List of Applications Received for 2017 HSP Demonstration Projects Second Solicitation – Updated April 17, 2018*

Order	Applicant Organization	Project Description	Grant Funds Requested**	Estimated Cost Sharing**	County	GHG Reduction Estimation (Tonnes CO_2 eq/year)
1	Upper Salinas – Las Tablas Resource Conservation District (USLTRCD)	The Upper Salinas – Las Tablas Resource Conservation District (USLTRCD) is partnering with Vineyard Professional Services (VPS) to implement conservation practices (i.e. no-till and cover crops) on multiple ranches in northern San Luis Obispo County. The project will entail a total of four (4) ranches with 419 vineyard acres. The goal of the project is to evaluate soil health, feasibility, profitability, and ecological benefits from implementing different conservation management practices. The USLTRCD will develop baseline data and ongoing monitoring of the project to measure the effectiveness of each conservation practice applied. These will then be demonstrated to other stakeholders in the area through workshops and a site-tour to each vineyard to increase the efficacy and application within the region.	$99,643.24	$231,257.50	San Luis Obispo	304.0
2	The Regents of the University of California, Davis	The potential for cover crops to increase soil C and productivity while lowering global warming potential makes them appealing to address climate change mitigation and promote sustainable land-use. Our goal is to demonstrate successful cover cropping management for almond producers to 1) sequester C, 2) build healthy soils to enhance orchard resilience to water shortages, and 3) improve overall sustainability and productivity of almond. This project leverage an interdisciplinary assessment of various cover crops supported by the Almond Board of California. In this proposal, we propose to demonstrate the impact of winter cover cropping strategies on long term C sequestration and the implications for resource use efficiency of almond production. We will provide detailed measurement on soil C associated with planted or naturally vegetated winter soil cover, conduct a cost-benefit analysis, and host outreach events to extend information to growers.	$99,828.00	$239,431.00	Tehama Merced	14.4
3	MESA	This project will demonstrate No-till in annul cropland, Compost Application, and Silvopasture in grazing lands and train farmers & ranchers on the capacity of these practices to sequester carbon and reduce agricultural greenhouse gas emissions while monitoring soil health parameters and ecosystem services. This demonstration will be conducted within a 13-acre periurban farm in El Sobrante. UC Berkeley and UC Davis researchers will support data collection and analysis. Terra Global Capital will model greenhouse gas emissions from the treatments. The recipient will garnish increased adoption of these practices through on farm demonstrations with approximately 150 ranchers and farmers, including through their ongoing training of urban and periurban farmers from socially disadvantaged backgrounds. Impact will be further amplified by sharing findings through online courses on MESA's Farm Centered Learning Platform, currently serving farmers across California and beyond.	$100,000.00	$57,500.00	Contra Costa	13.8
4	Community Alliance with Family Farmers (CAFF)	This project meets a critical need for commercial scale demonstrations of both legume and non-legume cover crops in nut orchards. Currently, the practice of cover cropping is underutilized in California, despite the multitude of agronomic and environmental benefits associated with the practice including carbon sequestration and soil health, on-farm water conservation and increased biodiversity. The proposed project will work with three collaborating growers in Merced, Colusa and Yolo counties to demonstrate the practice of cover cropping in almonds and pistachios. The project will include field days, development of a cover crop webpage, publication and extensive networking with local Resource Conservation Districts (RCD) and other technical advisors to promote the practice of cover cropping to California farmers. There will also be substantial data collection including soil health and on-farm water conservation assessments. Success of the project will be measured by field day participation, grower surveys, interviews with collaborating growers, soil and water testing and increased cover crop adoption by growers.	$99,539.00	$50,000.00	Merced Colusa Yolo	47.0
5	Agriculture and Land-Based Training Association	Compost Education, Demonstration, and Research for Organic Vegetable Row Crops in the Salinas Valley (CEDAR)	$100,000.00	$51,199.00	Monterey	52.7
6	Organic Fertilizer Association of California (OFAC)	This project will establish two real worlds in field test plots of cover crops in Butte and Sonoma Counties and provide three field days per test plot to showcase cover crops and encourage growers in the regions to establish cover crops as part of their cropping system. The project goal is showcasing cover crops to 480 growers (invited from surrounding counties) at on farm field day events and to get 20% of those growers to begin cover cropping which will be measured by actual attendance and surveying participants.	$8,618.25	$51,160.00	Butte, Sonoma	0.8
7	San Diego State University Foundation (SDSURF)	In this project, we propose to demonstrate a novel agricultural practice (named SAV, Sustainable Arid Vegetation), which is based on the application of these beneficial microbes for crop production. We plan to carry out a set of field-trials with pepper plants. We will also outreach to local communities to advance the application of natural microbial supplements in agriculture.	$100,000.00	$33,583.00	San Diego Riverside	-
8	Mission Resource Conservation District (North San Diego County)	San Diego County's light textured soils found in the primary growing region of North County make adoption of healthy soil practices an important part of agricultural operations moving forward. The goal of the project is to first reduce GHG's from the operation by sequestering carbon, which will increase organic matter. The project also seeks to reduce soil salinity and improve water infiltration rates. These goals will be pursued through the adoption of the following healthy soils management practices, cover cropping, reduced tillage, composting and mulching. These goals will be measured by lab soil tests, Electrical Conductivity Mapping (for soil texture change) and Natural Resources Conservation Services, Soil Quality Test Kit tests. The outcomes identified by the project are to see the adoption of these healthy soils practices by growers in the region and to reach 120 to 140 growers through the outreach activities of the project.	$57,754.50	$18,554.25	San Diego	104.3
9	Gold Ridge Resource Conservation District	The project will demonstrate benefits of implementing two conservation management practices on a certified organic dairy in western Sonoma county. Our work plan includes compost application on 30.0 acres of grassland and 1 acre of riparian forest buffers. We will engage with at least 120 ranchers and farmers through demonstration field days. The project utilizes a completed Carbon Farm Plan as our basis for implementation. The goal of the project is to increase adoption of conservation management practices that mitigate greenhouse gas emissions and increase soil health through implementation and demonstration of GHG-beneficial practices, in support of ongoing carbon farming extension and education work with local ranchers and farmers.	$99,991.24	$23,476.00	Sonoma	420.3
10	University of California, Davis (UCDVolder_6494)	The project will collaborate with organic growers and the regional farm advisor to better elucidate the role of cover crops in determining system carbon sequestration, greenhouse gas emissions, soil health, and tree performance. The incorporation of cover crops may improve the nutrient status of the tree, particularly in iron, since crops in the lake county region are prone to iron chlorosis. Carbon sequestration will be determined by measuring soil organic carbon and microbial biomass carbon. Greenhouse gas emissions will be assessed by measuring soil respiration, soil water content, soil oxygen concentrations, and soil temperature. Measurements of soil health include pH, nitrogen availability, and iron availability, of tree performance include mid-day stem water potential, root carbohydrates, root respiration, total leaf nitrogen, leaf iron, and chlorosis stress. An improved understanding of the effect of cover crops on the rhizosphere and soil health through advanced on-farm research will better inform management decisions to improve pear orchard yield and long-term sustainability.	$92,213.00	$50,580.00	Lake	4.0
11	California Engineering Services	The project is to demonstrate that retrofits existing natural gas fired industrial combustion devices (like generators, boilers, power plants) to route existing stack emissions of CO2 and NO2 for the beneficial use/ consumption to promote positive impacts on crops, specifically an cherry orchard, to enhance yield, nutrition to yield and crop , water use efficiency by crop, soil health for crop, and hence the provide for the overall reduction of greenhouse gas emissions to the environment by use of biosequestration (through the increase of yield and biomass).	$100,000.00	$100,000.00	Kern	200000.0***
Sum			**$957,587.23**	**$629,387.50**		**200,961.3**

Applications are posted in the order of time received. All applications are currently under review and must meet the minimum qualifications before selected for awards.

** Information as submitted by applicants.*

*** Subject to change based on evaluation of Project Budgets by CDFA.*

**** Estimated by the applicant's own method rather than COMET-Planner or Compost-Planner.*