ALAMEDA COUNTY RESOURCE CONSERVATION DISTRICT

CREEKS & LIVESTOCK: CLIMATE SMART RESTORATION IN ALAMEDA COUNTY



For farmers, ranchers, conservation planners, and practitioners

The Alameda County Resource Conservation
District invites you to a discussion of Climate
Smart Restoration solutions with Point Blue
Conservation Science's STRAW (Students
and Teachers Restoring a Watershed)
program and Copper Moon Ranch. We will
discuss restoration in the context of Carbon
Farming, the importance of planning for
future conditions, and student engagement
in hands-on restoration of working lands.

RSVP:

Click <u>here</u> to register.

Link: https://www.eventbrite.com/e/creeks-and-livestockclimate-smart-restoration-in-alameda-county-tickets-157990131737

This event will be held on Zoom. Details will be sent upon registration.

Questions? allison.rodacker@acrcd.org | 925-453-3862

JUNE 29, 2021 12:30-1:30PM PST

Virtual event

ORGANIZER



PRESENTERS



Copper Moon Boer Goats



RESOURCE CONSERVATION DISTRI





CALIFORNIA DEPARTMENT OF FOOD & AGRICULTURE

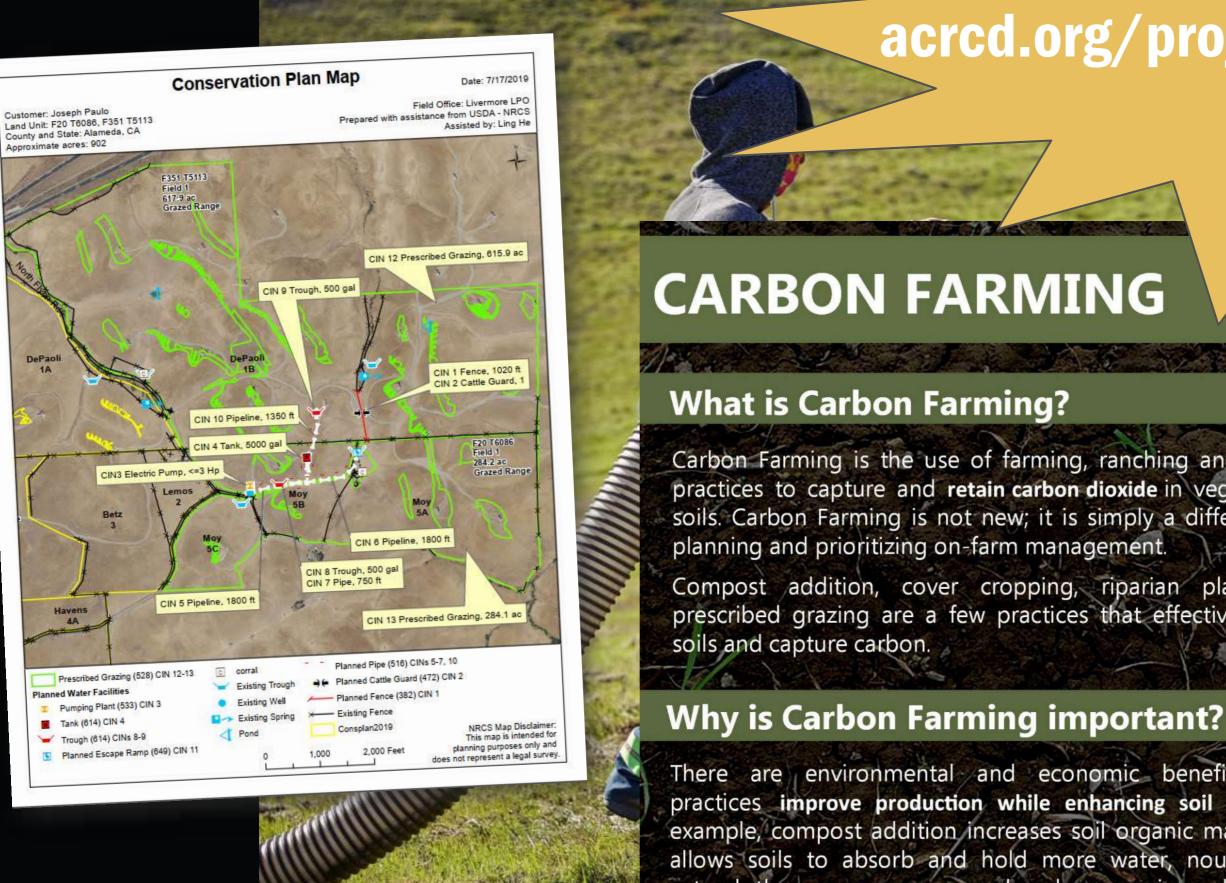




Copper Moon Boer Goats







acrcd.org/projects/carbon-farming/

Alameda County **Resource Conservation District**

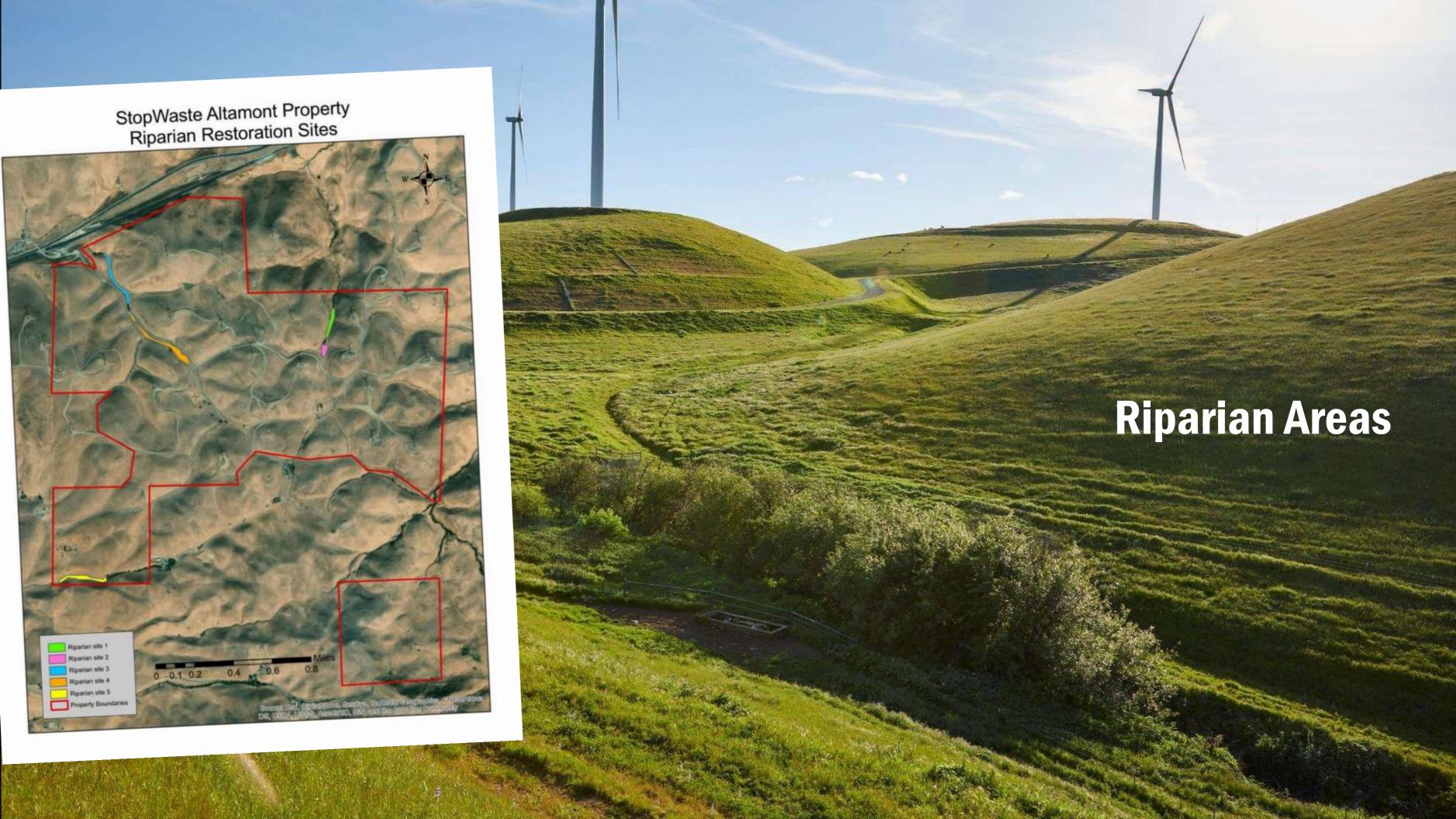
Carbon Farming is the use of farming, ranching and ecological practices to capture and retain carbon dioxide in vegetation and soils. Carbon Farming is not new; it is simply a different way of

Compost addition, cover cropping, riparian planting, and prescribed grazing are a few practices that effectively improve

There are environmental and economic benefits. Certain practices improve production while enhancing soil health. For example, compost addition increases soil organic matter, which allows soils to absorb and hold more water, nourish plants, extend the green season, and reduce erosion, all of which provide economic benefits.







Riparian Forest Buffer (CPS 391)

Replace a Strip of Grassland Near Watercourses or Water Bodies with Woody Plants

StopWaste Altamo Riparian Restora





NRCS Conservation Practice Standard Summary

DEFINITION: An area predominantly trees and/or shrubs located adjacent to and up-gradient from watercourses or water bodies. PURPOSE:

- Increase carbon storage in plant biomass and soils
- Reduce excess amounts of sediment, organic material, nutrients and pesticides in surface runoff and reduce excess nutrients and other chemicals in shallow ground water flow
- Create or improve riparian habitat and provide a source of detritus and large woody debris
- Reduce pesticide drift entering the water body
- Restore riparian plant communities

CONDITIONS WHERE PRACTICE APPLIES: Riparian forest buffers are applied on areas adjacent to permanent or intermittent streams, lakes, ponds, and wetlands. They are not applied to stabilize stream banks or shorelines.

COMET-Planner Practice Implementation Information

COMET-Planner estimates for riparian forest buffer establishment assume replacing rangeland or managed pasture with unfertilized, woody plants. Impacts on greenhouse gases are largely driven by woody biomass carbon accumulation. Estimates apply only to the portion of the field where woody

GHG Estimation Methods

Greenhouse gas emissions were estimated using a sample-based, metamodeling approach with COMET-Farm, which employs the USDA entity-scale inventory methods (Eve et al. 2014). GHG reduction estimates represent the average impact of a conservation practice compared to baseline conditions, over a range of soils, climate and cropland management within multi-county regions defined by Major Land Resource Areas (USDA-NRCS 2006). Woody biomass accumulation rate models were derived at the species and genus level from the USDA Forest Inventory and Analysis database. An example of the model development process is described in Ziegler et al. 2016.

Estimates are not meant to apply to any specific site conditions but rather represent the range of expected values to be found over the multi-county region and reflect the assumptions stated.

Creek Carbon

Mitigating Greenhouse Gas Emissions through Riparian Revegetation



University of California Cooperative Extension









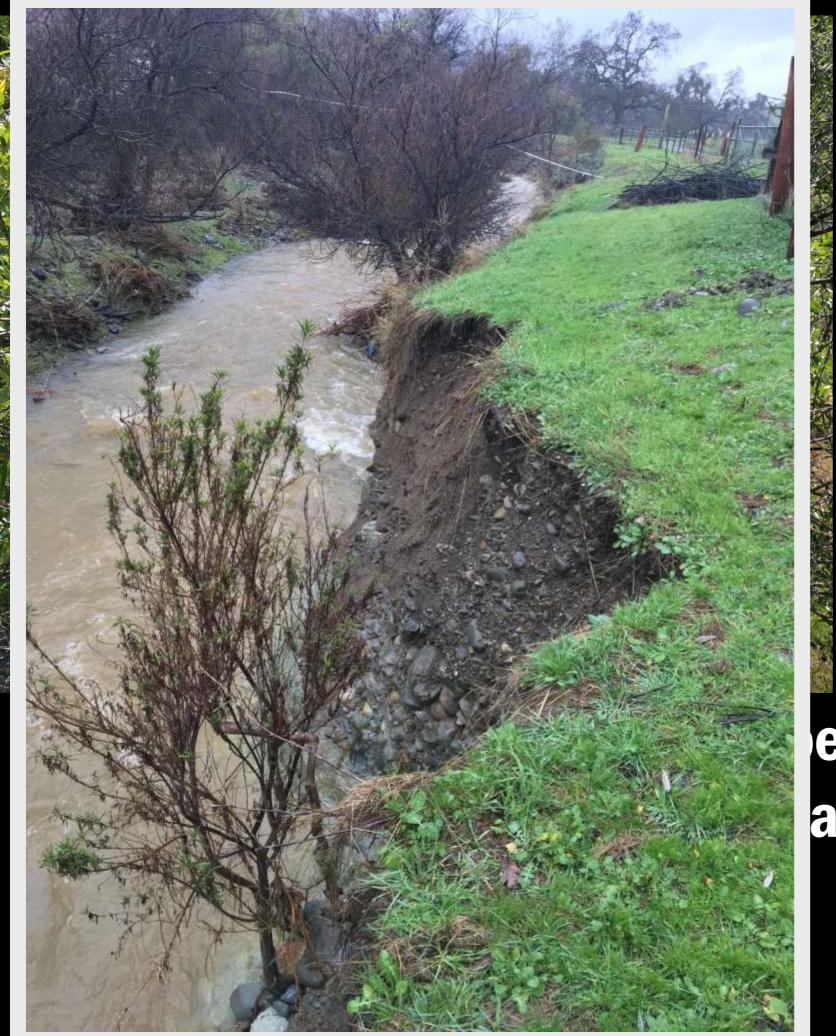
2015 Copper Moon 2017 Ranch



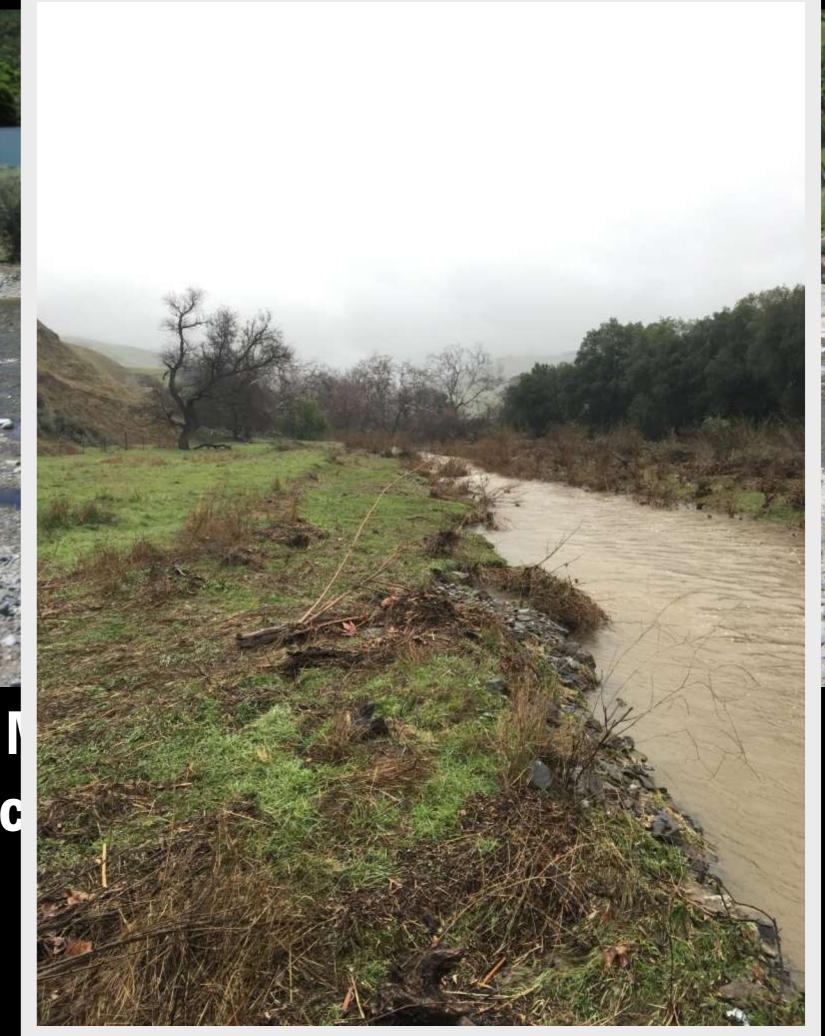


2017

2015 Copper Moon Ranch











Copper Moon Boer Goats







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U.S. Environmental Protection Agency

Pacific Southwest/Region 9

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EQIP Environmental Quality Incentives Program

Strategic Plan for the U.S. Fish & Wildlife Service

Partners for Fish and Wildlife Program Pacific Southwest Region

FY 2017-2021











Copper Moon Boer Goats



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