

# Silvo pasture

## Agenda

- History on Silvopasture/ Carbon farming project
  - Tree considerations and placement
    - Livestock considerations
      - Housing & fencing
    - Grasses & rotations
      - Pigs

## Umass Carbon Farming Initiative

https://sustfoodfarm.org/2018/09/24/umasss-first-carbon-farming/



MOU1  
MOU2



### Chestnuts





Slide 4

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- MOU1    Microsoft Office User, 6/18/2020
- MOU2    Microsoft Office User, 6/18/2020



## Possible Trees (suggestions)



**PERSIMMONS**

Pine, Poplar,  
Pecans, etc



**LOCUST**

\*considered invasive in  
MA, CT & Me



**APPLES**



**PEARS**







**Table 5.2. Silvopasture spacing chart: woodland/savanna spacing patterns**

Table 3.2.1: Canopy Spacing																						
Spacing (Feet)	3	5	8	10	12	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
Trees/Acre	4,840	1,742	681	436	303	194	109	70	48	36	27	22	17	14	12	10	9	8	7	6	5	
Canopy Diameter (Feet)	3	79%	28%	11%																		
	5		79%	31%	20%	14%																
	8			79%	50%	35%	22%	13%														
	10				79%	55%	35%	20%	13%													
	12					79%	50%	28%	18%													
	15						79%	44%	28%	19%	15%	11%										
	20							79%	50%	35%	26%	19%	16%	12%	10%							
	25								79%	54%	41%	30%	25%	19%	16%	14%	11%	10%	9%	8%	7%	6%
	30									78%	58%	44%	36%	28%	23%	19%	16%	15%	13%	11%	10%	8%
	35										80%	60%	49%	38%	31%	27%	22%	20%	18%	15%	13%	11%
	40											78%	63%	49%	40%	35%	29%	26%	23%	20%	17%	14%
	% Shade Calculator	45												80%	62%	51%	44%	37%	33%	29%	26%	22%
50														77%	63%	54%	45%	41%	36%	32%	27%	23%
55															76%	65%	55%	49%	44%	38%	33%	27%
60																78%	65%	58%	52%	45%	39%	32%

Note: Thanks to Connor Stedman for developing and sharing this table.

## Tree protection



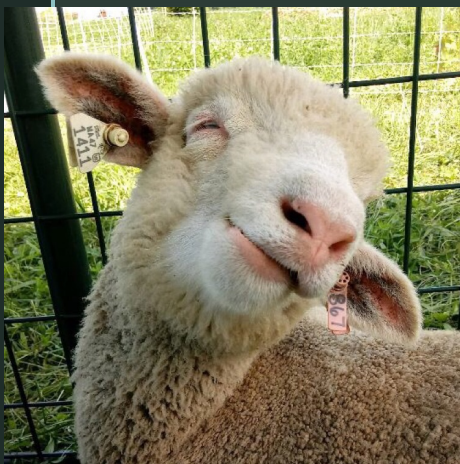




## Livestock Considerations

- Fencing
- Infrastructure
- Housing needs
  - Market
- Eating preference
- Natural Behavior

## Sheep





Goats



Chickens



Geese



Ducks



## Cattle



## Housing











Training to fence









## Grass

[https://extension.unh.edu/resources/files/Resource006122\\_Rep8712.pdf](https://extension.unh.edu/resources/files/Resource006122_Rep8712.pdf)





## Tall grass



Reed Canary (lower half of  
silvopasture), wetter environment



Orchard grass











Upper Pasture

Lower Pasture









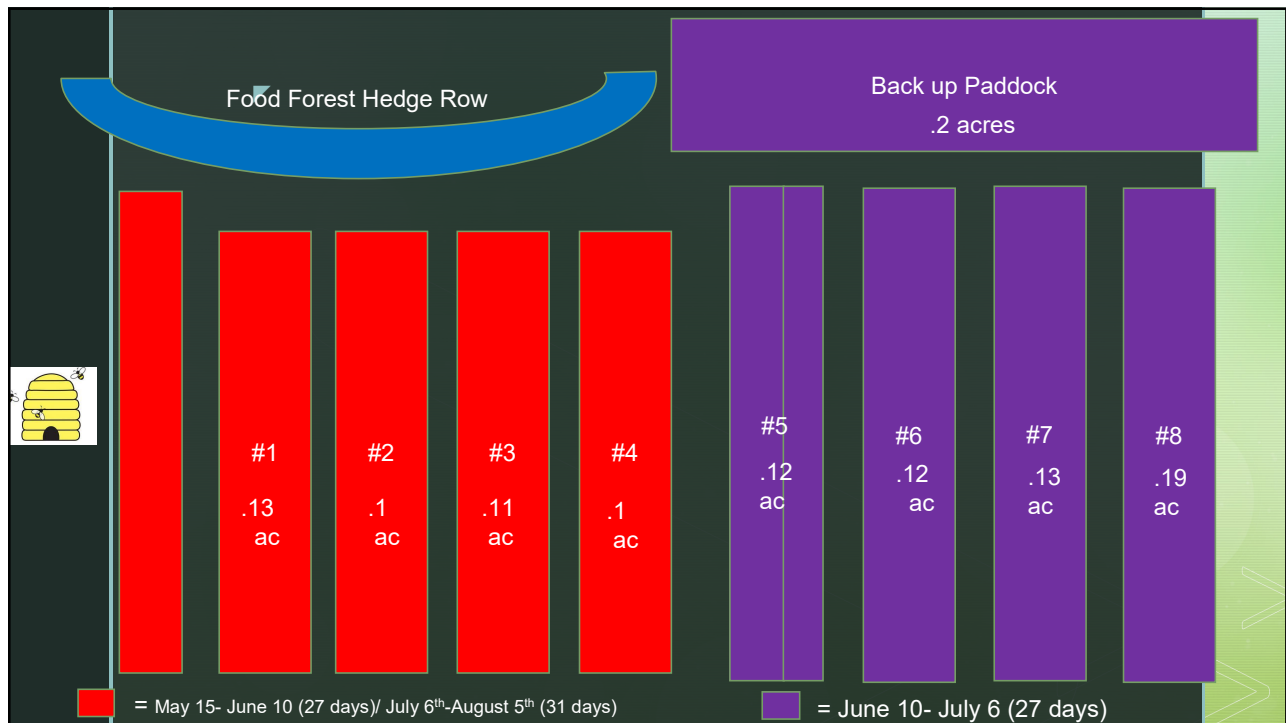
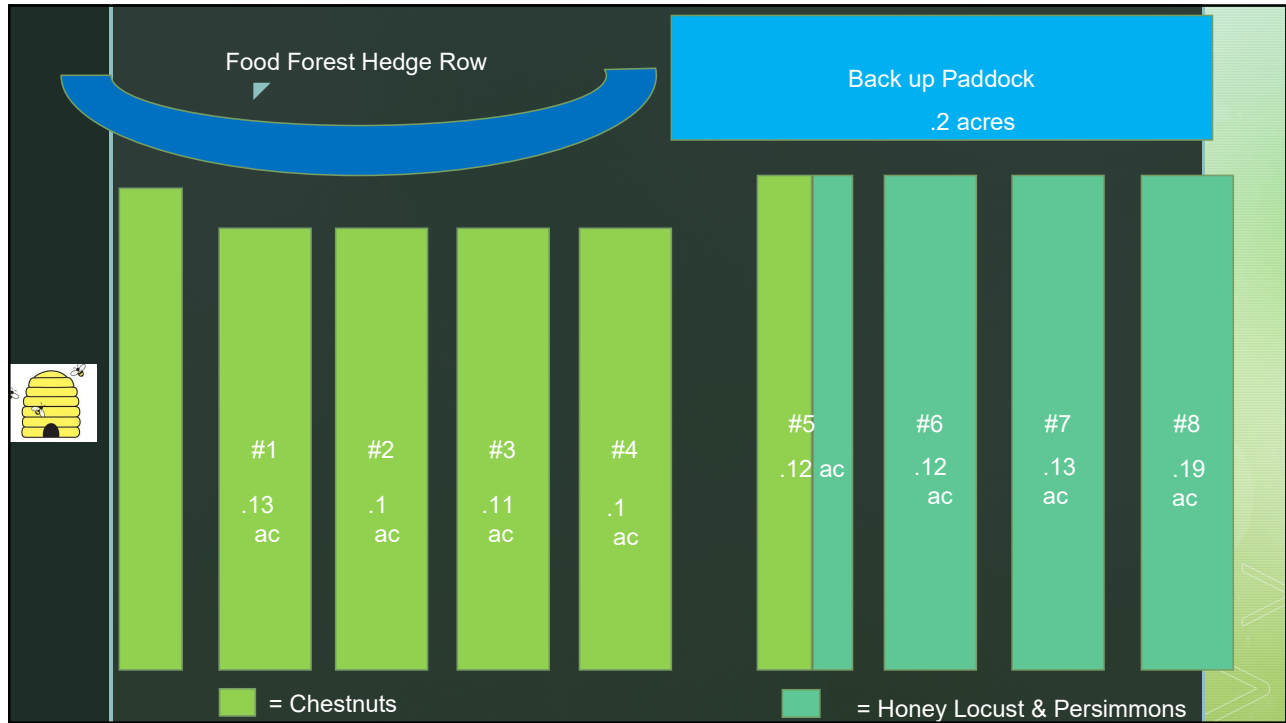
















## Developing Silvopasture from standing woods



Same area 4 years later



## Pigs













Approx. ¼ acre

