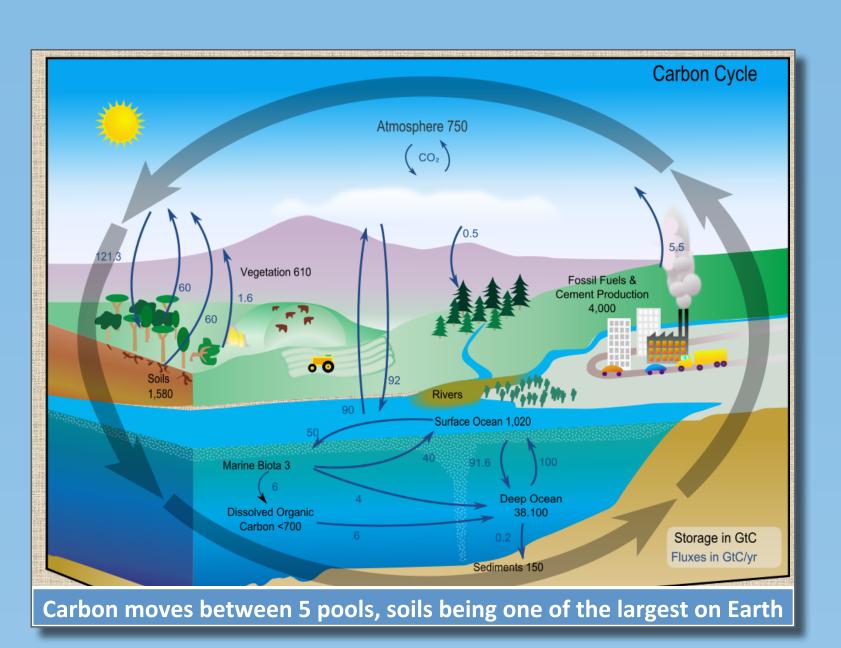
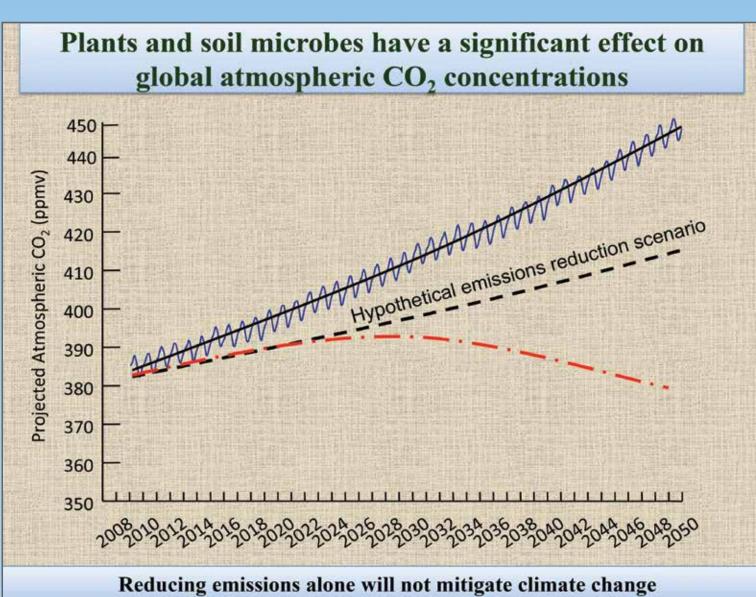
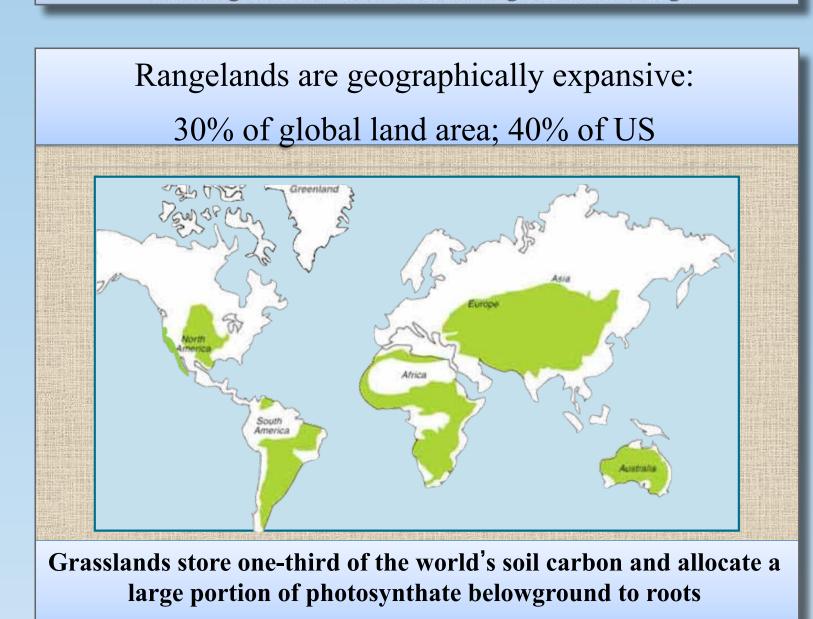
## Marin Carbon Project Land Management Can Increase Carbon in Soils

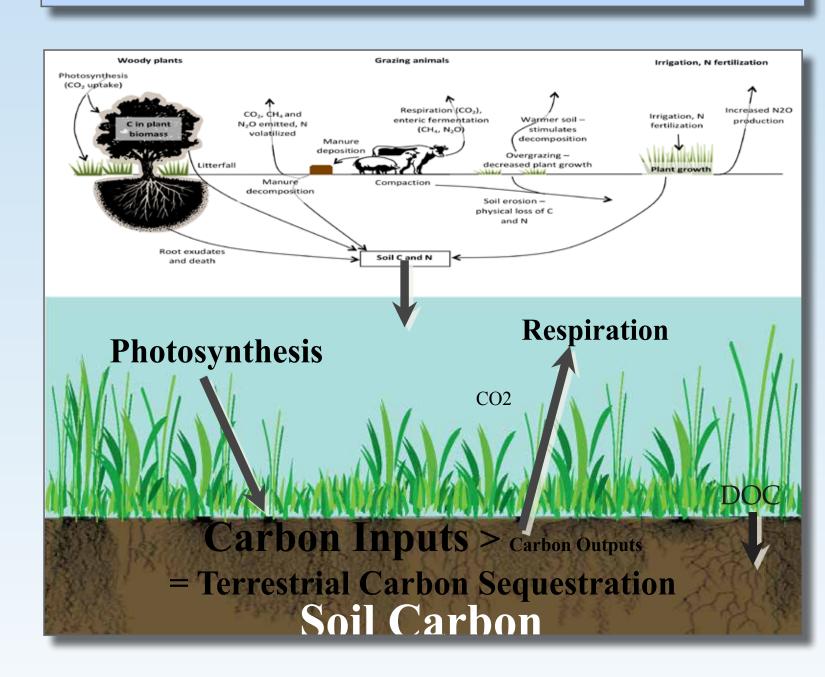
A collaboration of Marin Agricultural Land Trust, Marin County Agricultural Commissioner, Marin Organic, Marin Resource Conservation District, Natural Resources Conservation Service (USDA), Nicasio Native Grass Ranch, UC Berkeley, UC Cooperative Extension (in partnership with the Carbon Cycle Institute and Environmental Defense Fund)

## Introduction – Climate, Carbon, and Soils

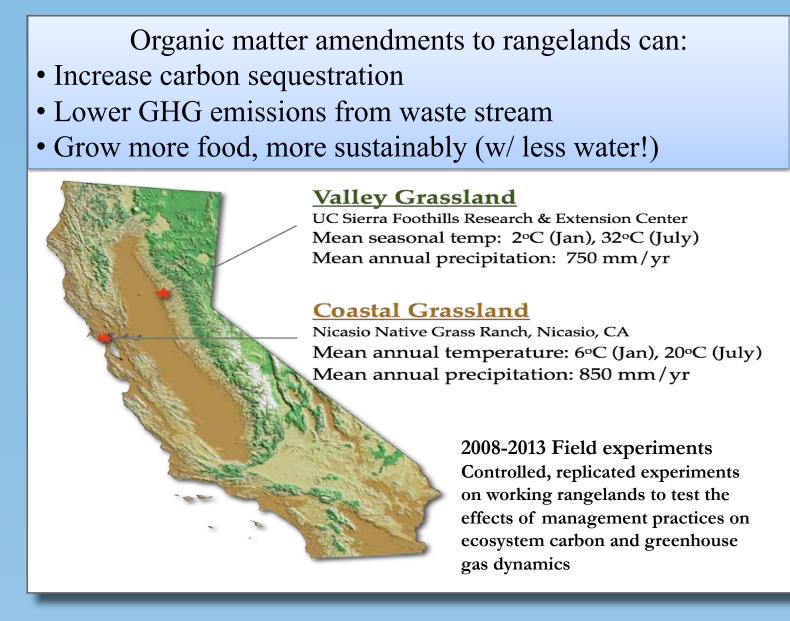


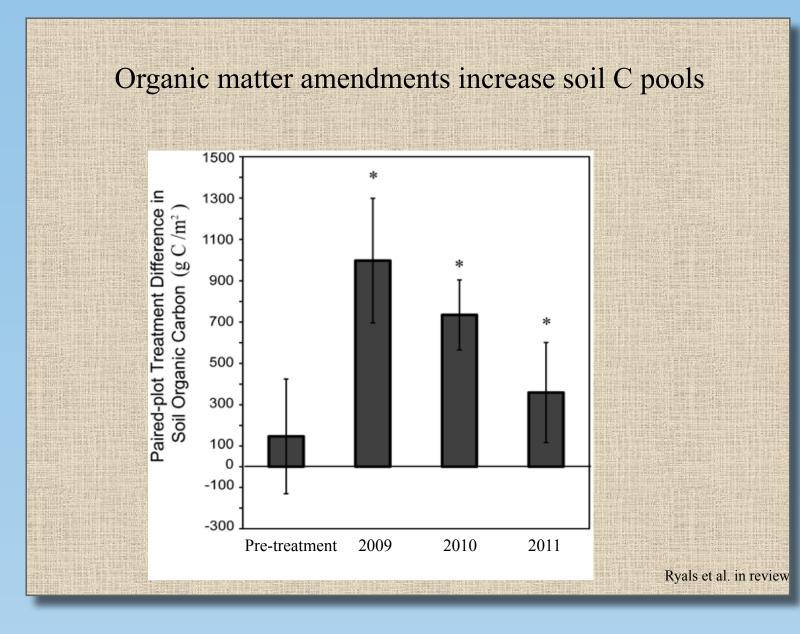


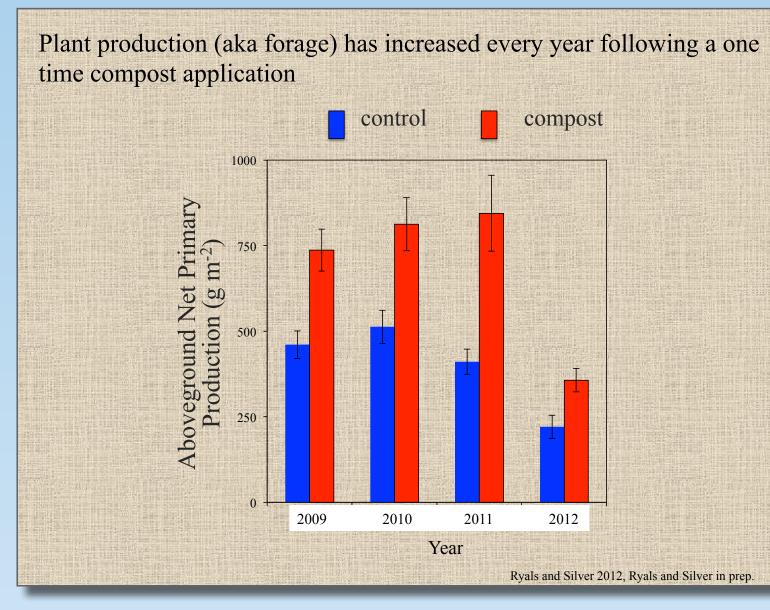


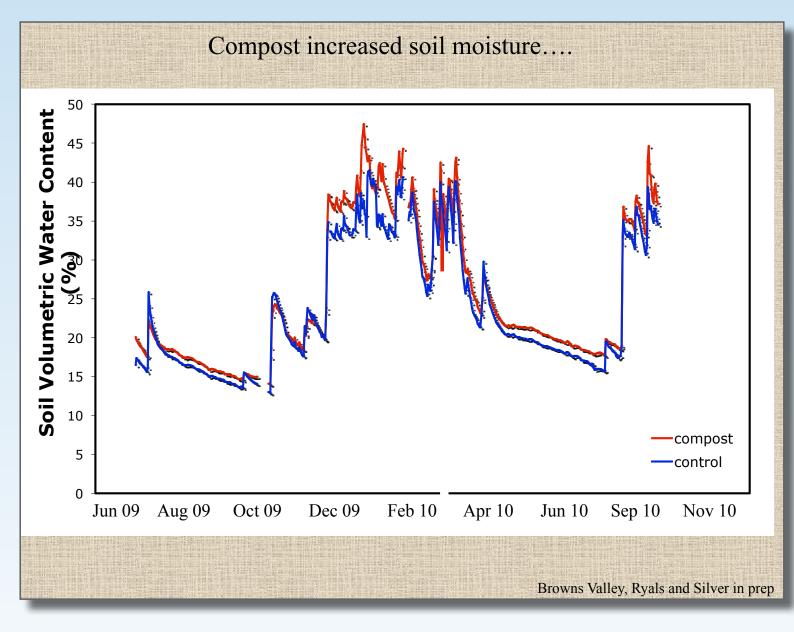


#### Research and Findings

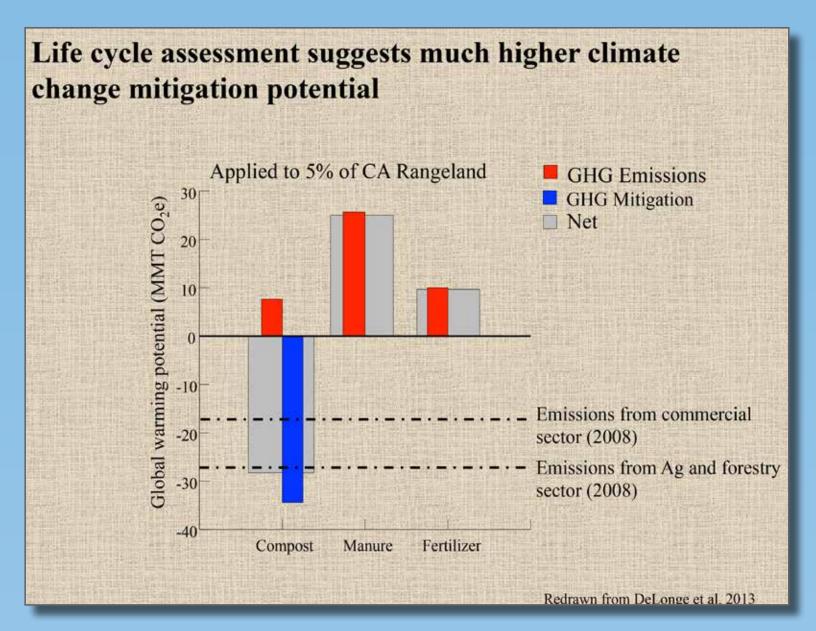


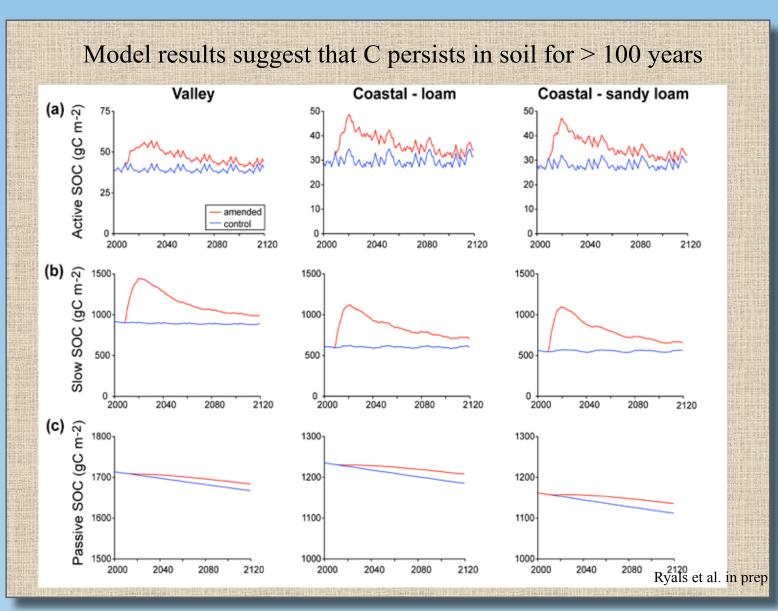




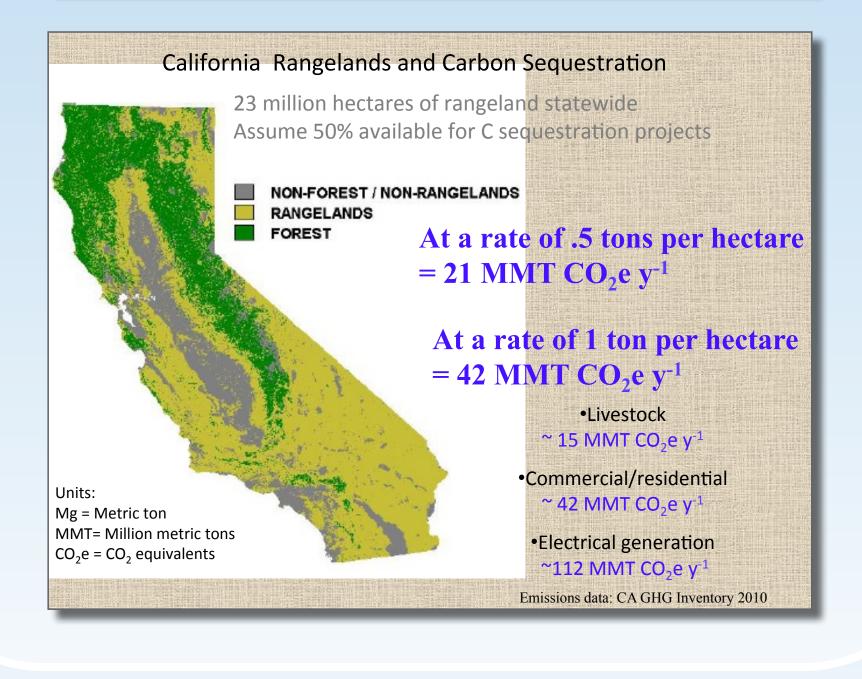


#### Implications





# Scalability: Right Now Application of compost on 6% of CA rangelands (8 million acres) Divert organic waste from landfills (producing 7 million tons compost) ¼ inch application rate covers 6% of the land area; apply 1x per 10 years = 6 million metric tons (MMT) CO2e y-1 (without incl compost C) = 21 MMT CO2e y-1 offset from diversion of organic waste from landfill Scalability and Availability of Compost, 2020 One quarter of the rangeland area in California: = 23 million metric tons (MTT) CO2e (w/o) incl compost C) = 337 MMT of CO2e y-1 (w/ compost C addition) Potential compost production: 27 to 33 MMT y-1 — Enough to reapply to 25% of California's rangelands every 17-40 years



### Implementation and Policy

