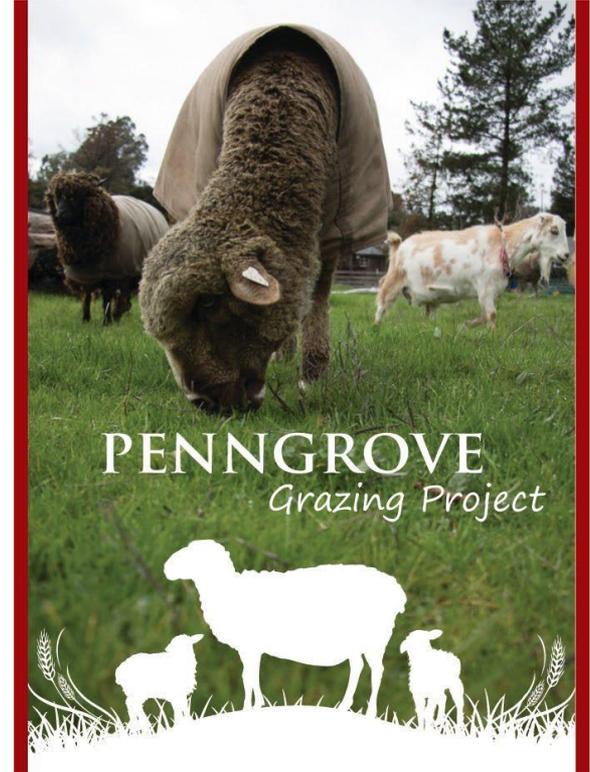


Wild Oat Hollow

Sarah Keiser

Penngrove Grazing Project



The Penngrove Grazing Project is . . .

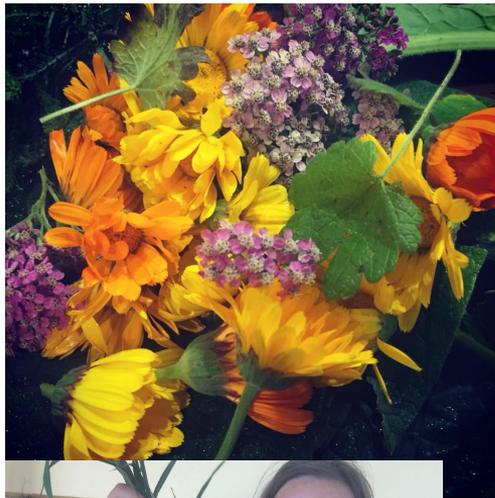
1. A community based, ecologically sound, land management system.
2. My project involves bringing sheep and goats into the unused, mowed or unmaintained pastures of my neighborhood. Assisting neighbors in their brush, grass & fire risk management using carbon farming methods
3. All animals will be moved on the hoof.
4. Facilitate and/or train grazing of further locations by connecting land owners with need to holistic grazers.
5. Planting hedgerows, trees, shrubs & medicinals in the pastures we graze.
6. Relationship building & collaboration is vital in this project. Once we have established relationships, neighbors are more willing to consider other ways of doing things.



Thanks to the North Face Grant

- Additional portable, electric fencing and a charger
- Our willow row hedgerow
- Our Alder/Elderberry hedgerow
- A plethora of wonderful medicinal and native herbs to add to our hedgerows
- Magnus the amazing Romney ram





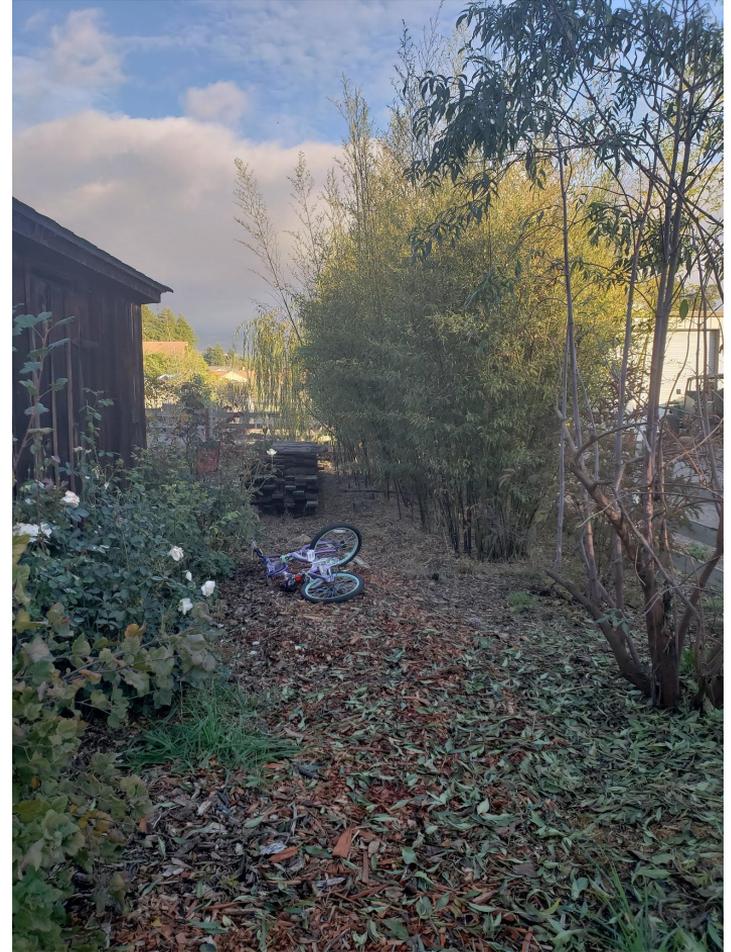
Plantings & Hedgerows

Planting diverse hedgerows on our land and on the properties we graze. Observing the land we graze over the seasons to understand how it changes and to identify what plants will be most successful.

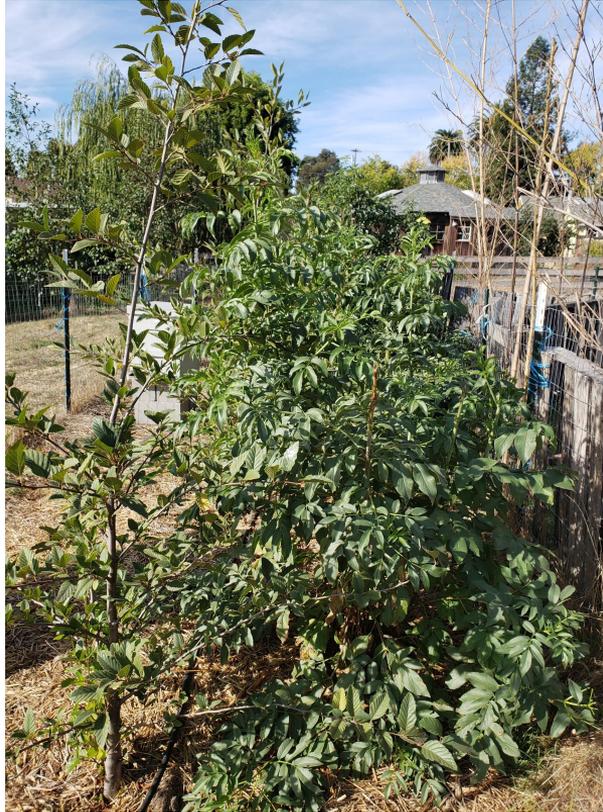
Some very successful hedgerows are:
alder/elderberry/mugwort/primrose/calendula; native willows along seasonal creeks;
redwood/oak/grevillea/flannel bush/spice bush/native hazelnut/

Trees are planted throughout the pastures to add shade, shelter, medicine, anti-parasitic benefits and fodder for the livestock, to improve carbon sequestration, and microbial activity and communication in the soil.

Successful tree plantings:
golden niobe willow, weeping willow, persian mulberry, cork oak, valley oak, live oak, chestnut



Alder/Elderberry Hedgerow year one



New additions:
Calendula
Primrose
Chamomile
Motherwort

Soil Carbon Numbers

<u>Producer</u>	<u>Field</u>	<u># of Samples</u>	<u>Depth (cm)</u>	<u>Avg. Bulk Density (g/cm³)</u>	<u>Avg. Total Carbon (%)</u>	<u>Total Carbon Range (% variance)</u>	<u>Avg. Inorganic Carbon (%)</u>	<u>Total Organic Carbon (%)</u>	<u>Avg. SOM (%)</u>	<u>Avg. Carbon Content (kg/ac-15cm)</u>
Sarah Keiser	Pasture - Site 3	3	0-15	1.287	3.094	0.309	0.0136	3.0804	5.311034483	53055.31744
Sarah Keiser	Pasture - Site 3	3	15-30		1.608	0.287	0.009	1.599	2.756896552	27540.40144
Sarah Keiser	Pasture - Site 3	3	30-45		1.317	0.129	0.0461	1.2709	2.191206897	21889.36597
Sarah Keiser	Pig Area - Site 1	3	0-15	1.214	2.671	0.438	0.0307	2.6403	4.552241379	42895.84409
Sarah Keiser	Pig Area - Site 1	3	15-30		0.809	0.179	0.0381	0.7709	1.329137931	12524.48821
Sarah	Pig	3	30-45		0.478	0.201	0.0453	0.4327	0.746034483	7029.894989

What these Soil Carbon Values Mean

For the **Pasture Site**, your total carbon per acre, down to a depth of 45cm, is **102,485.08 lbs**. In other words, every acre of this particular field has trapped the equivalent amount of carbon contained in **19,120.71 gallons of oil**

For the **Pig Area**, your total carbon per acre, down to a depth of 45cm, is **62,450.23 lbs**. In other words, every acre of this particular field has trapped the equivalent amount of carbon contained in **11,651.38 gallons of oil**.

For the **Radish Site**, your total carbon per acre, down to a depth of 45cm, is **53,782.01 lbs**. In other words, every acre of this particular field has trapped the equivalent amount of carbon contained in **10,034.14 gallons of oil**.

N
1 inch = 30 feet

A CARBON FARM BASE MAP FOR:
WILD OAT HOLLOW FARM
8690 PETALUMA HILL RD, PENNGROVE, CA 94951



Legend

	Existing Tree		Wild Oat Hollow Property Boundary
	Proposed Tree		Streets
	Existing Fencing		5ft Reference Contours
	Existing Hedgerow		
	Proposed Hedgerow		
	Proposed Silvopasture		

Coordinate System: NAD 1983 StatePlane California II FIPS 4042 Feet
 Projection: Lambert Conformal Conic
 Datum: North American 1983
 Units: Foot US
 Scale is 1 inch to 30 ft when printed on 11" by 17" paper.
 Data Sources: Parcels, Contours, Streams, Roads, Building Footprints,
 Land Classification, and DEM from Sonoma Veg Map. Satellite Imagery
 from ESRI.
 Produced by Hiroshi Tomita on 6/7/2018

Unique products that generate revenue . . .



Goat milk soap and lotion, yarn, raw wool, meat, eggs. livestock & knowledge (classes & consulting).
Finding a way to work within regulations and to utilize waste products in revenue building

Working with Youth

SSU Ecology classes come to Wild Oat Hollow to understand Carbon Farming, plant root depth and plant identification. Understanding soil from observing the plants that grow there.

Working with several school garden educators to add carbon farming to their curriculum and incorporate animals into their programs.

Working towards getting a 'walking field trip' organized with Penngrove 3rd graders annually. To help encourage a walking way of life and an experience of carbon usage versus sequestering



The Fibershed Carbon Farm Cohort

Working with Richard King to understand rotational grazing and plant rest time. To help with troubleshooting through limitations and hurdles

Chatting with Willy to determine the best fencing options for pastures we currently graze and how to plan out future pastures

Learning a more strategic approach to hedgerows and plantings

Collaboration at its best.