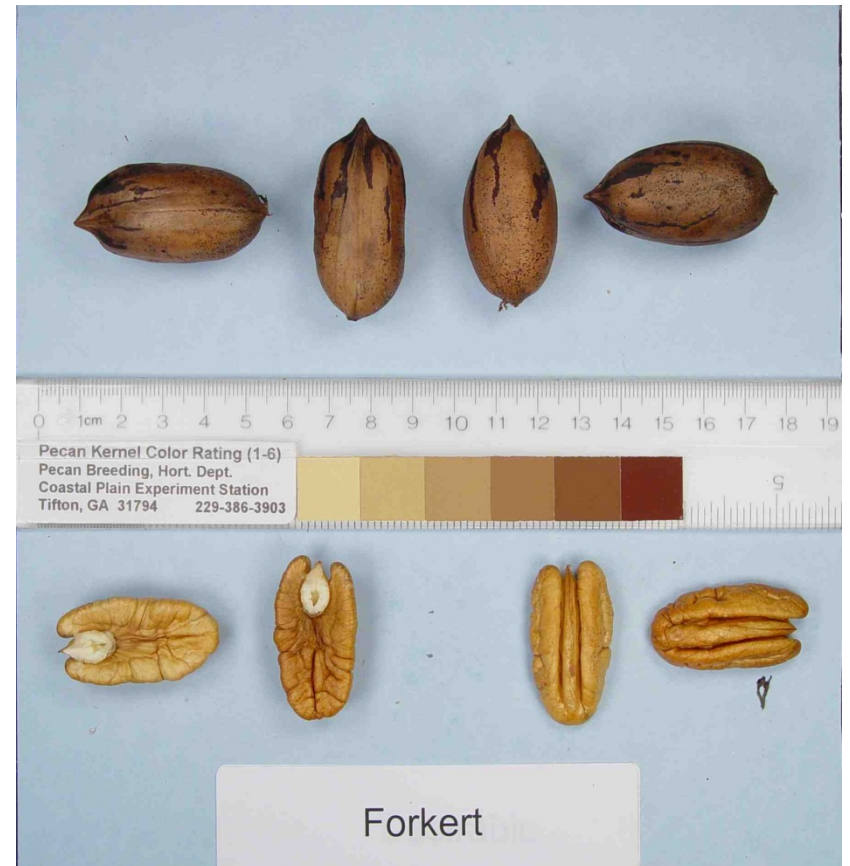
Kanza*

- 68 nuts/lb, often larger
- 51% Kernel
- Harvest end Sept/Early Oct
- Scab Rating = 1
- Alternate bears
- Bears sooner than Elliott



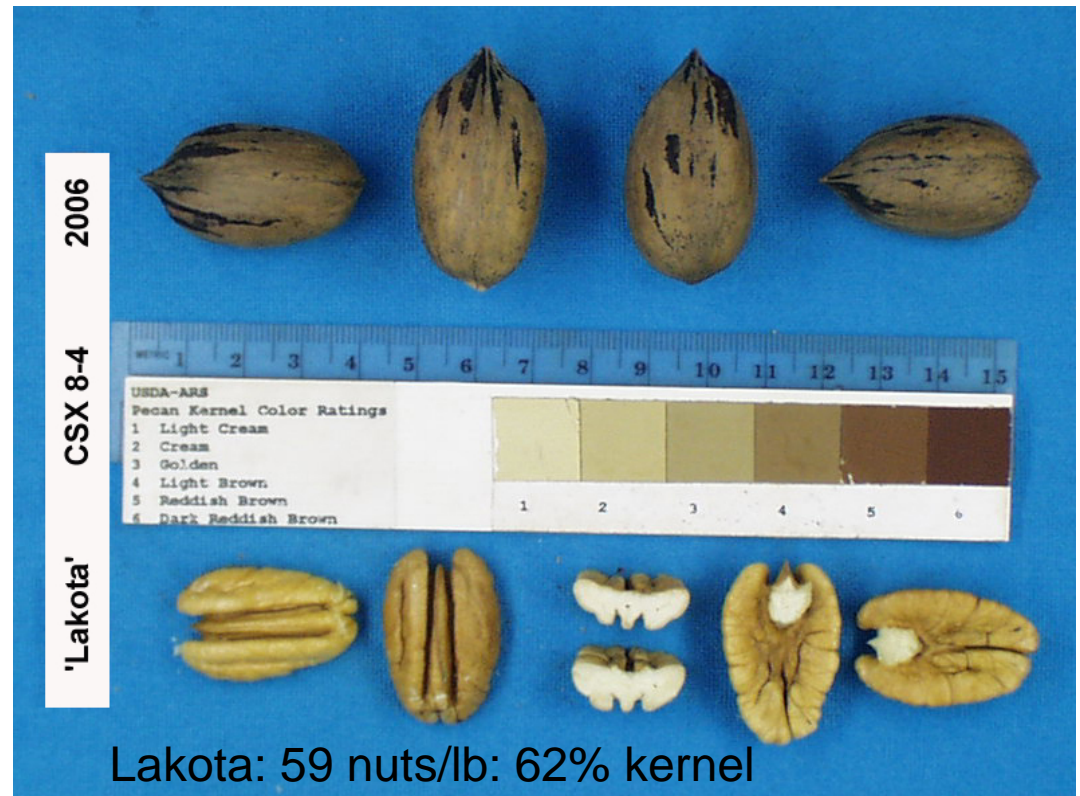
Forkert*

- 53 nuts/lb
- 58% Kernel
- Matures Oct. 19
- Requires fungicide spray
- Alternate bears
- Thin shell, shells out well
- Deteriorates rapidly when not harvested on time
- Susceptible to Black Aphids
- Under-utilized



Lakota*

- 59 nuts/lb*
- Nut size variable
- 62% kernel
- Good scab resistance
- Harvest late Sept.
- Heavy alternate bearing
- Good partner w/Pawnee

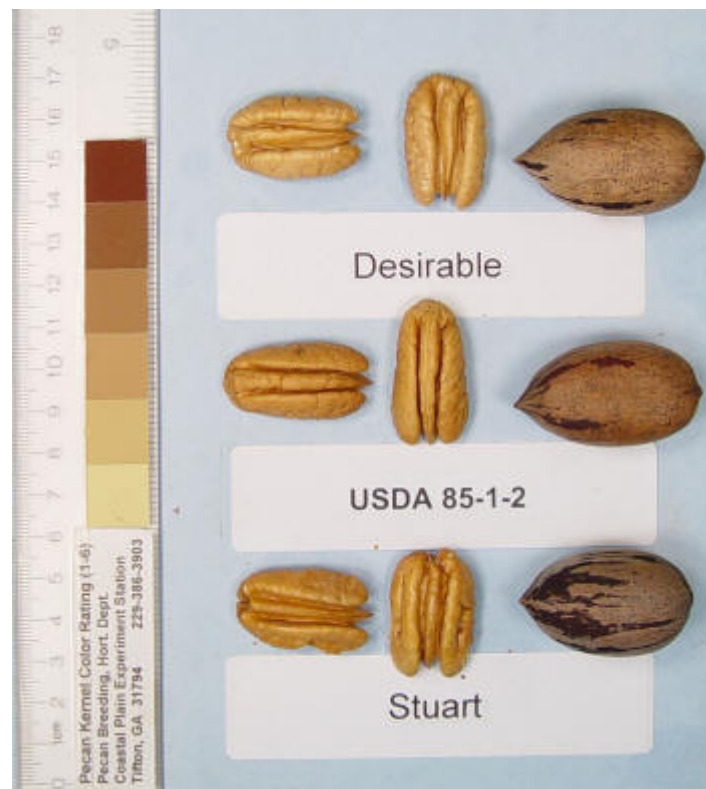


Mandan

- 49 nuts/lb
- 57% kernel
- Harvest mid-late September
- Scab susceptible



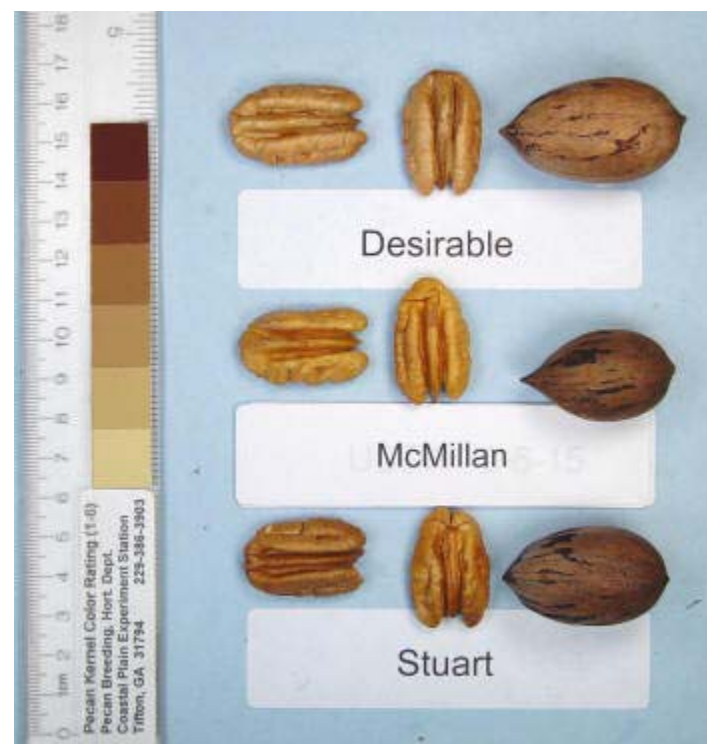
Photo: W. Reid





McMillan*

- Excellent overall pest resistance
- Medium size & quality
- Heavy yields



Cultivar	Nuts/lb	% kernel	Harvest	Scab	Black Aphid	Avg yield yr. 1-10
McMillan	51	50	Oct. 12	1	1.5	23
Desirable	44	53	Oct. 14	2.5	1.7	12

Oconee

- 48 nuts/lb
- 53% Kernel
- Matures Oct. 12
- Variable scab resistance
- Vigorous tree
- Susceptible to Black Aphids
- Do not crowd



Pawnee

- 56 Nuts/lb
- 54% Kernel
- Harvest mid-late Sept.
- Highly susceptible to scab
- Alternate bears
- Precocious
- Often needs fruit thinning
- Vining and spotting common



Sumner*

- 56 Nuts/Lb
- 54% Kernel
- Matures Oct 29
- Scab Rating = 2
- Can alternate bear
- Preferred by black aphids
- Late Harvest Date (Oct. 29)
- Popular as scab resistant variety but can scab in some locations



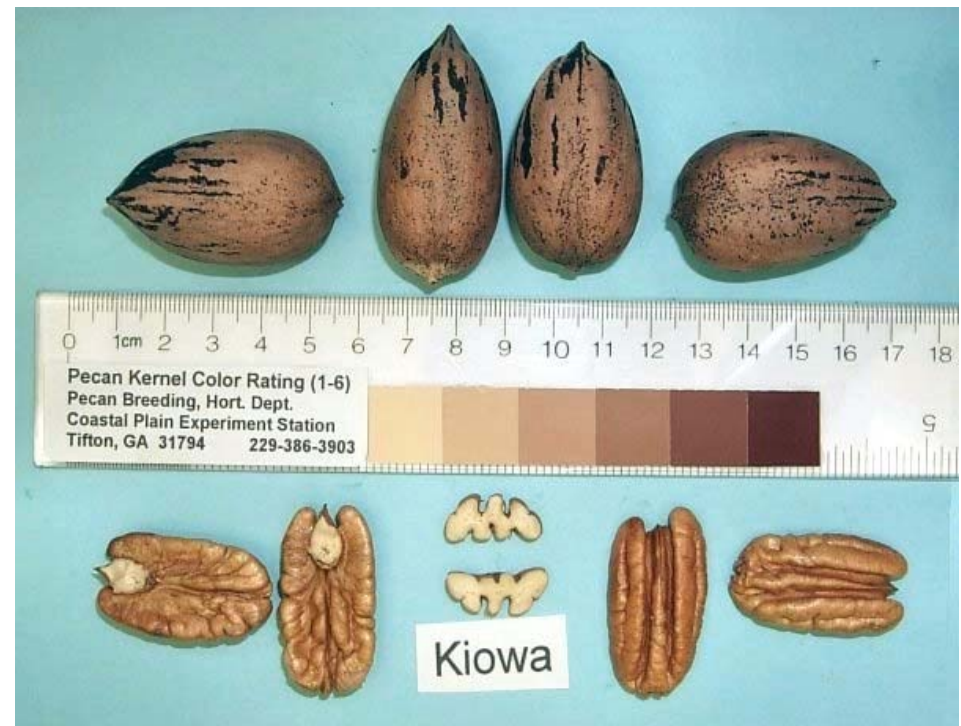
Creek

- 55 Nuts/Lb
- 48% Kernel
- Matures Oct 18
- Relatively low scab
- Alternate bears heavily
- Must be fruit thinned
- Very precocious
- Performs well in shade
- Good temporary tree or as interplant in mature orchard



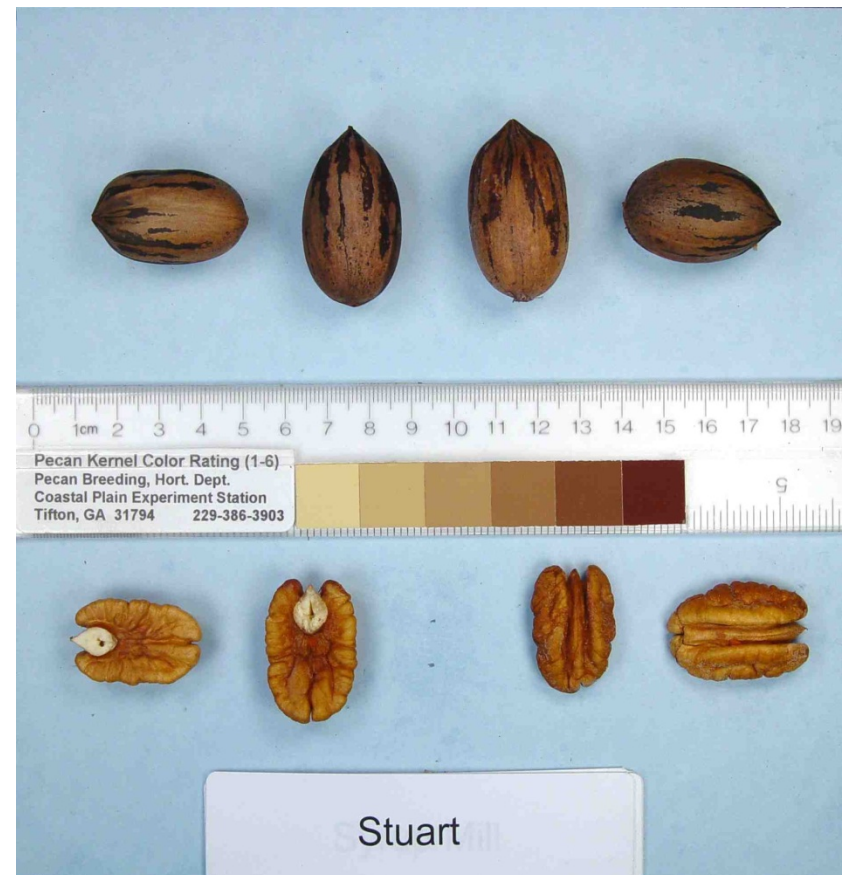
Kiowa*

- 48 Nuts/Lb
- 53% kernel
- Matures Oct 21
- Requires fungicide
- Alternate Bears
- Good pollinator for Desirable
- Difficult to fruit thin



Stuart*

- 55 Nuts/lb
- 46% Kernel
- Matures Oct 16
- Nut maturity highly variable on same tree
- Scabs heavier now than in past
- Alternate Bears
- Marginal nut quality
- Sooty mold buildup



Ellis*

- Seedling from Dooly Co., GA.
- 43-48 nuts/lb
- 56-59% kernel
- Harvest Date: Oct. 11
- Medium scab resistance
- Black aphid susceptible
- Type II: Pollinated by Cape Fear, Creek, Desirable, Oconee, Stuart



Excel*

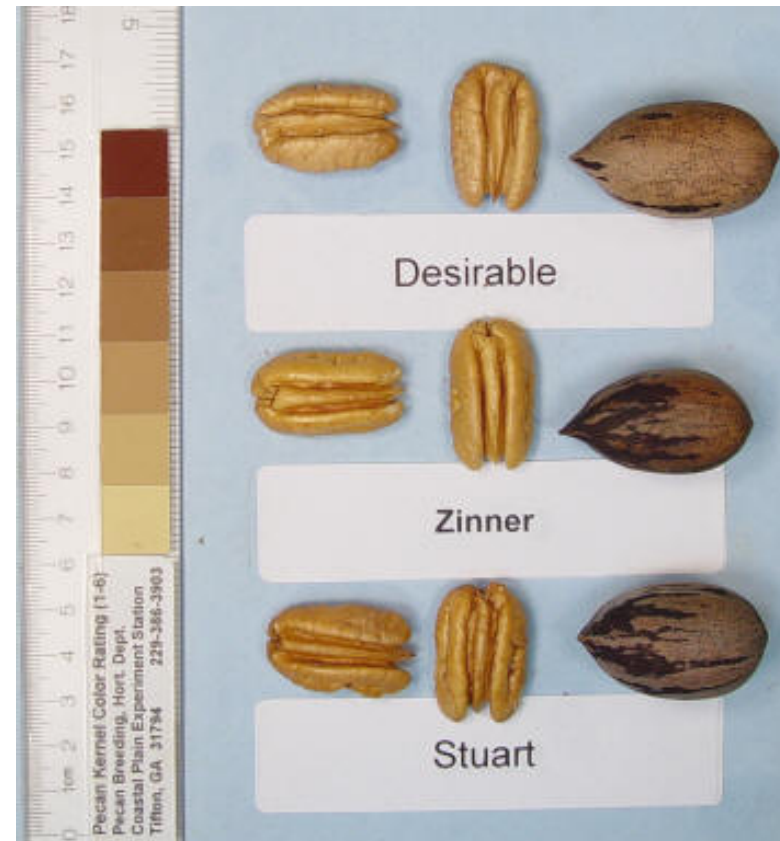
- 45 nuts/lb
- 49% Kernel
- Matures early in some locations, later in others
- Scab Rating = 1
- Alternate Bearing = ?
- Precocity = ?
- Thick Shell; Bright Color



Cultivar	Nuts/lb	% kernel	Harvest	Scab	Black Aphid
Excel	44	49	Oct. 13	1	1.3
Desirable	44	53	Oct. 14	2.5	1.7

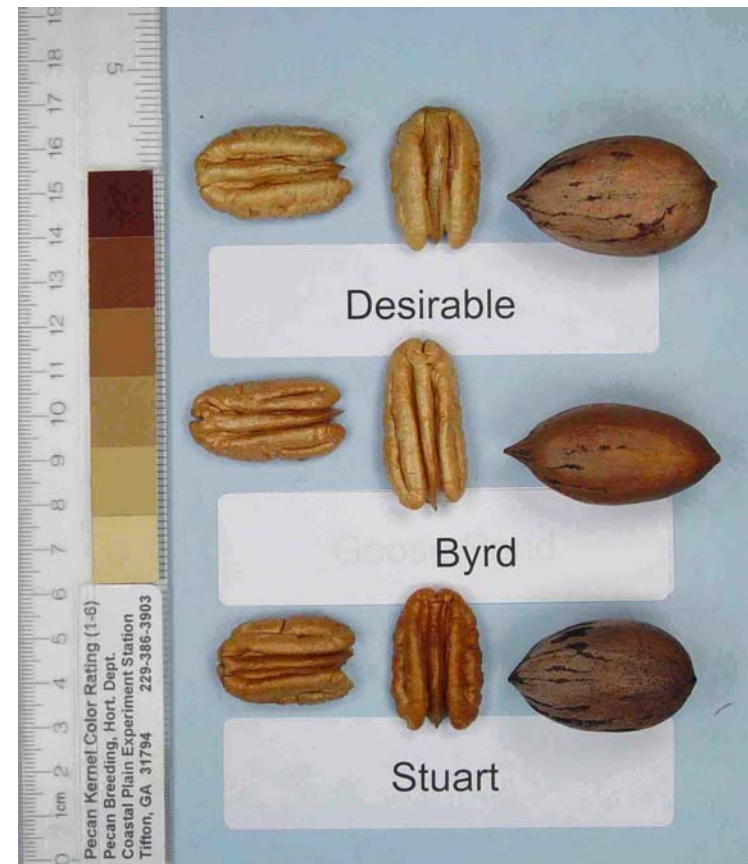
Zinner*

- 48 nuts/lb
- 57% kernel
- Harvest Oct. 12
- Good yields
- Good scab resistance
- Susceptible to black aphid
- Type II (Stigma receptive before pollen mature)



Byrd

- Available in 2009
- 'Pawnee' x 'Desirable'
- 58 nuts / lb 62% kernel : 2 days after 'Pawnee'
(Oct 5)



Morrill

- 43 nuts/lb
- 65% kernel
- Harvest Oct. 16
- Will require fungicide sprays
- Self thins

Cunard

- 43 nuts/lb
- 63% kernel
- Harvest Oct. 1
- Will require fungicide
- Heavy fruiting
- Very precocious (12 lbs/tree year 5)
- Likely will alternate bear



Huffman





- 40 nuts/lb
- 54% kernel
- Harvest mid-October
- Type I
- Not precocious
- Self thins like Desirable
- Scab resistance good so far

Treadwell

- 52 nuts/lb
- 60% kernel
- Percocious
- Bright kernel
- Requires fruit thinning
- Harvest date similar to Byrd
 - Just after Pawnee



Pollination compatibility chart for pecan cultivars in Georgia.

	Pollen source is not compatible.
	Partial compatibility. Pollen source provides pollen in the first half of receptivity.
	Partial compatibility. Pollen source provides pollen in the second half of receptivity.
	Good compatibility. Pollen source provides pollen during most of the receptive period.

		Cultivar to be pollinated														Pollen Sources
		Amling	Apalachee*	Byrd	Caddo	Cape Fear	Cherryle	Creek	Cunard*	Desirable	Elliott	Excel	Forkert	Gafford	Giftpack	
Flower Type		I	I	I	I	I	II	I	II	I	II	II	II	I	II	
	Amling															
	Apalachee*															
	Byrd															
	Caddo															
	Cape Fear															
	Cherryle															
	Creek															
	Cunard*															
	Desirable															
	Elliott															
	Excel															
	Forkert															
	Gafford															
	Giftpack															
	Gloria Grande															
	Headquarters															
	Kanza															
	Kowa															
	Lakota*															
	Mandan															
	McMillan															
	MoneyMaker															
	Moreland															
	Morrill*															
	Oconee															
	Pawnee															
	Schley															
	Stuart															
	Sumner															
	Zinner															

*To determine compatibility, find the cultivar to be pollinated in the top row and scan down the column for potential pollinators. Shading in the left half of the box indicates the pollinator would be effective in the first half of the cultivar's receptive period. Shading in the right half of the box indicates the pollinator would be effective in the last half of the receptive period. Shading of the entire box indicates pollen would be shed by the pollinator during most of the cultivar's receptive period. Data for cultivars with red type is preliminary.

Pollination compatibility chart for pecan cultivars in Georgia.

	Pollen source is not compatible.
	Partial compatibility. Pollen source provides pollen in the first half of receptivity.
	Partial compatibility. Pollen source provides pollen in the second half of receptivity.
	Good compatibility. Pollen source provides pollen during most of the receptive period.

		Cultivar to be pollinated																Pollen Sources
Flower Type		Gloria Grande	Headquarters	Kanza	Kiowa	Lakota*	Mandan	McMillan	MoneyMaker	Moreland	Morrill*	Oconee	Pawnee	Schley	Stuart	Sumner	Zinner	
II	II	II	II	II	II	I	II	II	II	II	I	I	II	II	II	II	II	
																		Amling
																		Apalachee*
																		Byrd
																		Caddo
																		Cape Fear
																		Cherryle
																		Creek
																		Cunard*
																		Desirable
																		Elliott
																		Excel
																		Forkert
																		Gafford
																		Giftpack
																		Gloria Grande
																		Headquarters
																		Kanza
																		Kiowa
																		Lakota*
																		Mandan
																		McMillan
																		MoneyMaker
																		Moreland
																		Morrill*
																		Oconee
																		Pawnee
																		Schley
																		Stuart
																		Sumner
																		Zinner

*To determine compatibility, find the cultivar to be pollinated in the top row and scan down the column for potential pollinators. Shading in the left half of the box indicates the pollinator would be effective in the first half of the cultivar's receptive period. Shading in the right half of the box indicates the pollinator would be effective in the last half of the receptive period. Shading of the entire box indicates pollen would be shed by the pollinator during most of the cultivar's receptive period. Data for cultivars with red type is preliminary.