

# 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

---

**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**

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%		
45												80%	62%	51%	44%	37%	33%	29%	26%	22%	18%			
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



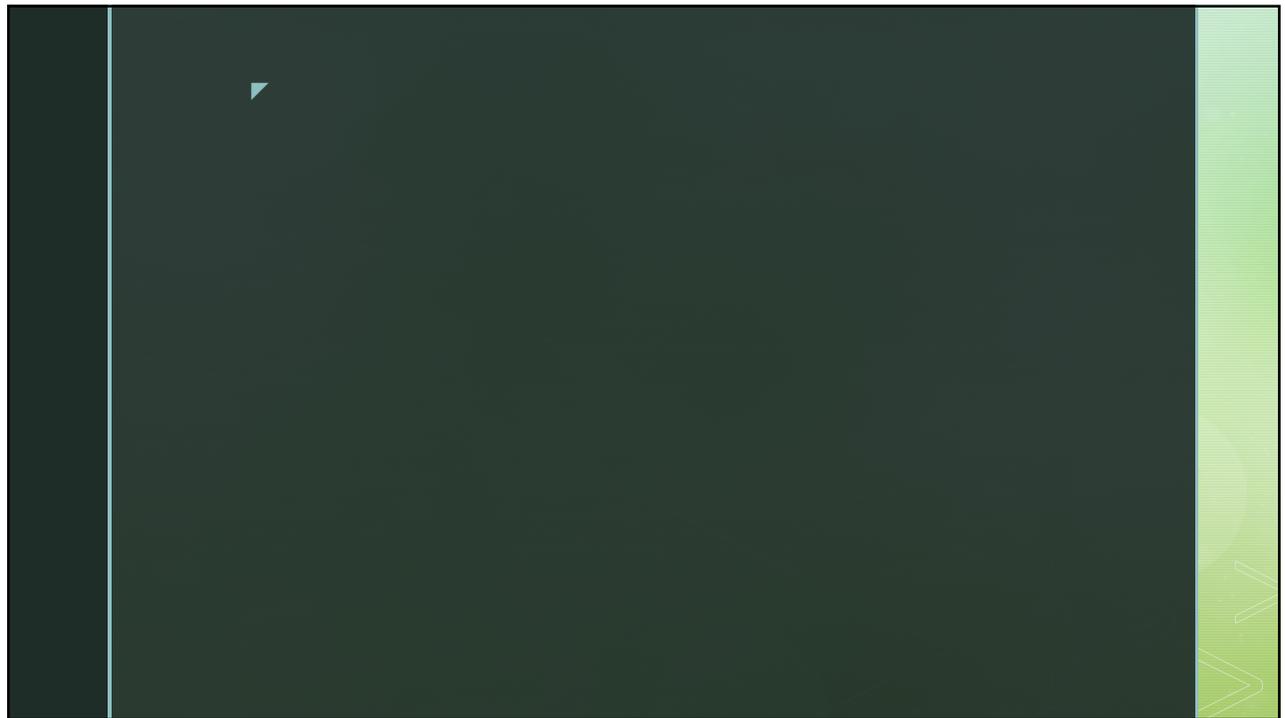
Lower Pasture

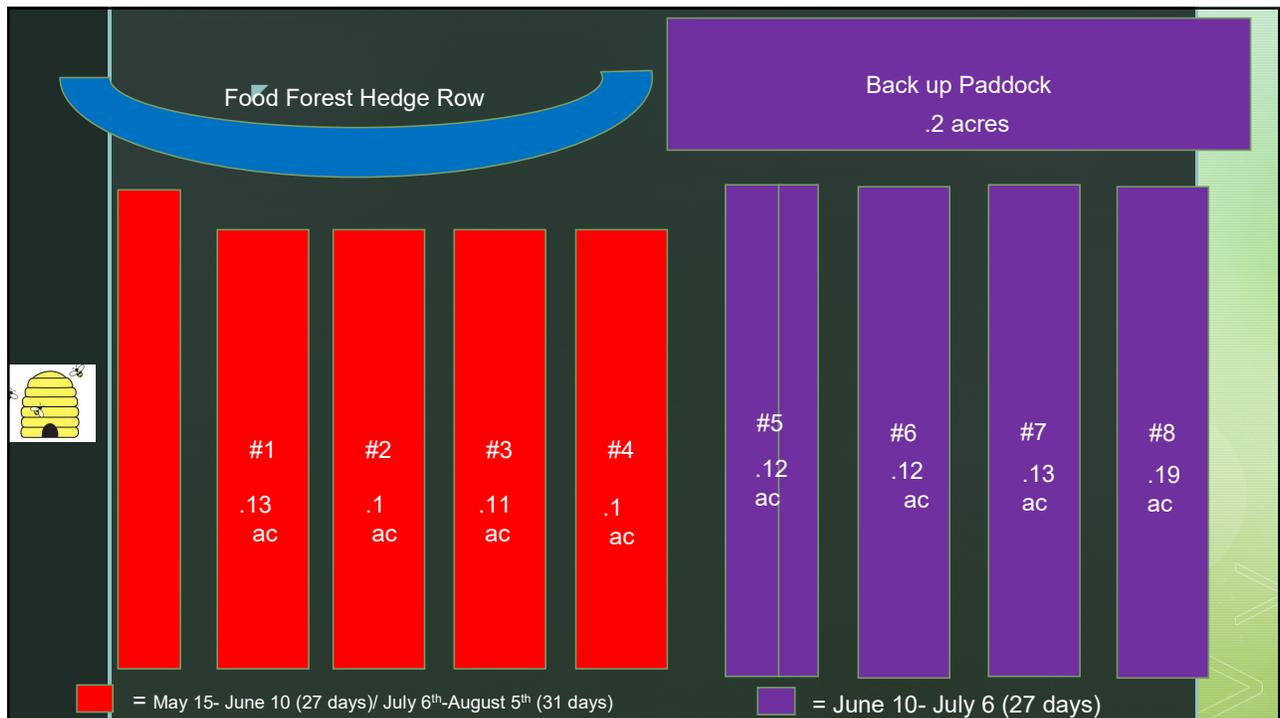


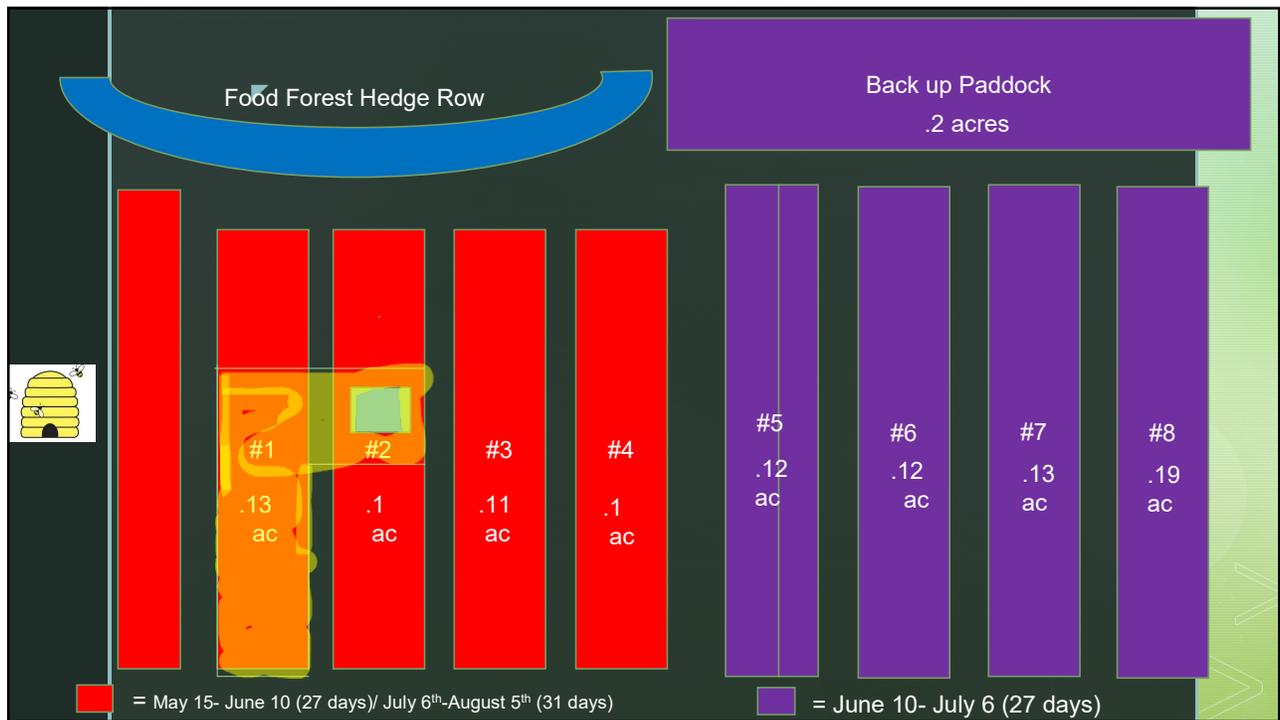
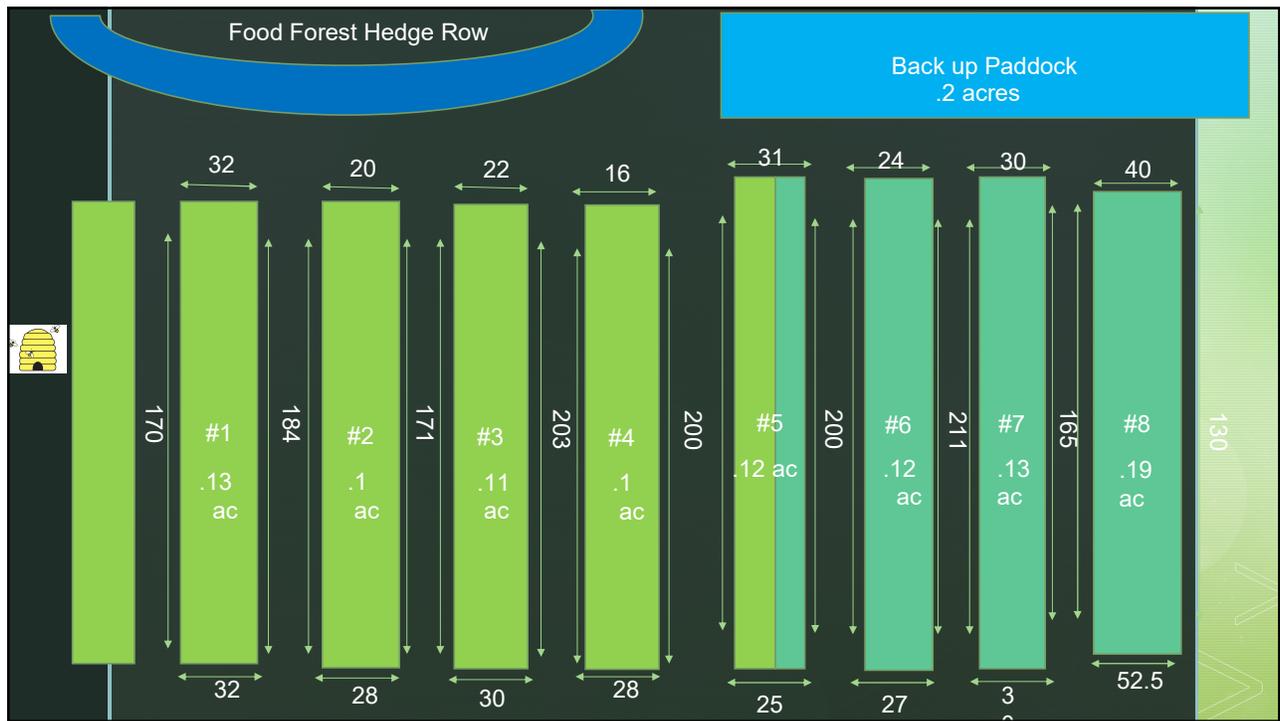












## Developing Silvopasture from standing woods



... Same area, 4 years later



## Pigs









Approx. 1/4 acre

