



Low-Input Pecan Production

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UGA Horticulture





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UGA Recommended Pecan Cultivars

Low Input	Medium Input	High Input	Conditional	Trial
McMillan*	Caddo	Desirable	Cape Fear	Zinner*
Excel*	Forkert*	Pawnee	Kiowa*	Lakota*
Elliott*	Creek			Whiddon
Kanza*	Summer*			Avalon*
				Tanner
				Tom

*Type II—Stigma receptive before pollen mature




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Current Situation

	GA State Yield (lbs)	Avg Yield/Acre	Avg Price	Gross/Acre	Variable Cost of Production	Net
2020	147.5 M	1100	1.27	\$1397	\$1485.88	-\$88.88
2021	88.6 M	642	2.06	\$1322.52	\$1485.88	-\$163.36
2022	125.5 M	870	1.64	\$1426.80	\$1807.27	-\$380.47

- Survival will require **highly productive/scab resistant** cultivars



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Orchard Spraying.


"Sprayed" trial - Ponder Variety Grove, Shiloh Farms.


Managed to have moderate to severe scab on 'Desirable'. Surrounded by unsprayed seedlings. Sprays begin with summer rains in June. Typically 6-7 sprays per season.

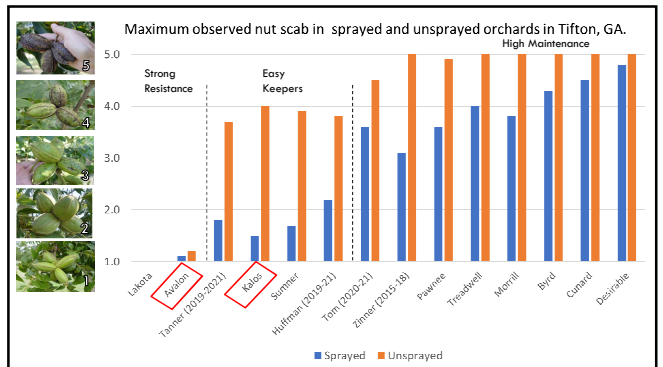
"Unsprayed" Trials

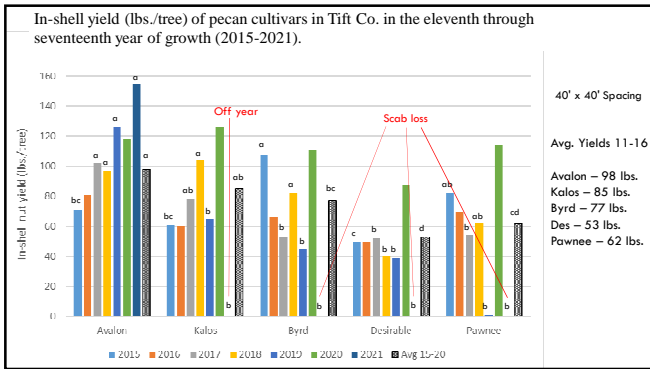
Located at Ponder Farm. Sprayed for shuckworm. Some trees replicated at NILO Plantation in Albany.

Evaluate trees at the end of August.



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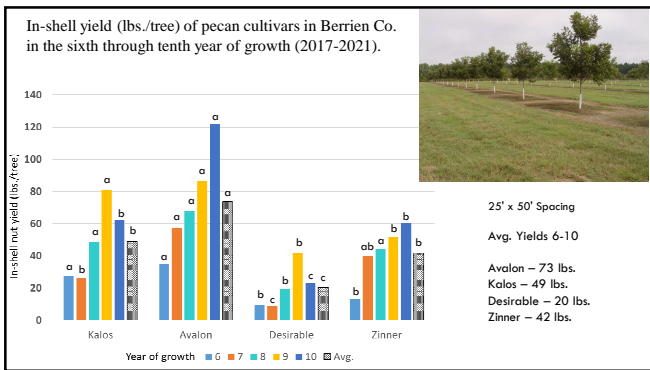
Kalos

- 'Sioux' x 'Desirable'
- Scab easily controlled.
- Good quality kernel.
- Harvest 3 days before 'Desirable'.
- Good production.
- Crop thin in heavy years.
- Little black aphid damage.
- Pollinate with Avalon, Sumner, Zinner

'Kalos' Pecan

- **Very new, trial plantings recommended.** 45 nuts/lb. 55% kernel

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Low-Input Trial-UGA Ponder Farm

- Trees receive normal fertilization and herbicide management, insecticide as needed
- **NO FUNGICIDES APPLIED**

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Avalon

- 'Caddo' x 'Gloria Grande'
- Excellent scab resistance.
- Good quality kernel.
- Harvest 1 week before 'Desirable'.
- **Steady and good production.**
- Black aphids a common pest.
- Pollinate with Whiddon, Kalos or Creek

'Avalon' Pecan

47 nuts/lb. 54% kernel

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Lakota*

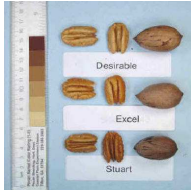

- 48-55 nuts/lb*
- Nut size variable
- 62% kernel
- Excellent scab resistance
- Harvest late Sept.
- Heavy alternate bearing
- Good partner w/Pawnee

Lakota: 59 nuts/lb; 62% kernel

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Excel


- 49 nuts/lb
- 49% kernel
- Excellent Disease Resistance
- Thick Shell
- Good yields
- Alternate bearing

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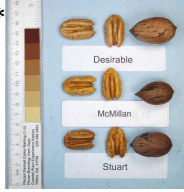



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McMillan*

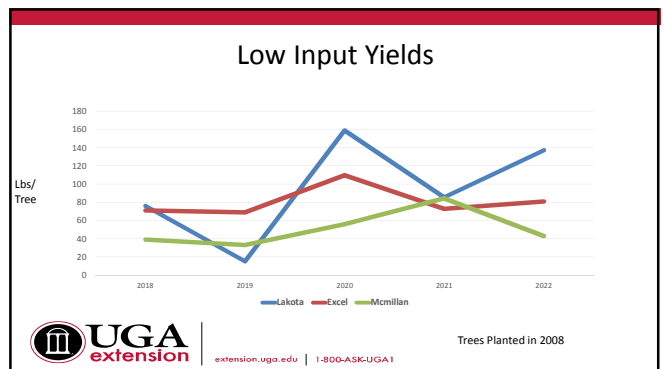
- Excellent overall pest resistance
- Medium size & quality
- Heavy yields



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



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Lakota in Low Input Trial

No fungicide sprays





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Low Input Test

5-Year Average Yrs 11-16

	Yield/tree	Yield/acre	Count	% kernel	Cost/A	Price (\$)	Gross (\$)	Net (\$)
Lakota	94.3	2546	60	58	1110.67	2.02	\$142.92	\$4032.25
Excel	81	2187	46	49	1110.67	1.76	3941.60	\$2738.45
McMillan	51.3	1385	56	53	1110.67	1.77	2056.74	\$1340.78



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Lakota

	5 yr avg yield	Count	% Kernel	Price range
Lakota Yrs 10-14	94 lbs/tree	60	58	\$2.02

Western (Western Schley)







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*Kernels turn amber quickly.... a factor that could negatively affect its final price.

Fruit-Thinning Lakota

	2020 Yield/tree (lbs)	2020 Nuts/lb	2020 % Kernel	% Bearing Terminals May 2021	2021 Yield /tree (lbs)	2021 Nuts/lb	2021 % Kernel
Thinned	110b	63a	56b	61.6b	155a	59b	58b
Non-Thinned	159a	62a	54a	11.6a	85b	52a	60a

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Fungicide Sprays based on Scab Potential Baseline Schedule

Baseline Spray Dates	Low Susceptibility \$36	Medium Susceptibility \$87.50	High Susceptibility \$130*
Early April			Phosphite
Mid April	Phosphite	Phosphite	Group 3 + Group 11
Early May			Phosphite
Mid May	Group 3 + Group 11	Group 3 + Group 11	Phosphite
Early June		Elast/Tin or Tin/Phosphite	Miravis Top
Mid June	Phosphite	Miravis Top	Elast/Tin
Early July		Elast/Tin or Tin	Miravis Top
Mid July		Miravis Top	Elast/Tin
Early August		Elast/Tin or Tin	Miravis Top
Mid-August			Elast/Tin

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