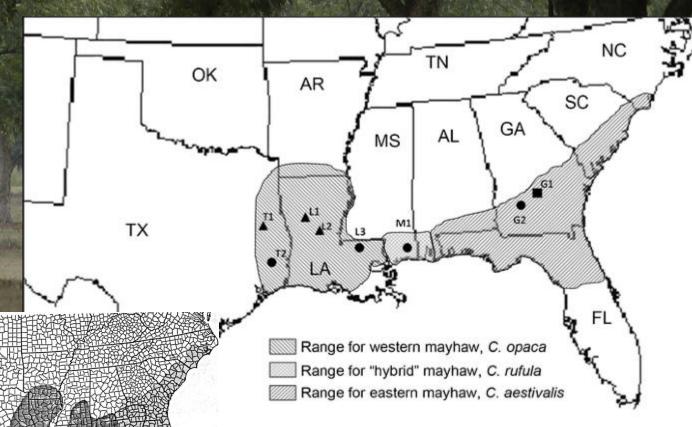






Cultivar Selection

- When deciding want to plant this is what to consider:
 - 1) Disease Resistance/ Tolerance
 - 2) Where is it from or been tested?
 - 3) Tree health and longevity
 4) Production Potential
 5) Fruit Quality

















Proper Tree Spacing

- A wider tree spacing allows for greater sunlight penetration and can reduce disease pressure by facilitating better airflow.
- Foliar applications are much more effective when trees are properly spaced.
- Wider spacing encourages better branch angles.
- Further spacing also reduces fertilizer inputs.



Iroper Tree Spacing

- Greater sunlight penetration and airflow can reduce the number of pathogen favorable environments in an orchard.
- In pecan orchards, a wide spacing can mean the difference between having to spray every 2 weeks to only 3 times a season for scab



Iroper Tree Spacing

• Trees at a wider spacing are easier to spray thoroughly.

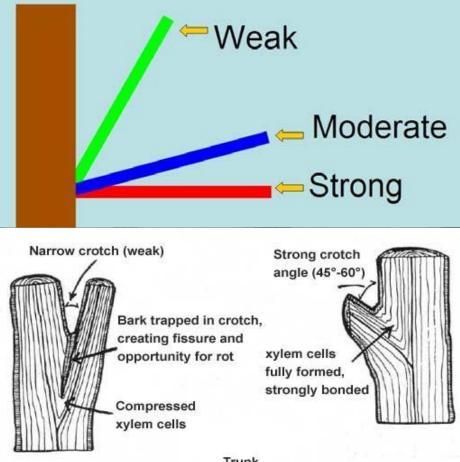
• Tight trees will have pockets that spray applications will miss.

• You might require aerial support!

Iroper Iree Spacing

• Trees planted too close together will weaker branch angles. This makes them less resistant to weather events and more prone to breakage.

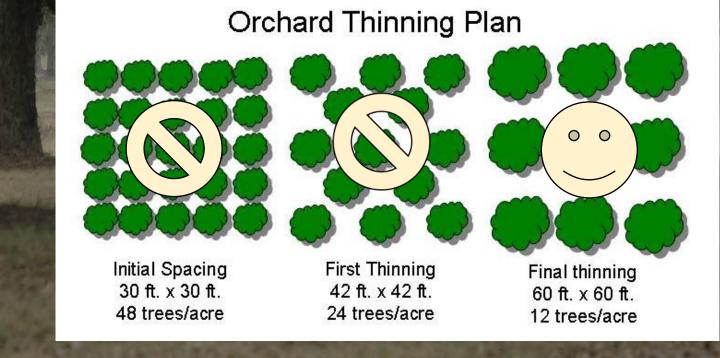
• Trees at a wider spacing will create more strong branch angles.



Trunk (longitudinal cross-section)

Iroper Tree Spacing

- Pecan average maturity size: 70 to 100 ft tall with a 40 to 75 ft spread.
- I have never had anyone tell me they wish they had planted their trees closer together



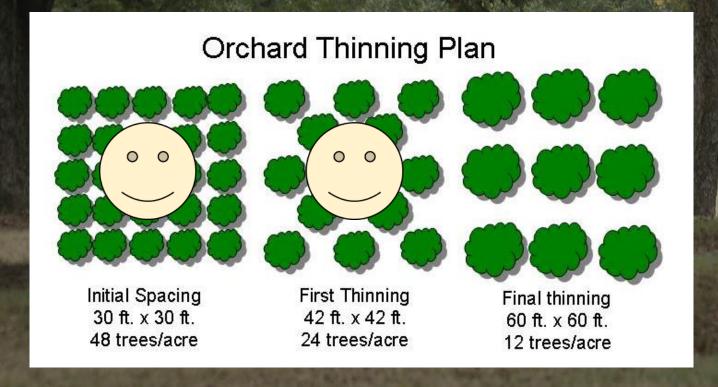
Інорен Гнее Spacing

- Consider planting your trees at more mature spacing so you won't have to worry about thinning later.
- For pecans, 60 by 60 has is what many growers wish they had started with

Tree Spacing Within Rows		Tree Spacing Between Rows (ft.)										
(ft.)	20	30	35	40	45	50	60	70	80	100		
20						44	36	31	27	22		
30						29	24	21	18	15		
35						25	21	18	16	12		
40						22	18	16	14	11		
45					22	19	16	14	12	10		
50				22	19	17	15	12	11	9		
60				18	16	15	12	10	9	7		
70				16	14	12	10	9	8	6		
80				14	12	11	9	8	7	5		
100				11	10	9	7	6	5	4		

Iroper Tree Spacing

• Mayhaw average maturity size: 30 ft tall by 30 ft wide.



Proper Tree Training











• If you want your trees to have a long and productive life, you need to train them.



• Trees that fork too low to the ground have a greatly reduced longevity.

• Trees that fork close too close to the ground also create issues with maintaining the orchard floor and mobility of spray equipment.



Proper Tree Training

- You want to slowly prune up trees as they age to push the fork up to as high as you can.
- When possible, encourage ones with good branch angles.
 - Wider = good
 - Narrow = not so good.
- Never too late to start but recovery time is longer in older trees.



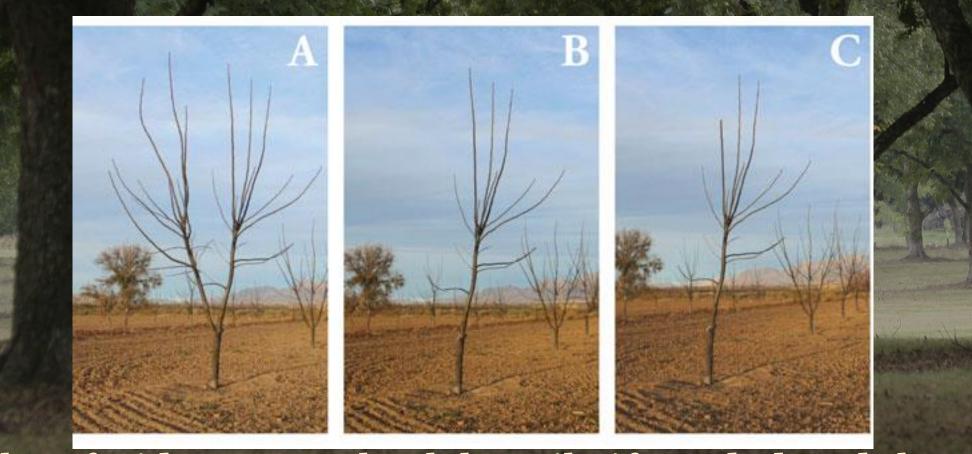
• It is best to train the tree to a central liter as long as possible.

• Every year, remove some lower limbs until you have pushed the forking up the tree beyond reach.



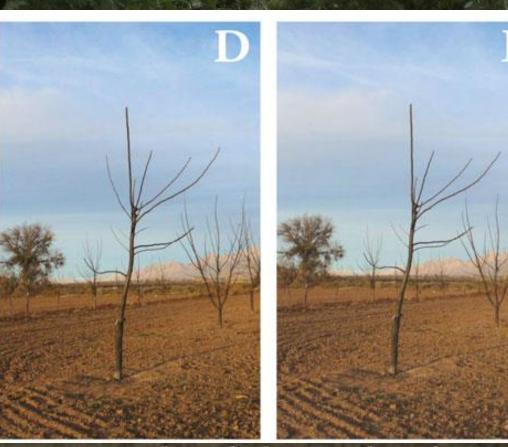
• Ideally, all pruning cuts should be done when they are still small enough to be cut easily by hand.

• Larger cuts take longer to heal over.



• Don't be afraid to prune back heavily if needed and the tree is well established

Photos by Richard Heerema



• Don't be afraid to prune back heavily if needed and the tree is well established

















- Don't let your orchard get overgrown with weeds.
- Weeds are more efficient at water and nutrient uptake.
- When possible, keep the orchard floor down to ~6 inches unless you are growing clover.



- Sometimes you have no choice but to let things grow up because you can't cut your orchard....
- It may be worthwhile to investigate options to increase drainage or sometimes cover cropping with desired vegetation is a more practical option.

- Growing clover is a great way to add nitrogen and organic matter to the soil.
- A great way to reduce mowing in the early part of the year.
- If you can't get a good start of clover, you likely are not getting enough sunlight penetration.



• Clover can be a great way to incorporate slowrelease nitrogen in a mayhaw orchard to reduce incidences of Fireblight that can spike in fast release formulations.



- Weed free areas maintained through herbicide are not the right solution for everyone, especially those with wet orchards.
- I only recommend it for high to medium input settings and when the terrain is suitable for it.









 If your orchard floor is super saturated every Spring, that may not be the best time for you to fertilize.

• You may want to fertilize later in the year once it dries up a bit.

- Don't fertilize blind. Get your soil tested.
- Soil tests can be done any time of the year.
- Soil tests can give information on most important nutrients but are not useful for determining Nitrogen needs.

Phosphorus	K Potassium	Mg Magneslum	Ca	Soil pH	Buffer pH	S Sulfur	В		Mn	Fe	Cu	
264 VH	537 VH	974 VH	4680 VH	6.7	7.65	28 M	Boron 2.5 H	29.5 VH	Manganese 92 A	Iron 624 VH		
Aluminum	Sodium	Nitrate N	Soluble Salts	Organic Matter 4.13 %	enr 82.6	Molybdenum ppm	NH4	Nickel ppm	BlCarbs meq/l			
Very High			Soll A	nalysis	Rating]s				Base Satura	6 %	
High Adequate										H: 14.5 Na:	5 % %	
Medium				-[]-						\mathbb{Z}		

				Fertill	ty Recomm	nendatio	ns				
Crop: PECANS				Ibs. per Acre				Yield: MAX			
Lime Tons/Acre	Gypsum Tons/Acre	N Nitrogen	P205 Phosphate	K2O Potash	Mg Magneslum	S Sulfur	B Boron		Mn Manganese	Fe	
		150				17					

- Foliar applications of fertilizer are a great way to correct a deficiencies quickly but
- If you are doing foliar fertilizations, you should consider a ground application as well for long term mediation.



Questions

Michael Polozola II, PhD

