



University of California Cooperative Extension
SONOMA COUNTY



ANNUAL REPORT 2009
"Sustainability and Partnerships"



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University of California Cooperative Extension SONOMA COUNTY

"Our mission is to sustain a vital agriculture, environment and community in Sonoma County by providing University of California research-based information in agriculture, natural resource management, nutrition and youth development."



To: County of Sonoma Board of Supervisors – Valerie Brown, Efen Carrillo, Mike Kearns, Paul Kelley and Shirlee Zane

The University of California Cooperative Extension (UCCE) is proud of our partnership with the County of Sonoma. Our long time relationship has enabled many successful educational and research programs which greatly impact Sonoma County and its residents. UCCE's innovative programs address critical issues that maintain and increase the sustainability of agriculture and natural resources in Sonoma County.

The UCCE Master Gardeners (MG) developed a "Specialists" program, which focused on Sudden Oak Death (SOD). They have begun conducting workshops around the County teaching about the disease, its impact on the landscape and options for preventing further spread. The new Food Growing Specialists program has partnered with Sonoma County's iGrow, and will educate residents about all aspects of home food gardening in community and backyard gardens.

UCCE Horticulture Advisor held educational programs, partnering with Santa Rosa Junior College and Sonoma County Farm Bureau, on integrated pest management and sustainable organic production, focusing on new specialty crops.

UCCE created a local food system, partnering with county and private agencies to improve local food access to residents. The Livestock Advisor and Meat Buying Club Coordinator developed cost studies for agricultural producers on how to market locally produced agricultural products at Farmers' Markets, Community Supported Agriculture (CSAs), and retail stores. Beginning with the unprecedented Sonoma County Meat Buying Club, to a series of local short courses for farmers and ranchers, UCCE continues to build a continuum of local food production to consumption.

UCCE leads efforts to recover coho salmon populations in Russian River tributaries. Marine Science Advisor and the Coho Restoration Monitoring Coordinator's research and outreach efforts resulted in successful monitoring of the Russian River Coho Salmon Captive Broodstock Program, partnering with local landowners, state and federal agencies, and the Sonoma County Water Agency.

Our 4-H program provided local children hundreds of learn-by-doing activities, serving 1,200 youth with the help of 450 adult volunteers in 28 clubs, overseeing 64 projects. The 4-H Advisor and Program Leader conducts educational and leadership opportunities for local youth, including new programs such as the Science, Engineering and Technology (SET) and a Drum and Dance Program in Roseland.

The Viticulture and Integrated Pest Management (IPM) Advisors provide vital research to the wine grape industry in Sonoma County. Their research findings will address the impacts caused by invasive species, especially the mounting danger of the European grapevine moth, *Lobesia botrana*. With the impending quarantine of acclaimed growing areas, it will be critical for UCCE to preserve its partnerships with the grape growers, maintaining this industries' economic viability.

The University of California Cooperative Extension looks forward to the continued partnership with Sonoma County and its many residents.

Stephanie Larson-Praplan, Ph.D.
County Director

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SONOMA COUNTY 4-H PARTNERS IN YOUTH DEVELOPMENT



that information into the community, in the form of service projects.

Recent research on youth development has documented the important role that youth programs like 4-H play in the lives of young people as well as our community. Conclusions of a 2009 Tufts University study confirm that 4-H youth are behaviorally and emotionally more engaged with school, are more likely to see themselves going to college, get better grades and score much lower on a risk/problems behavior measure than youth who did not participate in a youth development program. Why? Because good youth programs provide young people with access to caring adults, responsible peers as well as skill building and leadership activities that can reinforce the values and skills that are associated with doing well in school and maintaining good physical and emotional health.

In Sonoma County each year more than 1000 youth participate in the program, developing leadership, citizenship and life skills, while contributing to the community with thousands of hours of volunteer service. 4-H youth can be found throughout the county conducting projects such as: giving presentations on global warming, caring for our seniors, cleaning up parks and beaches, donating time to hospital patients and low income children as well as supporting our troops and veterans with gifts of books,



Windsor Bloco Drum and Dance performing at the 2009 Carnival celebration and parade in San Francisco.

valentines and crafts.

As an ongoing part of the process, youth frequently reflect on what they have learned about themselves, their community and the problems they are seeking to address. In this way, youth develop a sense of caring for others and a better understanding of their role as active citizens. While providing 4-H programs for youth in Literacy, Drum and Dance, Leadership, Community Service and Art, Science and Technology, Sonoma County 4-H is partnering with:

- Boys and Girls Clubs of Central Sonoma Windsor, Healdsburg, Cloverdale and Roseland Club house
- Cali Calmécac After School Program
- Healdsburg Community Center
- Jefferson Elementary
- Washington Middle School in Cloverdale
- Technology High School of Rohnert Park
- Windsor Elementary
- Windsor Middle School
- Agilent Technologies
- Redwood Empire Food Bank



More than 400 adult volunteer leaders give their time each year to assist young people in developing a sense of belonging, mastery, independence and generosity. Through hundreds of hands-on, learn by doing projects and activities youth have opportunities to develop responsibility, resolve conflicts, master skills and practice making choices that will impact their future in positive ways.

Sonoma County has a large stake in the healthy development, productivity and leadership capacity of its next generation in order to build strong communities and address the many challenges facing the future.



Linda King, Leader of the George Zeleny Memorial Demo garden displayed at the Sonoma County Fair.

The Sonoma County Master Gardeners have provided guidance to home gardeners in Sonoma County since 1982. Through a variety of projects, 225 active Master Gardeners contributed over 18,000 hours of time to over 24,000 gardeners with science-based information. In 2009, our community projects included partnerships with the Sonoma County Water Agency, Sonoma County Waste Management Agency, Jail Industries Plant Nursery, Harvest for the Hungry Garden, Sonoma County Libraries, Sonoma Garden Park, and eight local Farmers' Markets. Bloomin Backyards,

an educational garden tour of six Master Gardener's gardens, is held every other year (June 6, 2010 is our next garden tour) with a focus on demonstrating research-based, practical solutions to home gardening challenges.

Master Gardener Specialist programs also exist for outreach on Composting as well as Sudden Oak Death. Workshops are held at eight Sonoma County libraries, in addition to outreach that occurs at Farmers' Markets and community gardens. The Sonoma County Fair Demonstration Garden that is designed and created by Master Gardeners is a highlight for



The Master Gardeners' SOD education campaign offered a variety of information at the County Fair.

The Master Gardeners have 225 volunteers who donated 18,000 hours of their time in 2009.

"THE MOST INSPIRING COMPONENT OF THE MASTER GARDENER PROGRAM IS ITS ABILITY TO MAKE A POSITIVE AND LASTING IMPACT UPON OUR COMMUNITY. MY GOALS FOR THE UPCOMING YEAR ARE TO LEARN AS MUCH AS POSSIBLE ABOUT HABITAT GARDENS AND SUSTAINABLE GARDENING PRACTICES. THERE IS SO MUCH WE CAN DO TO IMPROVE THE QUALITY OF LIFE OF NATIVE POLLINATORS AND WILDLIFE, AND IN SO DOING, ENHANCE THE QUALITY OF OUR OWN LIVES. WHAT I ENJOY MOST ABOUT VOLUNTEERING IS THE SHARING OF INFORMATION BETWEEN MASTER GARDENERS AND THE PUBLIC — OUR CLIENTS. THE LEARNING HAPPENS ON BOTH ENDS...IF YOU STAY OPEN TO IT!"

- Coby LaFayette-Kelleher
MASTER GARDENER CLASS OF 2010

"I AM INSPIRED TO CONTINUE TO VOLUNTEER IN THE MASTER GARDENER PROGRAM BY THE ENTHUSIASM AND APPRECIATION EXPRESSED BY HOME GARDENERS IN SONOMA COUNTY. I WOULD LIKE TO REACH A MORE DIVERSE POPULATION IN THE FUTURE. PARTICULARLY YOUNG FAMILIES AND PARTICULARLY IN VEGETABLE AND FOOD GARDENING. I LOVE INTERACTING WITH THE PUBLIC AND HAVING ACCESS TO RESEARCH BASED INFORMATION IN ORDER TO TEACH BETTER GARDENING PRACTICES."

- Anne Lowings
MASTER GARDENER CLASS OF 2004



MASTER GARDENERS PARTNERS IN SUSTAINABLE GARDENING



Sonoma County Sudden Oak Death Program

The Sonoma County Master Gardeners have become the face of sudden oak death education in Sonoma County. This grant-funded program turned an already established group of environmental educators, the UC Master Gardeners, into local experts on sudden oak death (SOD).

many attendees. This garden is a wonderful teaching tool of good gardening practices, including drought-tolerant planting recommendations, composting tips, and integrated pest management (IPM) techniques.

The Sonoma County Master Gardener's website (www.sonomamastergardeners.org) received over 100,000 visits in 2009. The website continues to attract interest, due to its focus on local gardening topics, and its continually updated assortment of articles and gardening advice. The kitchen gardening section offers answers to questions about food gardening, and the feature article on the home page always has information from which local Sonoma County gardeners can benefit.

The 2009 George Zeleny Memorial Demonstration garden featured a variety of drought-resistant species that can be used as alternatives to plants that require more water.



Ann, SOD Specialist, conducts an Agri-Fos® treatment demonstration at the Sebastopol Library.

These "SOD Specialists" present information to the public about SOD biology, treatment, and hazards. In

2009, this group reached an estimated 6,486 residents at library presentations, fairs, and special events throughout the County. SOD Specialists average two outreach events per month. Master Gardener SOD Specialist presentations target Sonoma County residents who want to know how to keep their oaks healthy and to prevent a SOD infestation on their property. By promoting awareness and demonstrating preventive actions, we aim to slow the rate of spread of this disease in Sonoma County.

This program is possible through a grant from the USDA Forest Service.



"4-H IS A GREAT PROGRAM FOR YOUTH. OUR CHILDREN HAVE LEARNED SO MUCH AND BENEFITED FROM THE LEADERSHIP AND EXPERTISE OF OTHERS OVER THE YEARS. WE WANT TO GIVE BACK AND SHARE OUR KNOWLEDGE AND EXPERIENCE WITH OTHERS TO HELP GIVE KIDS THE TOOLS THEY NEED TO BECOME PROFICIENT IN THEIR AREAS OF INTEREST. WE WOULD LIKE TO ENCOURAGE KIDS TO BECOME MORE INVOLVED IN PRESERVING RARE AND HERITAGE BREEDS OF POULTRY. IT'S GREAT TO SEE KIDS GET EXCITED ABOUT LEARNING NEW SKILLS AND PUTTING THEM INTO PRACTICE. WE ENJOY THE RELATIONSHIPS THAT DEVELOP WITH OUR PROJECT MEMBERS AND THEIR FAMILIES. AS THE KIDS GET MORE AND MORE INVOLVED IN THEIR PROJECT IT'S INCREDIBLY REWARDING TO SEE THEIR KNOWLEDGE AND SKILLS DEVELOP TO THE POINT THAT THEY BEGIN TEACHING AND SHARING WITH OTHERS."

- Chuck and Catherine Thode
COUNTY HERITAGE TURKEY PROJECT LEADERS

"4-H HAS INSPIRED ME FOR MANY YEARS. I WAS A MEMBER OF NORTHBAY 4-H IN PETALUMA AND BOTH OF MY PARENTS WERE 4-H MEMBERS. OUR DAUGHTER WAS IN 4-H AND OUR SON IS FINISHING HIS 12TH AND FINAL YEAR. FOR ME, 4-H HAS INSPIRED ME TO BECOME A RESPONSIBLE AND RESPECTED LEADER. AS A YOUTH, IT HELPED ME BECOME A CONFIDENT PUBLIC SPEAKER, ENCOURAGED FUTURE LEADERSHIP ROLES AND HELD ME RESPONSIBLE FOR PROJECTS. 4-H IS NOT A SINGLE MEETING, ITS A LIFE TIME OF LEARNING. I HOPE TO SEE THE ENROLLMENT NUMBERS CONTINUE TO RISE, ENCOURAGING FAMILIES OF ALL LIFESTYLES AND ETHNICITIES TO JOIN. 4-H HAS SOMETHING FOR EVERYONE. ROBOTICS AND LAPIDARY TO COOKING AND SEWING, YOU NAME IT AND WE HAVE A PROJECT. I ALSO LOVE SEEING THE GROWTH IN OUR MEMBERS. FROM THAT SHY SEVEN YEAR OLD, TO THAT CONFIDENT SIXTEEN YEAR OLD, STANDING BEFORE OUR CLUB AS PRESIDENT. IT'S HARD TO EXPLAIN, BUT CHILDREN THAT ARE INVOLVED IN 4-H ARE INCREDIBLE YOUNG LEADERS AND ARE ADMIRER BY MANY. I ALSO LOVE THE WONDERFUL VOLUNTEERS THAT I GET TO WORK WITH, FROM ADULTS TO TEENS, THEY ARE ALL TRUSTWORTHY AND DEDICATED."

- Cheryl Mohrman
PRESIDENT, SONOMA COUNTY 4-H COUNCIL

The 4-H Program has 409 volunteers who donated 58,900 hours of their time in 2009.

Viticulture and Integrated Pest Management

Viticulture



Irrigation scheduling is a major component of successful winegrape production and is receiving widespread attention given increased regulatory scrutiny of agricultural water use. Winegrape growers purposely impose vine water stress to increase quality fruit at the expense of yield reduction. Monitoring vine water stress allows

growers to make informed decisions to balance water conservation with maximum quality and yield.

Many growers use a pressure chamber to assess vine water status (water potential) to schedule irrigations. Less common, but more user-friendly is a leaf porometer – a device that measures stomatal conductance (gas exchange from stomates). In 2009, we used these instruments in two Alexander Valley chardonnay vineyards to determine the relationship between measurements and to assess the feasibility of using the leaf

porometer as an irrigation scheduling tool.

Our comparison showed there was no close correlation, and that the leaf porometer reported widely diverse conductance values within the same vineyard block. Growers who want to increase their reliance on a leaf porometer should take full advantage of its ease of operation and record multiple measurements in key blocks to more accurately assess water status. The pattern of water status within a season can be as useful as absolute numbers in irrigation scheduling.

Integrated Pest Management

Vine mealybug, an exotic pest first identified in North Coast vineyards in 2002, continues to spread in Sonoma County. Previous research conducted by UCCE IPM Advisor Lucia Varela had shown that the standard practice of a delayed dormant application of a highly disruptive organophosphate pesticide was not warranted under North Coast conditions because the pest was under the bark and not exposed.

As part of our pesticide use reduction program, we conducted a large trial in 2009 to evaluate the efficacy of several less disruptive insecticides on the control of vine mealybug. Our work showed an insect growth regulator and various formulations of neonicotinoid pesticides significantly reduced pest populations. This research allows growers to take a more informed approach, and maximize vine mealybug control while minimizing use of highly disruptive pesticides.

Another exotic pest, the European Grapevine Moth was confirmed in October 2009 in Napa. We have been studying the biology of the insect and providing grower outreach in anticipation of control methods being required in Sonoma County.



Vine mealybug colony

Specialty Crops

Sustainable and Organic Horticulture

This program serves over 800 tree fruit, berry, vegetable, herb, and cut flower farmers on about 5,000 acres in Sonoma County. Through partnerships with the SRJC and Farm Bureau several integrated pest management and sustainable-organic crop production seminars were held. Four were one-day field courses for new small-scale olive oil producers on cultural practices, processing and sensory evaluation. Others were held to demonstrate growing new varieties of specialty apples, mandarins, chestnuts, raspberries, and blueberries. One-on-one marketing efforts are helping producers convert what they grow into value added products. Partnering with the local Slow Food Group and Apple Corps is helping increase awareness and sales of our heirloom Gravenstein apple.



Specialty Crops Advisor Paul Vossen evaluates the sensory characteristics of olive oil.

AGRICULTURE AND NATURAL RESOURCES PARTNERS IN SUSTAINABILITY

Fisheries Enhancement

Endangered Coho Salmon Recovery Russian River Coho Salmon Captive Broodstock Program



Returning Program Coho Jack seen during the 2009 spawning season

Dr. Paul Olin, David Lewis, and Project Manager Mariska Obedzinski coordinate the monitoring program that documents the response of juvenile coho salmon re-introduced into seven tributaries of the Russian River. The results are being used to

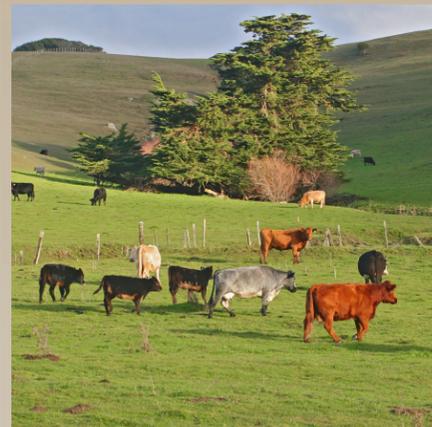
improve the success of salmon recovery in the Russian River and to inform similar programs in other California rivers. The first fish were released in 2004 and UCCE has documented successful oversummer and overwinter survival of juvenile coho, outmigration of smolts and return of adults to spawn in Russian River tributaries each year since the recovery program began. This program is funded by the California Department of Fish and Game's Salmon Restoration Grants Program and the U.S. Army Corps of Engineers. Partners include NOAA Fisheries, the Sonoma County Water Agency, many private landowners, and several other area agencies, organizations and consultants. Find out more at: <http://groups.ucanr.org/RRCSBP/>

Marine Sciences Research and Extension Program:

Dr. Paul Olin's research and outreach program promotes the sustainable use and management of coastal and marine resources. It includes projects addressing aquaculture, fisheries, and watershed management. Dr. Olin's background enables him to provide assistance to owners of small farm and irrigation ponds who require information on fish stocking, managing water quality and control of aquatic vegetation.

Rangeland and Watershed Conservation

Ranch Planning and Conservation Monitoring



The UCCE coordinator for Ranch Planning and Conservation Monitoring, Michael Lennox, uses on-farm research to help manage land for improving agricultural and natural resource sustainability. Options for how to restore streams can be overwhelming so we offer expertise with numerous partnering agencies for what will happen at a site following conservation efforts such as control or exclusionary fencing along creeks designed to limit livestock access.

UCCE offered new tools for watershed management to County residents over the last year by organizing agricultural leaders (Sonoma-Marin Cattlemen's Association, Farm Bureau, Western United Dairymen, Resource Conservation Districts, and Natural Resources Conservation Service) to assist ranching landowners comply with new Conditional Grazing Waiver regulations. Over 160 parcel owners submitting the required Annual Certifications to the San Francisco Water Board following three public workshops with 106 attendees, over 40 phone consultations, and 14 ranch visits. UCCE is continuing to provide one-on-one assistance to complete ranch plans and prioritize water quality improvement projects.

UCCE is also helping the Natural Resource Conservation Service (NRCS) and local Resource Conservation Districts improve their watershed restoration projects. "The UCCE feedback of our stream restoration is good information critical to improve our project success, plan for long-term needs at the site and train staff," says Charlette Epifanio, USDA NRCS District Conservationist.

"It is valuable to know what works overtime – following all the floods and droughts – and it is even more useful to have feedback on ways to do better projects." After surveying 102 sites, UCCE published research about how restored stream sites change over time and a guide for how to monitor revegetation (<http://anrcatalog.ucdavis.edu/pdf/8363.pdf>). We are currently updating the wildlife benefits expected from conservation practices for Sonoma County's land managers.

Sonoma County Meat Buying Club and Food Systems Analysis



Andrew Wilbur hands out samples of local grass-fed beef during the first week of sales at a local grocery chain.

Commissioner resulted in vital information on the type and amount of agriculture produced in Sonoma County.

UCCE provided educational information for dairy and livestock producers to become and/or maintain their organic certification. Through UCCE efforts, local producers now have marketing channels that recognize and reward them for production practices, such as humane livestock treatment and environmental stewardship resulting in Sonoma County residents' access to local, sustainably produced,

organic dairy and livestock products.

Rangeland Conservation and Management

UCCE research efforts have developed a better understanding of the ecologic processes occurring on local range and pasture lands. Over 30 percent of Sonoma County's land is rangeland; management strategies developed by UCCE help maintain the viability and sustainability of these lands. Research conducted examined different management measures for increased carbon sequestration, forage production and biological diversity. Target grazing systems examined the use of livestock to effectively remove invasive species thus reducing fire fuel loads and the need for herbicide applications.



Approximately 312,000 acres of Sonoma County's total land area is classified as Rangeland, which accounts for 31%.

OUR GOALS FOR 2010 FROM FOOD GROWING SPECIALISTS TO COMBATING INVASIVES

- Continue partnering in a comprehensive, ongoing monitoring program to document the success of efforts to **recover endangered coho salmon populations in Russian River tributaries** in collaboration with the local landowners, State and Federal agencies, and the Sonoma County Water Agency.
- Continue researching ways to **control, combat, and monitor for invasive pests**, including Light Brown Apple Moth, European Grapevine Moth, Vine and Grape Mealybugs, and Spider Mites, including studying the impact of indigenous natural enemies on these introduced invasive pests.
- Establish two grapevine rootstock trials using newly released plant materials for the purpose of **evaluating tolerance and resistance to the grapevine fanleaf virus**.
- Increase access to locally-produced foods through educational programs for local farmers and the **development of a Local Food System Network** that expands the Sonoma County Meat Buying Club into the Sonoma Buying Club.
- Expand the 4-H program to include **new clubs in the Mark West and Cotati** areas to help youths develop responsibility, resolve conflicts, master skills and make choices that will positively impact their future.
- Start a new after-school program for teens by **adding a 4-H Bloco program in Roseland** area of Santa Rosa to help reduce gang participation and provide an exercise venue.
- **Reduce urban water use by 30% through Master Gardener educational programs**, including teaching homeowners the benefits of making and using back yard composting and how do reduce or eliminate pesticide use. Conduct advanced training for Master Gardeners in the areas of Sudden Oak Death and Food Gardening (see below).
- **Establish science-based outcomes for how conservation practices have affected local natural resources**, watershed health, ecosystem services, and ranch viability, including tools to control invasive exotic shrubs in restored creeks on public and private land.



Master Gardener Food Growing Specialists

As interest in backyard food gardening continues to grow, Master Gardener Food Gardening Specialists will be assisting gardeners at community gardens and other locations around the county. This new project is in partnership with the iGrow initiative (a part of Sonoma County Health Action). These Specialists receive advanced training in all areas of Food Gardening and in turn are available to provide expert advice, through workshops and one-on-one consultations.

Food Growing Specialist Trainees complete the first of several trainings scheduled for this year.

Spotlight on Invasive Species: European Grapevine Moth, Light Brown Apple Moth, and Vine Mealybug

In the last 10 years several new exotic pests have been detected in Sonoma County vineyards. These include vine mealybug, light brown apple moth and the recently identified European grapevine moth, *Lobesia botrana*. Viticulture Advisor, Rhonda Smith and Integrated Pest Management Advisor, Lucia Varela have developed outreach materials, articles and research reports on all of three of these invasive species. All publications are posted on the Viticulture and Integrated Pest Management programs web pages at: cesonoma.ucdavis.edu.

European grapevine moth larvae feed on flower parts and inside grape berries. Besides direct damage, feeding triggers infections by rot organisms causing fruit loss. Portions of Sonoma County are under quarantine for this pest which was first reported in Europe over 200 years ago. Since the detection of this new pest in September 2009 in Napa Valley, UCCE advisors have conducted numerous outreach programs to educate grape growers, vineyard managers, pest control advisors and farm workers on identification, monitoring and control. The goals for this year are to further educate about this pest

and conduct several research projects to:

1. evaluate sustainable control measures
2. test insect development models to accurately time insecticide applications
3. investigate if indigenous, natural enemies predate upon this pest's eggs, larvae or pupae
4. determine if, under California conditions, grape is the sole host plant, or if egg laying and larvae development occurs on alternate host plants.

Portions of Sonoma County are also under quarantine for light brown apple moth. Its larvae roll leaves in several host plants including grapevines and ornamentals and feed on leaves and superficially on fruit. Light brown apple moth is native to Australia. Dr. Varela took a sabbatical leave to study this

insect in Australia and New Zealand where it has been a pest since the 1900's. She wrote an article reporting her findings in California Agriculture entitled 'New Zealand Lessons May Aid Efforts to Control Light Brown Apple Moth in California' which can be found at <http://californiaagriculture.ucanr.org/index.cfm>.



European grapevine moth, *Lobesia botrana*



Crop damage from *Lobesia* pupae



Male light brown apple moth



Vine mealybug colony

THANK YOU TO OUR PARTNERS

UCCE is able to accomplish many of its goals through collaborative efforts, none of which would be possible without the devotion of our valued partners. Their continued dedication towards our common goals is greatly appreciated. Following is a list of some of the partners whom we collaborated with this past year.

4-H Foundation	Natural Resources Conservation Service
American AgCredit	NOAA Fisheries
Alliance Medical Center	North Coast Regional Water Quality Control Board
American Society of Horticultural Science	North Bay Woolgrower's Association
Americorps	Occidental Arts and Ecology Center
Army Corp of Engineers	Pacific Aquaculture Caucus
Bodega Marine Lab	Pacific Shellfish Institute
Boys and Girls Club Rohnert Park	Pesticide Applicators Professional Association
California Aquaculture Association	Point Reyes Bird Observatory
California Association of Pest Control Advisers	Prunuske Chatham, Inc.
California Oak Mortality Task Force	Resource Conservation Districts, Sonoma County
California Olive Oil Council	Gold Ridge
California Sea Grant	Sotoyome
California State University, Sonoma	Southern Sonoma County
Canvas Ranch	San Francisco Bay Regional Water Quality Control Board
Carneros Vine Mealybug Workgroup	Santa Rosa Junior College
Center for Ecosystem Management and Restoration	Shone Farm
City of Santa Rosa	Scripps Institution of Oceanography
Creek Stewardship Program	Slow Food Movement
Schools	Sonoma County Farm Bureau
Clos du Bois	Sonoma County Grape Growers Association
Clover-Stornetta Farms	Sonoma County Vineyard Technical Group
Community Action Partnership of Sonoma County	Sonoma County Winegrape Commission
County of Sonoma Department or Agency:	Sonoma Fish and Wildlife Commission
Health Action, iGrow	Sonoma Marin Animal Resource Committee
Health Services	Sonoma Marin Cattlemen's Association
Regional Parks	Sonoma Marin Weed Management Area
Agricultural Commissioner	Sonoma Olive Festival Association
Agricultural Preservation and Open Space	State of California, Departments:
Economic Development Board	Fish and Game
Emergency Services	Food and Agriculture
Office of Education	Forestry and Fire Prevention
Fair	Pesticide Regulation
Libraries	Tierra Vegetables
Waste Management	Trout Unlimited
Water Agency	University of California, Berkeley
Domaine Chandon	University of California, Davis
Don Clausen Warm Springs Hatchery	University of California, San Diego
Envirichment	University of California Division of Agriculture and Natural Resources
Future Farmers of America	US Army Corps of Engineers
Grange Credit	USDA Sustainable Agriculture Research and Extension Program
Jefferson Elementary School	USGS Conte Anadromous Fish Research Center
Kid Street Learning Center	Vino Farms
Laguna Farms	Walsh Vineyard Management
Latino Service Providers	Westside School
Marin Resource Conservation District	Windsor Unified School District
Napa & Marin County Agricultural Commissioners	
National Sea Grant Office	



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