

California Department of Food and Agriculture
2017 Healthy Soils Program (HSP) Incentives Program Funded Projects – Updated April 3, 2018

Recipient Organization	Project Description	Award Amount*	Estimated Cost Share	County	GHG Reduction Estimation** (tonnes CO ₂ eq/year)
Acorn Alegria Winery	501-foot hedgerow will span the two adjacent parcels that comprise the vineyards. Hedgerow will include California native shrubs that attract and provide habitat for birds, bees, and beneficial insects. The hedgerow will also protect neighbors from noise, dust, and spray from the vineyard.	\$3,075.94	\$1,000.00	Sonoma	0.8
Alexandre EcoDairy Farms	The Dairy will heal the soil through continued application of compost and planting of cover crops, while creating new practices to install riparian buffers and herbaceous vegetative that actively protect and promote soil health.	\$50,000.00	\$114,169.44	Del Norte	783.9
Robert E. Bauer	The project will plant grass cover crop to stabilize the soil, reduce winter runoff, and increase the retention of beneficial nutrients for the walnut orchard.	\$5,052.80	\$10,000.00	Merced	4.0
Calcareous Vineyard LLC	The Recipient will implement soil practices including reduced/no-till, cover cropping, mulch and compost application. Project area will correlate to planted vineyard acreage and adjacent plots of concern, roughly 45 acres. The project will decrease erosion from winter rains, prevent spread of weeds, regulate soil temperature, increase biological health of soil, increase nutrients available to crop, reduce labor costs, reduce fuel dependency, increase water infiltration, improve biodiversity.	\$11,898.05	\$17,200.00	San Luis Obispo	70.1
Capay Hills Orchard	The Recipient will implement Soil Management - Compost, no Till, cover crops Field Border Development Hedgerow Planting.	\$4,281.00	\$3,100.00	Yolo	57.0
Nancy E Osborne (Capay Rancho Herb Co)	Since 2013, the Capay Rancho Herb Co. sells culinary and medicinal herbs and fruit. The operation seeks to become a viable, sustainable business and a model for other small acreage farms. Currently, permaculture principles are used in the operation and has been registered organic with the Tehama County since 2014. The business has been working to minimize water usage by adding compost; however, limited resources have prohibited the expanded use of compost, mulch, hedgerows and restoring riparian area along the Sacramento River in a way that captures more carbon, builds native habitat, and reduces atmospheric greenhouse gases (GHG).	\$16,491.55	\$5,700.00	Tehama	12.7
Charles E. Starr	The project will plant cover crop and reduce till by tilling only every other row.	\$25,472.48	\$17,570.00	San Joaquin	31.0
Deep Springs College	The Recipient will add hedgerow, compost application to alfalfa fields. Hedgerow establishment will reduce soil loss due to wind erosion, maintain soil structure, and increase moisture retention in soil. Yearly compost applications will help to increase organic matter and carbon content in soil, increase soil health, and increase moisture retention in soil. In combination, these two projects will work in tandem to not only reduce water requirements and increase yield for our crops, but also increase carbon uptake in the soil and contribute to increasing soil health. The Recipient will establish a woody hedgerow along the northernmost edge of the field, approximately 1400 feet in length. Windbreak and compost applications will increase the yields and decrease other inputs (water and fertilizer) on alfalfa fields.	\$44,116.00	\$21,000.00	Inyo	556.0
Ronald Dewey (Dewlson Farm)	The project will provide a long term comprehensive program to improve the soil quality, reduce soil and wind erosion on a 40-acre lemon orchard referred to as Dewlson Farm. The farm consists of two nominal 20-acre parcels. The first parcel consists of approximately 19 acres of four-year-old lemon trees. The second parcel consists of approximately 19 acres of newly planted lemon trees less than one year old. The project will install a 15-foot strip of cover crop between each row of trees on both parcels. The project will install a single line of Hybrid Poplar wind break trees along 1,593 feet of the West and North boundaries of Lot 154. The project will also install 630 feet of Hedgerow along the North boundary of lot 154.	\$13,270.95	\$10,897.00	Santa Barbara	15.0
Rock N Almonds	A three-year project to annually apply compost as the primary source of nutrients and a cover crop for 67 acres of an organic and 169 acres of conventional almond orchards. The purpose is to improve soil health, water retention, soil permeability, carbon sequestration, biodiversity and reduce greenhouse gasses.	\$49,999.52	\$127,630.00	Merced	1088.0
Dragon Spring Farm	The project will implement soil management in the forms of mulching, reduced tilling, cover crop application, and compost application of our key perennial crops and annual crop fields.	\$4,509.63	\$1,900.00	San Luis Obispo	11.3
Naturipe Berry Growers, Inc.	The Azevedo ranch, jointly owned by the Nature Conservancy and the Monterey County Ag. and Historical Land Conservancy, encompasses 74.55 acres of mostly arable land bordering the Elkhorn Slough. Historically this ranch has served as a study site for sustainable farming in a sensitive wetland watershed. For 25 years, Elkhorn Berry Growers has farmed the 34.6-acre northern portion of the ranch. Over that time, it has successfully implemented management practices to mitigate water and nutrient runoff, increase organic matter, and improve soil health. Recently, an intensively farmed southern portion of the ranch was acquired. This 29.1+ acre area is in dire need of soil health improvements. The soil health on the new ground will be improved by 1) Cover crop and rotation 2) Addition of soil amendments to increase organic matter and 3) Conversion of 10- 12% of land neighboring the slough to native grassland buffer to reduce run-off to a sensitive wetland area.	\$50,000.00	\$28,268.69	Santa Cruz	271.3
Farm Space LLC	The project will offset all Greenhouse Gas (GHG) emissions on 30-acre property, including GHG sources from the Recipient's home, vegetable/fruit production, and cattle operation while showing how Carbon Sequestration can act as systemic ecosystem restoration. The projects carbon farming plan includes replacing a significant area of grazing land with native forest, primarily along an eroded ephemeral drainage. The project will also implement extensive hedgerow and silviculture planting to provide habitat to fauna, reduce desiccation of forage and improve cattle health by eliminating imported, GHG-heavy feed.	\$49,861.07	\$36,414.00	Sonoma	126.1
Gerald Chooljian Farms	The Recipient will add manure, compost, and gypsum to sandy soils along with various cover crops to boost organic matter and give the vines optimum nutrients.	\$46,457.01	\$8,000.00	Fresno	377.2
Hector Barazza NCAT	The Recipient will apply compost and cover crops to 14 acres of almonds.	\$3,831.79	\$2,103.00	Stanislaus	35.4

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Gaytan Family Farm	By improving soil with compost, the Recipient will also further conserve water by retaining more water in the soil via improvement of the soil structure with compost. This will lead to increasing nutrient cycling resulting in increased crop yield and provide families with high quality, nutrient dense produce.	\$7,970.00	\$4,311.00	Riverside	86.0
Hammond Crossland Vineyard	This project is for compost and cover crop soil management practices to improve soil health on 57.36 acres of wine grapes at Hammond Crossland Vineyard, near Paso Robles, in San Luis Obispo County. Compost is banded and hydraulically ripped into the root zone of the vines. A non-leguminous cover crop of Blando Brome and Zorro Fescue is seeded immediately with rubber tracked/low pressure tractor tires to reduce soil compaction. Soil samples will be taken annually to monitor soil health and changes due to soil management losses from harvesting.	\$11,844.08	\$13,579.60	San Luis Obispo	91.1
Jess Wade	The project will focus on sustainability, soil health, and reduction of greenhouse gases (GHG).	\$3,138.00	\$17,476.00	Sonoma	23.2
Crossland Family Revocable Trust	The project is on 72 acres of wine grapes. Certified compost will be banded and hydraulically ripped into the root zone of the vines. A non-leguminous cover crop of Blando Brome and Zorro Fescue is seeded immediately with rubber tracked/low pressure tractor tires to reduce soil compaction. Soil samples will be taken annually to monitor soil health and changes due to management losses from harvesting. This project is expected to reduce greenhouse gas emissions by 345.3 tonnes of CO ₂ equivalent per acre.	\$14,893.67	\$17,046.03	San Luis Obispo	110.1
John T Ham Ranch	The Recipient will implement of cover crops practices and apply the no-till farming on organic walnut orchard.	\$12,840.65	\$10,844.81	Lake	30.2
Jose Robles-NCAT	The Recipient will be using compost, planting cover crops, and 2,688 feet of hedgerow for beneficial insect habitat on 12 acres of almonds.	\$21,703.98	\$7,952.00	Stanislaus	58.1
KLT Vineyards, LLC	The Recipient will add Cover Crop, Compost, Mulching, Soil Testing and Soil Moisture Monitoring to this project.	\$16,744.70	\$8,700.00	Sonoma	70.1
Campodonico Olive Farm LLC (Lianne Campodonico)	This project will accomplish 1) cover cropping in the 9- acre olive orchard to improve water infiltration, increase organic matter content and promote nitrogen fixation and less energy use; 2) establishment of a hedgerow along the west boundary of field A/B to reduce drift from chemical herbicides, pesticides & fertilizers as well as increase carbon storage in the biomass and soil and create additional habitat for beneficial insects and birds. The hedgerow will include native California shrubs and perennial grasses.	\$6,983.76	\$3,650.00	Lake	6.0
Jackelyn Lundy (Lomita Farm)	This project will establish woody cover practices by planting and developing 1,485 feet of hedgerows to help provide a habitat for terrestrial wildlife as well as enhance pollen, nectar, and nest habitat for pollinators.	\$18,047.74	\$8,850.00	Yolo	4.0
Matthiasson Klein Farming	This project will implement new farming practices with the goal of building soil organic carbon and reducing atmospheric greenhouse gasses. Year 1 of the project will include planting perennial cover crops, applying compost and establishing hedgerows. Year 2 and 3 of the project will include applying compost and maintaining the perennial cover crops and hedgerows.	\$30,887.17	\$15,075.00	Napa	43.8
McGinnis Ranch LLC	This project will implement cover crops, compost and woody cover (hedgerow) on a 14-acre multi-crop operation currently undergoing transition from conventional to organic production. Crops include: flowers, row vegetable crops, strawberries and caneberries.	\$12,577.70	\$13,454.00	Monterey	29.7
Amy Davidson Skezas (Meridian Farm)	The project will implement two healthy soils practices in the program: 1. Compost application to grazing land 2. Establish woody cover.	\$1,026.56	\$9,653.55	Sonoma	5.0
Oak Knoll Farming Co.	This is an effort to improve the health of the operations vineyards and build the soil organic material for healthy vines and a more productively sustaining environment.	\$31,452.24	\$75,872.00	Napa	330.8
Michelle Rossow Farms	This project will implement the following practices on 70-acre irrigated cropland. The practices include planting a multi-species legume cover crop annually, spreading compost evenly across the field annually, and residue and tillage management of intensive till to reduced till. Monitoring and evaluation of the practices will be conducted for ensuring long term success and sustainability of the project. The goal of the project with improving healthy soils will improve plant health and yields, increase water infiltration and retention, sequester and reduce greenhouse gases (GHG), reduce sediment erosion and dust, improve water and air quality, and improve biological diversity and wildlife habitat.	\$50,000.00	\$100,745.00	Merced	345.6
Nicasio Native Grass Ranch	The Recipient will add compost application on grazed rangelands.	\$49,714.00	\$52,104.00	Marin	598.3
Pacific Gold Agriculture, LLC	The Recipient is requesting funding for cover crops as a new practice.	\$49,240.74	\$21,192.60	Colusa	45.0
Patricia Diane Vineyards LP	The project will implement soil management practices on 124 acres of wine grapes. Certified compost will be banded and hydraulically ripped into the root zone of the vines. A non-leguminous cover crop of Blando Brome and Zorro Fescue will be seeded immediately with rubber tracked/low pressure tractor tires to reduce soil compaction. Soil samples will be taken annually to monitor soil health and changes due to management losses from harvesting. This project is expected to reduce annual greenhouse gas (GHG) emissions by 606.6 tonnes of CO ₂ equivalent.	\$25,483.65	\$29,418.60	San Luis Obispo	194.2
Pie Ranch	This project will improve the soil health on 33 acres of cropland by adding seasonal cover crops and applying compost each year. The fields that are part of this project have been fallow for the last three years, but prior to 2014 these acres were part of a flower farm that grew annual flowers for 44 years using conventional methods.	\$20,815.12	\$18,655.86	San Mateo	161.1
Roberto Perez NCAT	The Recipient is interested in adding cover crops, compost, and hedgerows to farms operation on several parcels in Merced and Stanislaus counties. Experimenting with these techniques will help build soil structure on the almond orchards which need organic matter.	\$46,022.75	\$20,043.00	Merced, Stanislaus	220.2

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Quaker Oaks Farm	This project will help to become more resilient by building soil health, sequestering carbon and reducing atmospheric greenhouse gases. This project will achieve these outcomes by implementing management practices such as cover crops, hedgerow plants, mulching, compost applications and silvopasture areas on Quaker Oaks Farm. These practices will have positive benefits on soil health, overall farm resiliency and the surrounding area by reducing pollutants in the air and water.	\$12,568.23	\$13,000.00	Tulare	21.4
Red Gate Ranch LLC	The Recipient will re-design and expand the operations market garden to incorporate permaculture concepts and no-till farming for maximum profit to the farm and maximum benefit to the environment. Some of the practices that will be used include no-till, compost and mulch applications, as well as hedgerows/windbreaks and storm water mitigation using swales and berms. The placement of permanent raised beds on contour, within field blocks, will help retain water and prevent erosion while producing high volume annual output, and effectively building soil. Inter-planting, crop rotation, and bed clearing by cutting plants at their base in order to leave the roots in the soil, are all practices that will be used to maintain SOM and microbial life.	\$12,929.11	\$5,873.00	Tehama	7.1
Rock Front Ranch LLC	<i>Zizyphus jujuba's</i> resilience is matched only by its prolific production of a nutritious fruit. The project will demonstrate that the implementation of conservation management practices has immediate and long term rewards for the soil, the biome and the planet. 10590 Highway 166 - A young organic jujube orchard of three acres planted with the idea of harmonizing production and environment. This orchard will be a barometer to establish reproducible positive parameters for carbon sink methodology using techniques that only enhance and improve soil nutrition and soil microbial health which will translate into healthy yields while sequestering carbon from the atmosphere.	\$16,248.60	\$9,950.00	Santa Barbara	9.7
Seth Rossow Farms	This project will implement five soil management practices on one irrigated cropland field that consists of 94 acres. The practices include testing soil annually for organic matter, planting a multi-species legume cover crop annually, and spreading compost evenly across the field annually, spreading mulch evenly across the field annually, and residue and tillage management of intensive till to reduce till. These practices are anticipated to improve soil health. The monitoring and evaluation of the practices will be conducted to ensure long term success and sustainability of the project. The goal of the project will be to improve plant health and yields, increase water infiltration and retention, sequester and reduce greenhouse gases (GHG), reduce sediment erosion and dust, improve water and air quality, and improve biological diversity and wildlife habitat.	\$50,000.00	\$152,377.00	Merced	455.8
Sierra Orchards	The Recipient will take a broad and committed approach toward a vibrant and balanced soil ecosystem through the establishment of a diverse perennial cover crop over three years, accompanied by three years of intensive composting with a high carbon compost. The Recipient will improve soil organic matter, significantly reduce compaction, and foster a soil that is capable of storing the atmospheric carbon mineralized by our crops in its dynamic ecosystem.	\$50,000.00	\$49,158.83	Solano	522.5
Silverwood Ranch	Two stone fruit orchards totaling 205 acres planted in 1998 will be excavated in late 2017 and ground up with a horizontal grinder in early 2018 and the wood chips will be spread back onto the orchard soil as a mulch, at an expense to the grower of \$900 acre. Nonpareil and Monterey almonds on Brights-H5 rootstock will be planted and oriented in a north to south direction in February 2018. The wood chips will be worked into the soil over the first two years in anticipation for harvest when the orchard floor needs to be free of debris on the third year. The wood chip mulch was estimated at over 60 tons per acre. Soil carbon and organic matter will be monitored for three years by UC Cooperative Extension Farm Advisors. The Recipient hopes the additional carbon and organic matter will increase soil carbon and nutrition and orchard and productivity. Preliminary results from the UC shows Whole Orchard Recycling could be a viable alternative to burning or co-generation burning.	\$50,000.00	\$310,189.60	Fresno	42.0
Redwood Empire Vineyards Management, Inc.	This project will implement the following practices: Cover Crop, Compost, Mulching, Soil Testing and Soil Moisture Monitoring.	\$49,315.61	\$28,665.00	Sonoma	216.2
Skyelark Ranch	The project will establish legume cover crop, windbreaks, riparian forest buffer and silvopasture on a riparian section of the Shasta River, with the intent of increasing carbon sequestration, biodiversity, wildlife and pollinator habitat and improving soil health and water quality.	\$11,346.45	\$1,200.00	Siskiyou	17.6
Stemple Creek Ranch	Stemple Creek Ranch will implement compost application and seeding seasonal legume cover crop in pastures. This project will continue to work with Conservation Carbon Plan and put more acreage into the category of rangeland that has received compost application. To go along with this, seasonal legume cover crops will be planted to provide added ground cover, integrate the compost into the soil, provide additional nutrients, protect the soil from the elements, enhance wildlife habitat, and contribute filtration of water running off the land and into Stemple Creek.	\$29,882.00	\$15,100.00	Marin	242.1
Crystal Hap LLC (Tarsadia Organic Farm)	Tarsadia farm is a 50-acre farm that has not performed any soil improvement plans in the past but is committed to farming in an environmentally responsible manner and are very interested in sustainable farming methods. The farm will implement water conservation practices and to improve soil fertility by adding compost in the specialty crop areas and mulching orchards with compost. The operation will also host site visits by other farmers to showcase the soil building project.	\$19,079.00	\$9,539.00	Riverside	213.0
The Cloverleaf Farm	The operation is interested in building soil organic matter and increase carbon sequestration in its vegetable production plots in the next three to seven years. This will be achieved through the implementation of several soil health related conservation practices.	\$7,848.85	\$12,979.39	Solano	2.3

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The Grove LLC	The organic family farm has been planted with famous Washington Navels since the late 1800's. Adding increased compost over the course of the next three years will reduce water consumption, and improve the soil which will sequester carbon and reduce greenhouse gases. Over the years the farm has diversified its crops and has a variety of citrus, avocados, stone fruit and persimmons. The farm seeks to improve soil and beneficial microorganisms. Large amounts of compost will promote soil activity and has the advantage of helping to control weed growth. Additionally, more compost will improve the retention of nutrients in the soil and hopefully result in increased crop yields. Crops are sold at local farmers markets and through the local school district's farm to school program.	\$3,539.00	\$2,175.00	Riverside	38.0
Toluma Farms, Inc.	The farm is utilized for sheep/goat pasture, dairying and cheese making. 40 acres for growing grass hay, a small apple orchard & riparian exclusion area. The Recipient will maximize production, maintain an economically viable operation while protecting soil and water quality. The property's pastures, riparian corridors, manure management, and feed production present opportunities to increase soil carbon while improving the amount, quality, and seasonal availability of forage. Woody, herbaceous, and no-till vegetative plantings, in the pastures, riparian and wetland habitats would provide benefits to carbon sequestration, soil health, stability, hydrology and overall habitat value. Through windbreaks, compost application & agroforestry the project will increase photosynthesis plant growth (roots and shoots); reduce erosion by increasing soil cover, organic matter, and species diversity; control invasive weeds and promote desirable perennials.	\$49,445.36	\$15,100.00	Marin	385.2
True Grass Farms	True Grass Farms will integrate trees and carbon sequestering potential to the currently regenerative managed coastal prairie which promotes and show case for future farms the potential of a diversified agricultural production zone. The Recipient will apply the following practices: 1) Compost application to grazed rangeland to five acres; 2) CPS 391 - Riparian forest buffer by replacing a strip of grassland near water ways for seven acres and one acres of large container / one acres of small container / five acres of medium to large cuttings; 3) CPS 422 - Hedgerow planting (linear wind break) on 1200 ft; 4) CPS 381 - Sylvo pasture – for seven acres.	\$49,954.96	\$15,628.00	Marin	40.0
Valley Fresh Food Inc.	The grant will be used to plant a clover cover crop on a 500-acre almond orchard in Denair, CA. There are eight blocks of almonds, four of which are six to nine-year-old trees and four blocks are new plantings. Many of the soil management practices are already in place and the grant will be used to apply a cover crop including legumes to the soil health management program. Seeds will be broadcast and rolled into prepared ground to maximize the germination rate. The cover crop is applied between the perennial trees in order to improve soil health, structure, and increase soil carbon and organic matter; to avoid nitrate leaching; to provide habitat and nutrition to pollinators; to provide habitat for beneficial insects; to compete against undesirable weeds; to supplement nitrogen without synthetic fixation; to slow run-off and erosion; and to decrease dust pollution during harvest.	\$37,000.00	\$32,599.40	Merced, Stanislaus	36.0
W.H. Latimer Properties, LLC	The Recipient will apply composted dairy manure to citrus orchards at two dry tons per acre per year. The objective is to increase organic matter in the soil. The potential positive outcomes include increasing microbial diversity in the root zone, carbon sequestration and reduced release of greenhouse gases, increased water retention and efficiency, and increased slow-release nutrient availability for less dependence on synthetic fertilizers over time.	\$45,800.00	\$22,900.00	Tulare	520.0
Wild Farmlands Foundation	Restoration Oaks Ranch and Santa Barbara Blueberries is a 955-acre cattle ranch and berry farm located in the epicenter of the California drought, Santa Barbara County. This project will implement the following practices: Add Mulch to Cropland, Compost Application to Grazed Rangeland, Hedgerow Planting and Silvopasture Planting.	\$18,982.30	\$19,060.00	Santa Barbara	90.8

* Subject to change based on budget evaluation by CDFA.

**Estimated using [CARB GHG Quantification Methodology and tools](#). Subject to change based on CDFA evaluation.