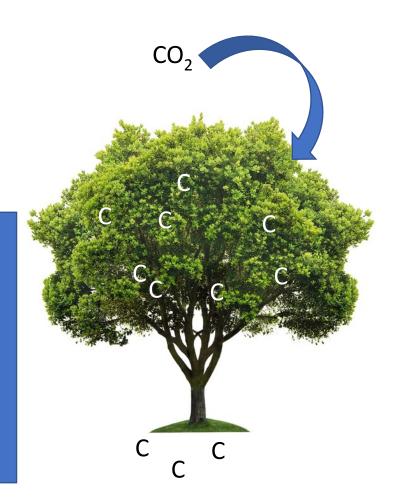
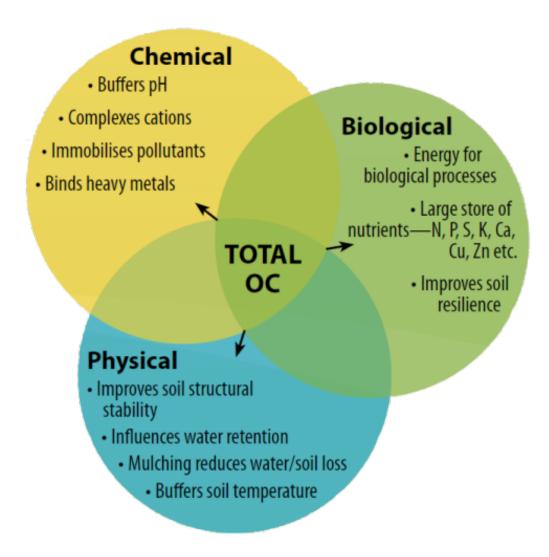


What is Carbon Farming?

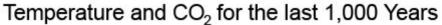
Carbon farming involves implementing agricultural practices to improve the rate at which CO_2 is removed from the atmosphere and converted to plant material and soil organic matter.

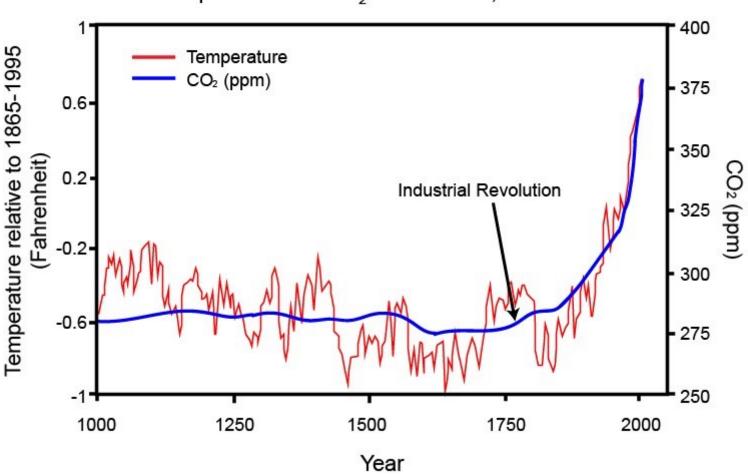
























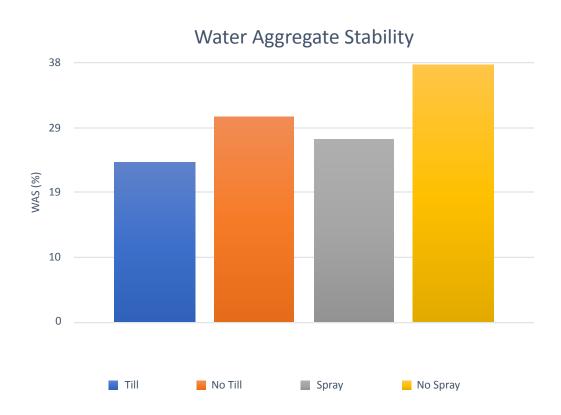




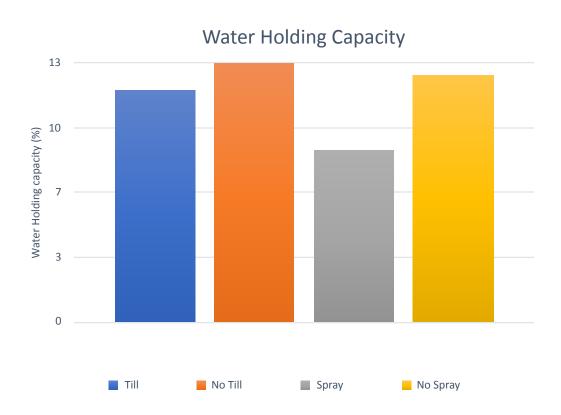




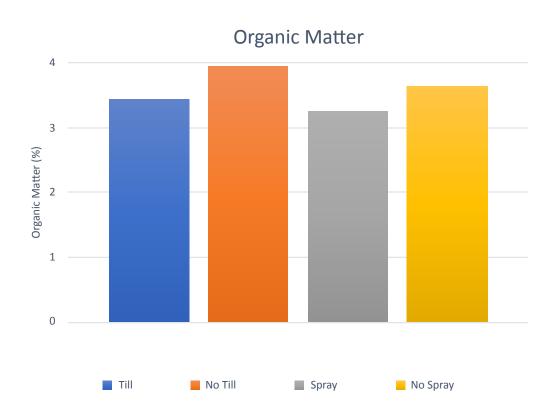




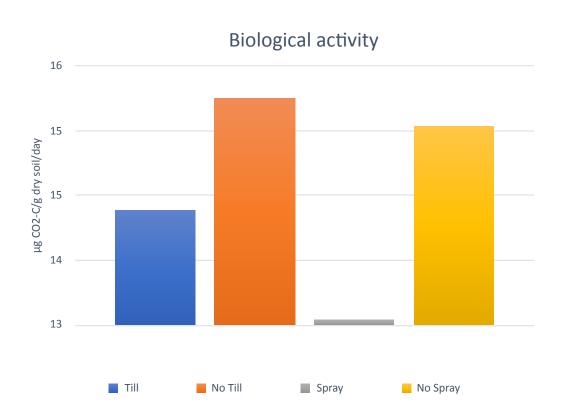




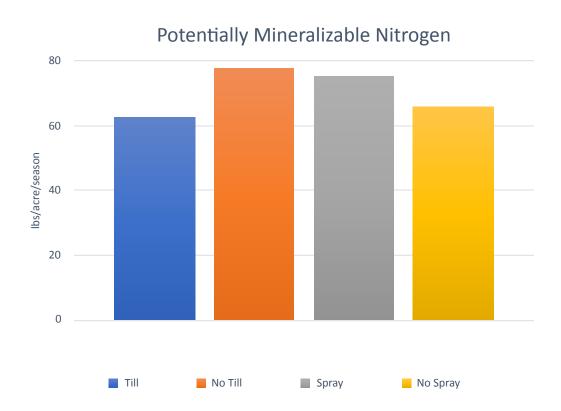


















- Mulching/compost application
- •Residue and Tillage Management, No Till/ Strip Till/Direct Seed
- Multi-Story Cropping
- Windbreak/Shelterbelt Establishment
- Forage and Biomass Planting
- Nutrient Management
- Tree/Shrub Establishment
- Forest Stand Improvement
- Riparian Restoration
- •Riparian Forest Buffer
- Vegetative Barrier
- Windbreak/Shelterbelt Renovation
- Herbaceous Wind Barriers
- Critical Area Planting
- Residue and Tillage Management
- Grassed Waterway
- Hedgerow Planting
- Cross Wind Trap Strips Conservation
 Cover
- Wetland Restoration





Step 3





Carbon and greenhouse gas evaluation for NRCS conservation practice planning

Recommended use of COMET-Planner: This evaluation tool is designed to provide generalized estimates of the greenhouse gas impacts of conservation practices and is intended for initial planning purposes Site-specific conditions (not evaluated in this tool) are required for more detailed assessments of greenhouse gas dynamics on your farm. Please visit COMET-Farm if you would like to conduct a more detailed analysis

Legacy Tool California Healthy Soils Tool



Begin by naming your project and selecting your state and county Step 1

Project Name:	State:	County:		
	CA	▼ Nap	a	

Step 2 Select the class of conservation practices that best describes the practice you would like to evaluate







Woody Plantings





Cropland To Herbaceous Cover

Restoration Of Disturbed Lands

Select a NRCS Conservation Practice Standard and a Practice Implementation that best describes your system. You may add multiple practices. If you would like to add a practice under a different class of practices, return to Step 2.



COMET-Planner Carbon Sequestration and Greenhouse Gas Estimation Report

Project Name: State: CA County: Napa

Date Created: 5/2/2019 4:11:22 PM

	Enter Acreage	Carbon Dioxide	Nitrous Oxide	Methane	Total CO ₂ - Equivalent
NRCS Conservation Practices					
Residue and Tillage Management - No-Till (CPS 329) - Intensive Till to No Till or Strip Till on Irrigated Cropland	10	2	0	0	2
Residue and Tillage Management - No-Till (CPS 329) - Reduced Till to No Till or Strip Till on Irrigated Cropland	10	2	0	0	2
Nutrient Management (CPS 590) - Replace Synthetic N Fertilizer with Compost (CN ratio 10) on Irrigated Croplands	10	3	0	0	3
Cover Crop (CPS 340) - Add Legume Seasonal Cover Crop to Irrigated Cropland	10	9	-4	0	5
Tree/Shrub Establishment (CPS 612) - Conversion of Annual Cropland to a Farm Woodlot	10	188	0	N.E.2	188
Hedgerow Planting (CPS 422) - Replace a Strip of Cropland with 1 Row of Woody Plants	10	81	0	N.E.2	81
	Total	285.00	-4.00	0.00	281.00

For more information on how these estimates were generated, please visit www.comet-planner.com.



¹Negative values indicate a loss of carbon or increased emissions of greenhouse gases

²Values were not estimated due to limited data on reductions of greenhouse gas emissions from this practice

COMET-Planner Carbon Sequestration and Greenhouse Gas Estimation Report

Project Name: State: CA County: Napa

Date Created: 5/2/2019 4:11:22 PM

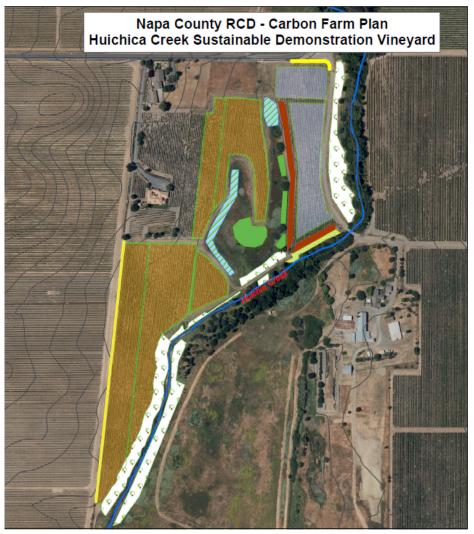
	Enter Acreage	Carbon Dioxide	Nitrous Oxide	Methane	Total CO ₂ - Equivalent
NRCS Conservation Practices					
Residue and Tillage Management - No-Till (CPS 329) - Intensive Till to No Till or Strip Till on Irrigated Cropland	10	2	0	0	2
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	Total	285.00	-4.00	0.00	281.00

For more information on how these estimates were generated, please visit www.comet-planner.com.

Equivalent to about 60 typical passenger cars



¹Negative values indicate a loss of carbon or increased emissions of greenhouse gases
2Values were not estimated due to limited data on reductions of greenhouse gas emissions from this practice



Current Practices

Blocks A-E: Alternate Row Till



Block F & G - No Till



5 Foot Contour



Huichica Creek

Planned Conservation Practices

Compost Application in all vineyard blocks



327, Conservation Cover



380, Tree and Shrub Planting



390, Riparian Restoration



422, Hedgerow



657, Wetland Restoration



Alternate-Row Tillage to No-Till



Carbon Farm Practices (NRCS Practice)

- 1. Riparian Restoration (390
- 2. Hedgerow Planting (422)
- 3. Conventional Tillage to No Tillage (329)
- 4. Compost Application Mulching (484)
- Cover Crop Establishment (340)
- 6. Multistory Cropping (379)
- 7. Windbreak Establishment (380)
- 8. Wetland Restoration (657)





