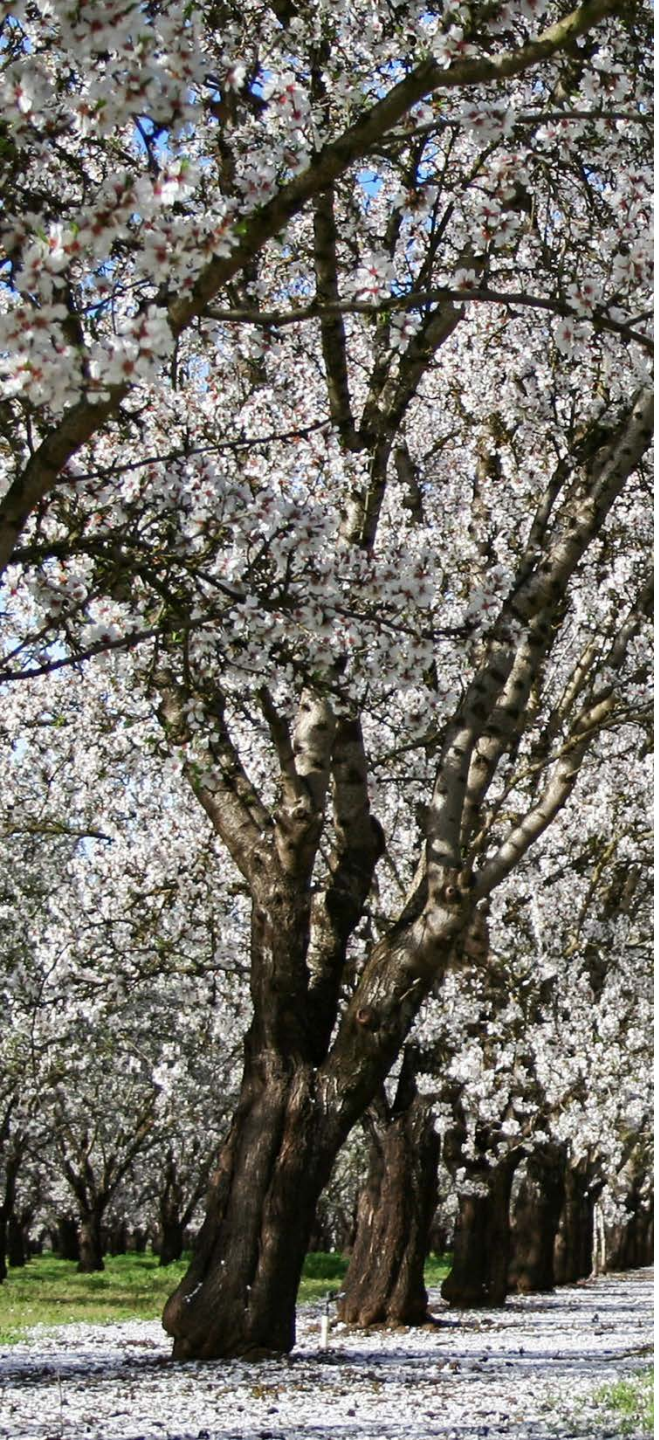


KORONIVIA JOINT WORK ON AGRICULTURE

KAREN ROSS, SECRETARY

CALIFORNIA DEPARTMENT OF FOOD AND AGRIUCLTURE

Bonn, Germany

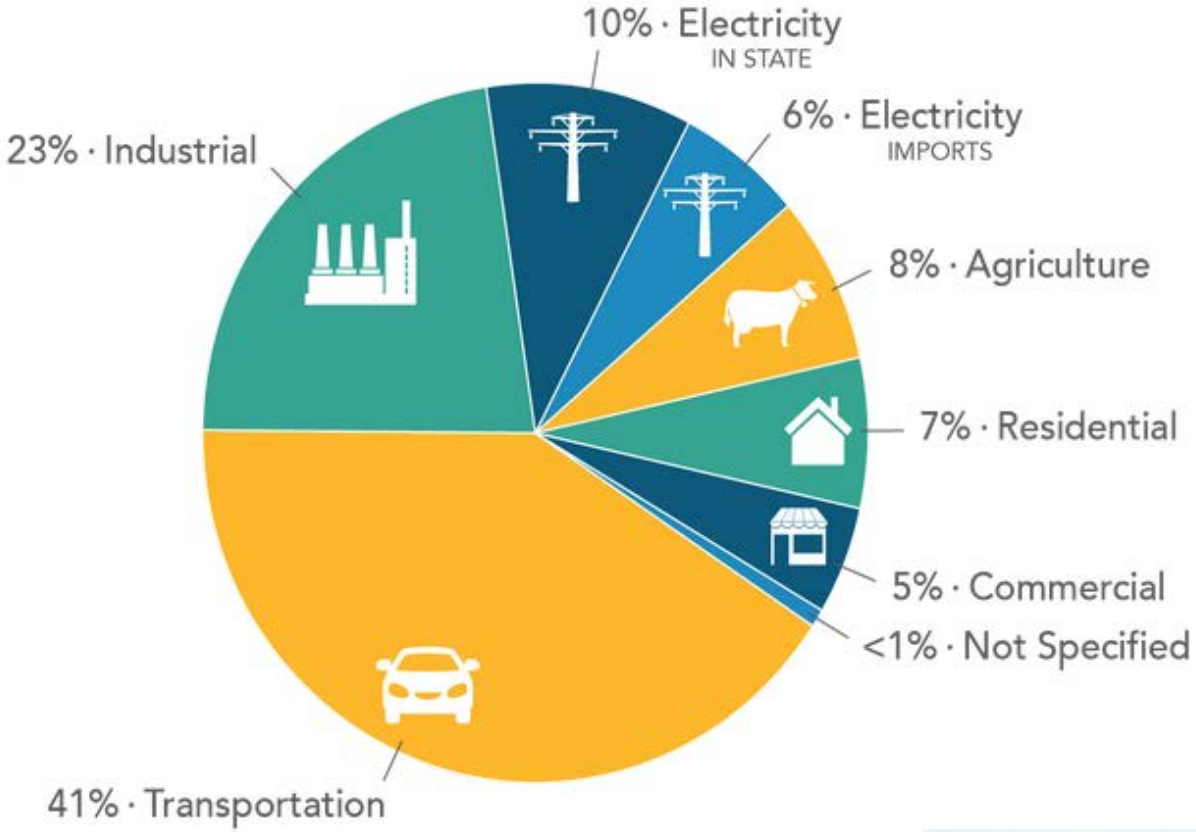
June 18-19, 2019

cdfa

CALIFORNIA DEPARTMENT OF FOOD & AGRICULTURE

CALIFORNIA IS THE 5TH LARGEST ECONOMY IN THE WORLD

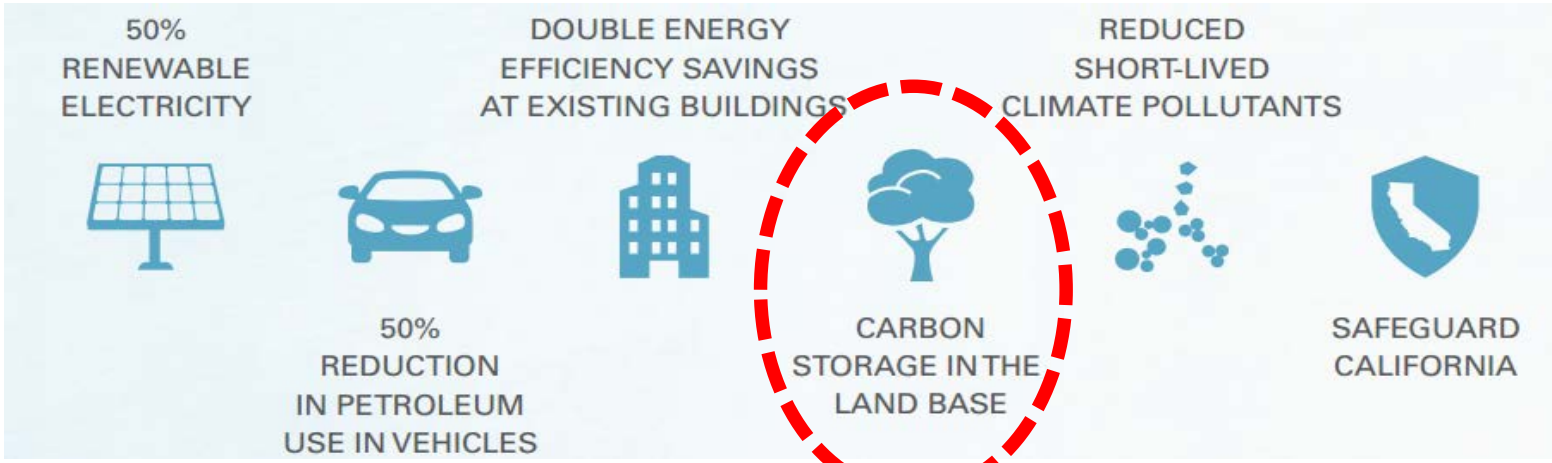
- **Leading Producer of Specialty Crops in the Nation**
- **400+ Crops/Commodities**
- **Innovation/Technology**
- **~77,000 Farms**
- **Leading Agricultural Universities**



429.4 $MMTCO_2e$
2016 TOTAL CA EMISSIONS

GHG reduction goals set by Governor(s):

- 80% reduction below 1990 levels by 2050 (2006)
- 40% reduction below 1990 levels by 2030 (2015)



To maintain our natural and working lands as a carbon sink, California strives to **at least double the pace and scale** of State-funded land restoration and management activities through 2030 & beyond.

Cultivated lands & rangelands

5x

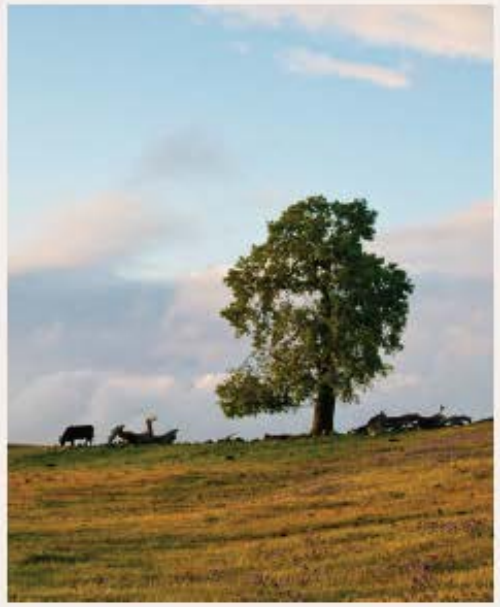
Acres in soil conservation practices

Forested lands

2x

Pace and scale of forests managed or restored

Savanna & woodlands



3x

Pace of reforestation of oak savannas and riparian areas

Wetlands & seagrass

2x

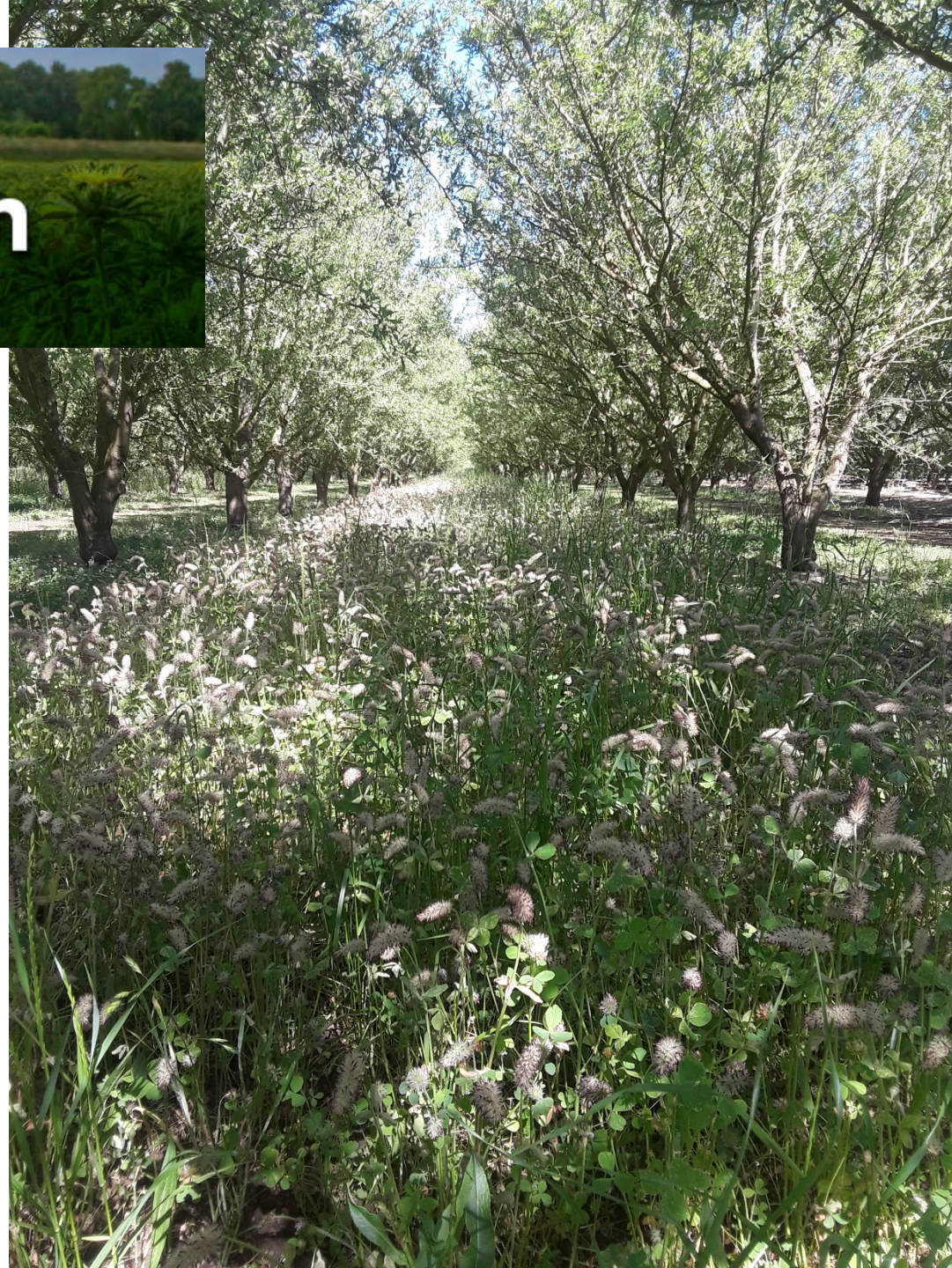
Rate of wetland and seagrass restoration

The California Healthy Soils Initiative is a collaboration of partners and state departments to promote the development of healthy soils on California's farmlands and ranchlands

Agronomist Valerie Bullard shows CDFA and industry representatives a radish produced with healthy-soils practices

THE OFFICE OF ENVIRONMENTAL FARMING & INNOVATION

healthy soils program

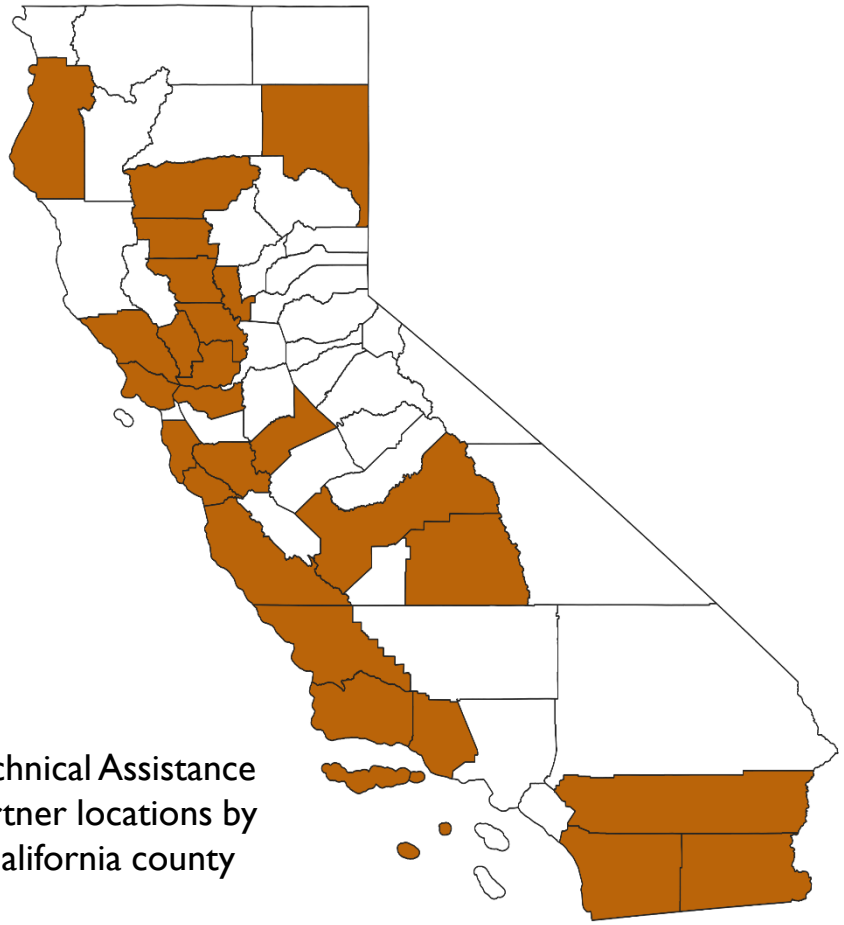


The financial incentive program allows growers to try and learn about management practices that they may have not done before or implemented in parts of their agricultural operation

First in the nation to tie soil management practices with carbon sequestration in soils with the scientific assistance of USDA NRCS

Contributes to climate change adaptation, GHG mitigation and agricultural sustainability

317 projects to date
$17.95 million in funding
33,451 acres
39,674 MTCO2 eq/year reduction
Proposed $28 million in future budget
Uses GGRF and bond funding
Quantified using COMET-Planner



Technical Assistance Partner locations by California county

Farmers and ranchers need assistance with:

- Filling out required government application
- Filling out required GHG quantification tool
- Reporting on the project data (soil results)
- Telling their story

Program funded $280,000 in technical assistance funding to universities, conservation organizations and non-profit organizations

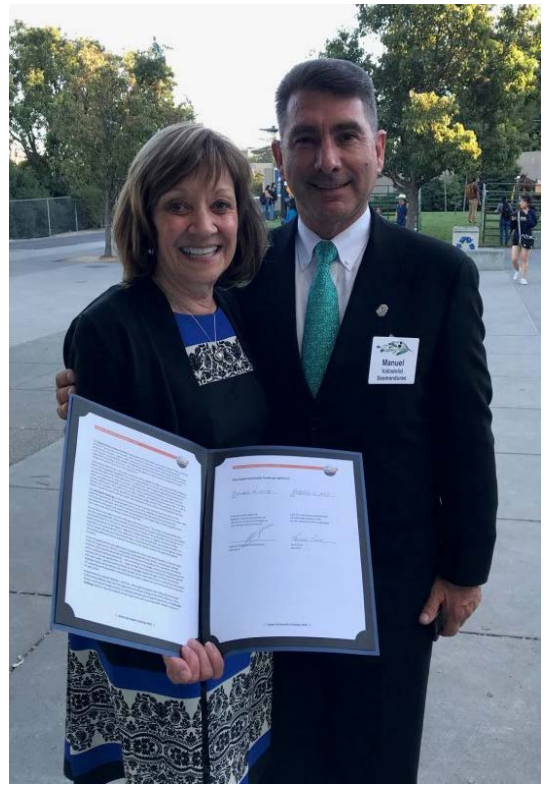
$1.2 million to fund 9 outreach community specialists at the University of Agriculture and Natural Resources Cooperative Extension

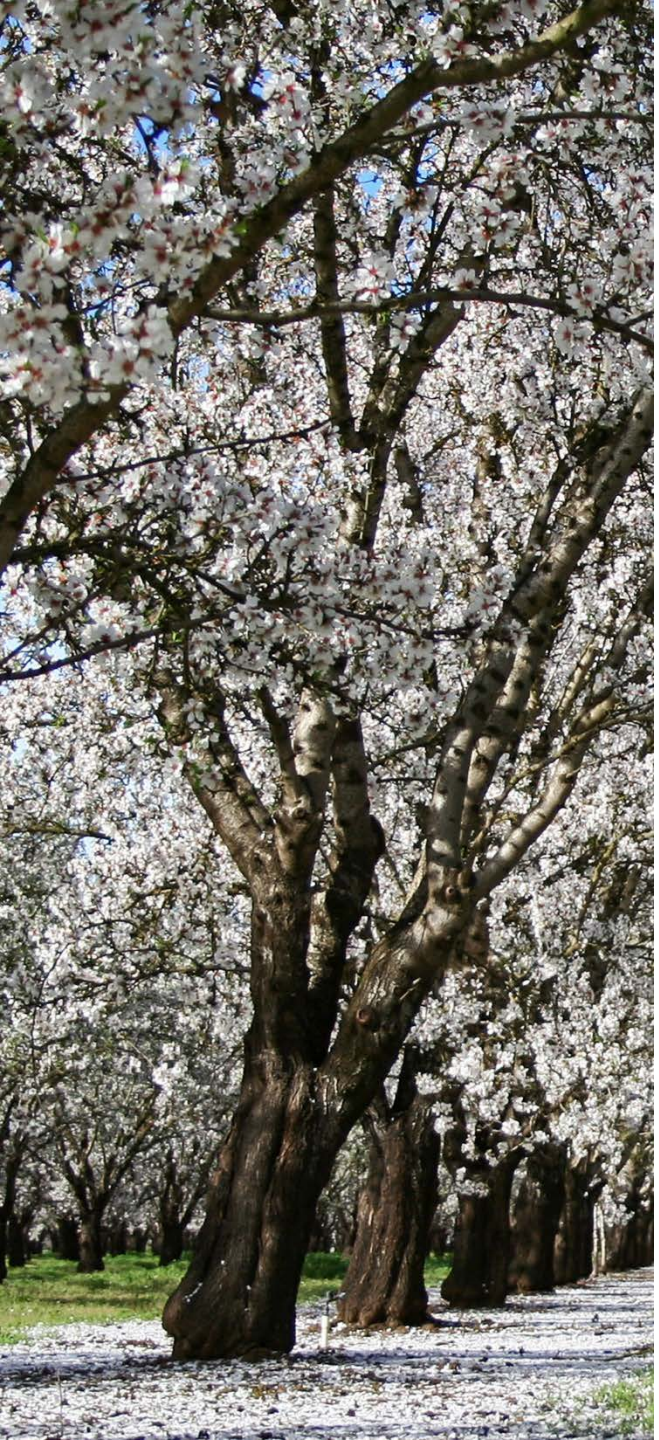
- **Webinars**
- **Climate Smart Delegation Visits:**
  - **Netherlands**
  - **Australia**
  - **Israel**
  - **Chile**

Netherlands

France

Mexico





THANK YOU FOR YOUR ATTENTION

Karen Ross

secretary.ross@cdfa.ca.gov

cdfa

CALIFORNIA DEPARTMENT OF
FOOD & AGRICULTURE

CDFA Climate Smart Agriculture Website:
https://www.cdfa.ca.gov/climatesmartag/

COMET-Planner Technical Report:
http://bfuels.nrel.colostate.edu/beta/COMET-Planner_Report_Final.pdf

UC ANR Climate Smart Agriculture:
http://ciwr.ucanr.edu/Programs/ClimateSmartAg/

HSP AGRICULTURAL MANAGEMENT PRACTICES

I. Cropland Management Practices

1) Cover Crop (USDA NRCS CPS 340)
2) Conservation Crop Rotation (USDA NRCS CPS 328)
3) Mulching (USDA NRCS CPS 484)
4) Nutrient Management (USDA NRCS CPS 590) (15% reduction in fertilizer application *only*)
5) Residue and Tillage Management – No-Till (USDA NRCS CPS 329)
6) Residue and Tillage Management – Reduced Till (USDA NRCS CPS 345)
7) Strip Cropping (USDA NRCS CPS 585)
8) Compost Application Practices (application rates consistent with those specified in CDFA Compost Application White Paper)
   - Compost Application to Annual Crops
     - Compost Purchased from a Certified Composting Facility
     - On-farm Produced Compost *(compliant with all requirements in the RGA)*
   - Compost Application to Perennials, Orchards and Vineyards
     - Compost Purchased from a Certified Composting Facility
     - On-farm Produced Compost *(compliant with all requirements in the RGA)*

III. Woody Cover Establishment

1) Alley Cropping (USDA NRCS CPS 311)
2) Hedgerow Planting (USDA NRCS CPS 422)
3) Multi-story Cropping (USDA NRCS CPS 379)
4) Riparian Forest Buffer (USDA NRCS CPS 391)
5) Tree/Shrub Establishment (USDA NRCS CPS 612)
6) Windbreak/Shelterbelt Establishment (USDA NRCS CPS 380)

II. Herbaceous Cover Establishment

1) Conservation Cover (USDA NRCS CPS 327)
2) Contour Buffer Strips (USDA NRCS CPS 332)
3) Field Border (USDA NRCS CPS 386)
4) Filter Strip (USDA NRCS CPS 393)
5) Forage and Biomass Planting (USDA NRCS 512)
6) Grassed Waterway (USDA NRCS CPS 412)
7) Herbaceous Wind Barrier (USDA NRCS CPS 603)
8) Riparian Herbaceous Cover (USDA NRCS CPS 390)
9) Vegetative Barriers (601) (USDA NRCS CPS 601)

IV. Grazing Lands Practices

1) Compost Application to Grassland (application rates consistent with those specified in CDFA Compost Application White Paper)
   - Compost Purchased from a Certified Composting Facility
   - On-farm Produced Compost *(compliant with all requirements in the RGA)*
2) Prescribed Grazing (USDA NRCS CPS 528)
3) Range Planting (USDA NRCS CPS 550)
4) Silvopasture (USDA NRCS CPS 381)