Glenn Smith

Frances Healey Administrative Support

Lauren Gwin Staff Research Assistant

Janice Alexander Sudden Oak Death

Support Staff

Donated Value Equivalent \$241,120 274 adult volunteers donated a total of 10,960 hours 4-H Youth Development Program

To expand our education and outreach we train a cadre of dedicated volunteers. VOLUNTEER CONTRIBUTIONS

http://ucanr.org/landscapers_guidelines Sudden Oak Death Guidelines for California Landscapers & Gardeners http://ucanr.org/spanish_guide_forest

Precauciones para prevenir la propagación de la Muerte Súbita de Robles -Spanish Guidelines for Forest Collectors http://ucanr.org/reparian_reveg_eval

Riparian Revegetation Evaluation on California North Coast Ranches Organic Olive Manual - http://ucanr.org/organic_olive_manual http://ucanr.org/cheese-making_sacility

Establishing a Cheese-making Facility in Marin County http://ucanr.org/amazing_but_true http://ucanr.org/christmas_tree_guide Amazing But True Facts About Marin County Agriculture -

A Christmas Tree Grower's Guide to Sudden Oak Death -2007 REPORTS & PUBLICATIONS

Ciffs, \$15,587

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contributes, other sources contribute \$3. tion for mass media, and conduct seminars and workshops. For every \$1 the county organizations, publish newsletters, conduct local applied research, produce informaresearch information to solve community problems. We consult with individuals and resources of the UC campuses, our educational programs use practically applied Our programs operate through a unique partnership between the County of Marin, the UC system, support from the USDA, and other private funds. Backed by the

ЕПИБІИЕ ЗОПВСЕЯ

Anne Kehoe Student Intern

шил8олд Karen Detwiler President, Master Gardener

Deborah Skaar 4-H Secretary

Steve Quirt Organic & Sustainable Agriculture Coordinator

Administrative Support Effie Cook

Asud seid Agricultural Ombudsman

Marin County Staff

Grant Funde 4-H Program Representative

Cindy Jensen UC Non-Academic Staff STAFF

Horticulture Technician Paul Vossen Specialty Crops Elsa Latini Food Stamp Nutrition Education Program

David Lewis Watershed Management

*зиәшә*8vиv_W Livestock & Range Stephanie Larson

Cross County Advisors

Jane Chin Young 4-H Youth Development

Steven Swain

Director/Advisor, Marin Ellie Rilla

University of California

and click on the program area you're most interested in. For more details on each program area, visit our website at http://cemarin.ucdavis.edu,

> 4-H Youth Development Nutrition Education Urban Horticulture

Watershed Management Sudden Oak Death Coordination Sustainable Agriculture

http://cemarin.ucdavis.edu; www.growninnarin.org 412-469-4204 (ph); 415-469-4209 (fx); University of California Cooperative Extension, Marin County 1682 Movato Blvd., Ste. 150-B, Movato, CA 94947

Steve Quirt and Frances Healey, Design and Layout Ellie Rilla, Editor Published by the University of California Cooperative Extension, Marin County

> Judy Arnold - 5th District Steve Kinsey - 4th District Charles McGlashan - 3rd District Harold Brown - 2nd District Susan Adams - 1st District

Production Credits

MARIN COUNTY BOARD OF SUPERVISORS without the strong and consistent support of the Accomplishing our mission in Marin would not be possible

youth at community and Farm Day events, in school gardens, and childcare facilities. Our school outreach programs provided nutrition and science education to 6,400

2,239 people were served in 41 workshops, conferences and tours organized with

College campus.

Open Space, City of San Rafael Falkirk Center, and College of Marin Indian Valley California Oak Mortality Task Force, McEvoy Ranch, Marin County Parks and Bay Agricultural Group, Tomales Bay Watershed Council, Marin Farmers Markets, Resources Conservation Services, Marin Resource Conservation District, Tomales Libraries, Marin Food Systems Project, Marin Art and Garden Center, Natural partment, Marin County Stormwater Pollution Prevention Program, Marin County Farm Bureau, Marin County Community Development Agency, Marin Fire De-

Marin Organic, Marin Agricultural Land Trust, Marin County Agricultural Commissioner's office, Marin Center, Marin County Office of Education, Marin County The events were co-organized with our many community partners, including: we need the help and expertise of many other groups and organizations.

sion programs are established and conducted in Marin County. To accomplish this, Our goal is to ensure that high quality, creative, and integrated research and exten-

Мовкѕнорѕ/Соиғевеисеѕ/Тоивѕ

Advisor's office. skills in our youth and adults. In Marin County we are also known as the Farm wise public policy by strengthening community participation and leadership protecting our unique environmental heritage, and helping communities shape Our local UCCE goals include working to sustain our agriculture community,

natural and human resources. through the creation, development and application of knowledge in agricultural, industries, and the public. Cooperative Extension's mission is to serve California system that makes UC research-based information available to local agencies, The University of California Cooperative Extension in Marin is part of a statewide

MISSION AND GOALS

URPARTNERS

of our society. Our goal is to ensure that high quality, creative, and integrated research and extension programs are established and conducted in Marin County. To accomplish this, we need the help and expertise of many other groups and organizations. Following is a list of some of the groups with whom we collaborated this past year to accomplish many of our jointly-held goals.

American Academy of Pediatrics – Chapter 1 American Cancer Society Bacich Elementary School Bahia Vista Elementary School Bayside Elementary School Bodega Marine Laboratory, UC Davis Bolinas-Stinson Resource Recovery Project Brookside School - Upper and Lower Campuses California Aquaculture Association California Coastal Conservancy California Department of Fish & Game California Department of Food & Agriculture California Department of Forestry & Fire Protection California Department of Health Services

California Forest Pest Council California Oak Mortality Task Force Canal Childcare Center City of Novato City of San Rafael Coleman Elementary School College of Marin

Community Alliance with Family Farmers Dance Palace, Pt. Reyes Department of Agronomy & Range Science, UC Department of Community Development, UC Davis

Department of Conservation & Natural Resources, UC Berkeley Department of Environmental Science, Policy &

Management, UC Berkeley Department of Fish, Wildlife & Conservation Biology, UC Davis Department of Forestry, UC Berkeley

Department of Plant Pathology, UC Davis Dixie Elementary School Edna Maguire Elementary School Environmental Education Council of Marin Fairfax/San Anselmo Children's Center Falkirk Center, San Rafael

Golden Gate Farmers Market Association Hamilton Child Development Center Hamilton Elementary School Hog Island Oyster Company International Society of Arboriculture, Western Chapter

Kaiser Permanente's Educational Theatre -Northern CA Kashia Band of Pomo Indians

Laguna Elementary School

Lagunitas School District Laurel Dell Elementary School Lu Sutton School Lynwood Elementary School Manzanita Child Care Development Center Marin Academic Center Marin Agricultural Education Allian Marin Agricultural Land Trust Marin Art & Garden Center Marin Center Marin Community Foundation Marin Conservation Corp Marin Conservation League

Marin County Agricultural Commissioner's Office Marin County Community Development Agency Marin County Dept. of Health & Human Services, Nutrition and Wellness Program Marin County Farm Bureau Marin County IPM Commission

Marin County Libraries Marin County Office of Education Marin County Parks, Open Space & Cultural Services Marin County Wildlife & Fisheries Committee

Marin Food Policy Council Marin Food Systems Project Marin Grape Growers Association Marin Learning Center Marin Municipal Water District Marin Organic Marin ReLeaf

Marin Resource Conservation District Mary E. Silveira School McEvoy Ranch MCSTOPPP Miller Creek Middle School National Marine Fisheries Service National Park Service

National Wildlife Research Center Natural Resources Conservation Service North Bay Dairy Women North Coast Resource Conservation & Development Council

North Marin Water District North Marin Water District Northbay Woolgrowers Association Novato Charter School Novato Children's Center

Novato Enrichment Care Novato Youth Center Old Gallinas Children's Center Pacific Aquaculture Caucus
Pacific Coast Shellfish Growers Association Park Elementary School Pickleweed State Preschool Pleasant Valley School Pt. Reyes Lions Club Pt. Reyes National Seashore Redwood Empire Small Business Development Center

Regional Water Quality Control Board Richardson Bay Audubon Sanctuary Ross Elementary School San Domenico School San Jose Middle School San Pedro Elementary School SEED

St. Isabella School Saint Mark's School Spaulding Wooden Boat Center, Sausalito Strawberry Point School Sun Valley Elementary School Tamalpais Valley Elementary School The Bay Institute Tomales Bay Agricultural Groun Tomales Bay Oyster Company

Tomales Bay Shellfish TAC Tomales Bay Watershed Council UC IHRM Program UC Sea Grant Program UC Small Farm Center USDA Animal and Plant Health Inspection USDA Forest Service USDA Risk Management Agency Vallecito Elementary School Veterinary Medicine Teaching and

Research Center, Tulare West Marin Chamber of Commerce Western United Dairymen Willow Creek Academy



SUSTAINABLE AGRICULTURE PROGRAM

The "Grown in Marin" program helps strengthen the viability and long-term success of agriculture in Marin by assisting farmers and ranchers with business and crop diversification. This program is made possible with the support of the County of Marin and the Marin Board of Supervisors.

Program Coordinator: Steve Quirt

Permitting assistance pays off

County Ag Ombudsman Lisa Bush assisted 13 local producers with permitting and diversification projects on local ranches and farms. A spring training for 30 county and agency staff reinforced the issues and concerns facing producers as they attempt to increase profitability. All of county staff responding indicated that they found the knowledge gained very useful to their work in processing permits for agricultural diversification projects.



Grown in Marin website grows bigger



Summer Intern Anne Kehoe completed a make-over of our Grown in Marin website, adding a new section, "Resources for Farmers," where producers can access more information on all topics covered by the GIM workshop series since its initiation in 2002. GIM post-

cards are available at various outlets throughout the county, including post offices, libraries, and partner organizations. The website is averaging 20,622 hits monthly.

88% of GIM workshop participants indicate that they plan to apply the methods demonstrated in the workshops to their farming practices. Resources are linked to the http://growninmarin.org website by topic.



This site really expresses a commitment to sustainable farming in this area, and we are lucky to have support like that. - Margie McDonald, Wild Blue Farm

Food service workers on the farm



CE staff partnered with Marin Organic and Novato Unified School District to bring 35 ood service staff to an onthe-farm workshop as part of their professional development credits. A "Producers in the Cafeteria" lunch was served to 400 school children at San

Pedro School in San Rafael in December. Three local producers attended this event and spoke about their operations and the food the kids were eating for lunch. Both the Marin Organic School Lunch Program and the Food Service Program led by Miguel Villarreal for San Rafael and Novato School Districts expanded. The amount of local food provided by Marin Organic-associated producers doubled from \$16,000 in food orders in 2006, to more than \$35,000 in food orders in 2007.

It takes a village to bring you your food



We participated as a partner in Marin Farmers Markets year-long media campaign to spread the word to Bay Area consum-Brigitte Moran and her staff

a full-page spread that ran in The Marin Independent Journal, San

ers about eating locally. led the charge producing Francisco Chronicle, and other local newspapers.



1,722 Marin youth participated in clubs, summer camps after school and nutrition groups throughout the county, hatching chicks, prepping school garden plots, leading talks, cleaning up beaches, and experiencing the hands-on learning 4-H is famous for.

Dear Ms. Jensen, Thank you for the eggs and the incubator. Most of our chicks have hatched and it's so much fun to hold

URBAN HORTICULTURE PROGRAM



The Urban Horticulture Program provides Integrated Pest Management information and education to the professional landscape industry

Horticulture Advisor: Steven Swain

Clinica bilingue para plantas enfermas

Responding to the need for more plant information in Spanish, summer clinics were held in Novato at Quesada Market for 25 residents. Commercial landscape crews received hands-on training in invasive species class co-hosted with the county Parks and Open Space Department and the Ag Commissioner's office.



with underwriting from the Marin Municipal Water District Willis Evans grant program.

A horticulture training program springing forth

We continue our partnering with College of Marin at the IVC campus, the Marin Conservation Corps, and the Workforce Investment Board, and others, to create a hands-on garden learning site for Corps members and others. A \$33,000 grant provided by the county Board of Supervisors for planning consultation is moving the design forward towards groundbreaking.



Marin Master Gardeners talk and walk sustainability message A total of 1,320 residents attended workshops and clinic events taught by Master Gardener volunteers, while FREE INFORMATION we handed a series of call-ins at our office

in Novato. 153 Master Gardener volunteers donated a total of 17,394 hours of education and service to Marin County at farmers' markets, library talks and clinics, weekly Marin IJ columns, and other special events held at key partner organizations like Marin Art & Garden Center and the City of San Rafael's Falkirk Center. Event topics focused on bay-friendly and sustainable horticulture practices.

My landscape company employees appreciate the workshop being covered in their native language and the relevance of the weed control information to our everyday work. Eric Rayner, owner, Rayner Landscaping Company

YOUTH DEVELOPMENT PROGRAM

The 4-H Youth Development Program offers Marin youth ages five to teens valuable life skills in leadership, community service, and science

4-H Advisor: Iane Chin Young

Farm to Fork curriculum takes a bite

We tested a new Farm to Fork curriculum with 60 first graders from San Pedro and Laurel Dell schools as part of a statewide curriculum on raising awareness about local food available on our ranches and farms. FSNEP staff and 76 elementary school teachers and Community Action Marin



teachers provided nutrition education about healthy eating habits to 1,084 youth at five low-income elementary schools and eight Community Action Marin centers in Marin.

From hatching chicks to beach clean-up



NATURAL RESOURCES

WATER QUALITY AND WATERSHED PROGRAM

Our watershed management program in Marin focuses on improv ing the quality of water and aquatic habitat on county ranches and dairies.

Watershed Advisor: David Lewis:

Creating a comprehensive monitoring program

Funds for a two-year effort (2007-2009) were awarded UCCE and staff to develop and initiate a comprehensive monitoring program for the Marin Resource Conservation District (MRCD). This will include maintenance, implementation, effectiveness, and validation monitoring for MRCD restoration and conservation projects.

Riparian revegetation evaluation available



UCCE staff completed this analysis on 102 riparian sites in Marin, Sonoma, and Mendocino Counties in 2007. The guidelines are used by area clientele to document positive and nega-tive outcomes from restoration projects, improve revegetation project design, and justify additional funding requests for

future work. The project final report and monitoring guidelines are available online. at http://ucanr.org/riparian_revegetation

Estuary water quality

Microbial contamination of our estuaries and near-shore environments continues to impact

the beneficial uses of these waters. The dynamics of pathogen and indicator bacteria transport in Marin and Sonoma County estuaries was monitored in five nearby estuary systems, including Lagunitas and Walker creeks and Estero Americano.



County committee recommends restoration projects

The Marin County Wildlife & Fisheries Committee recommended the Board of Supervisors fund 12 projects totaling \$16,605, focusing on restoration and education about wildlife and fisheries in Marin County. MCSTOPPP also contributed funds for clean water stewardship community grants to this coordinated effort.

The research into the effectiveness of restoration projects that included STRAW has proven to be invaluable in many ways..it has helped to secure funds and expand opportunities for schools to participate in restoration efforts. - John Parodi, Bay Institute

RANGE MANAGEMENT PROGRAM

Range & Livestock Advisor: Stephanie Larson

Doctoral program nets new knowledge Stephanie returned from her doctoral studies at Oregon State University, Corvallis with her PhD in Rangeland Ecology and Management. Her research focused on animal movement across landscapes. improving ecosystem management with livestock as a tool. She'll be conducting new research trials with the Ag Commissioner's office on weed control and grazing regimes on coastal pasture.



Opportunities for sustainable meat production in Marin and beyond A feasibility study is under way to determine if the region's markets supply and demand-side - can support a regional, multi-species (red meat) facility, with a focus on local, sustainably-produced meats. The study is being conducted by the Mendocino County Economic Development and Finance Corporation, UCCE-Mendocino, the UC Small Farms Center, and two consulting firms with expertise in the design of meat processing facilities. The study should be completed by March 2008.

UCCE staff has contributed an exceptional level of knowledge and guidance ... helping us get better organized and more effective at accomplishing our goals. With their continued support, the ranchers in the Point Reves National Seashore are better able to fulfill the responsibility of managing these public landscapes, continuing each family's heritage as just another beautiful attribute of this national treasure. - David Evans, H Ranch

SUDDEN OAK DEATH COORDINATION

The Sudden Oak Death program provides technical assistance to other counties, agencies, and the public in collaboration with the California Oak Mortality Task Force (COMTF). It focuses on the plant pathogen Phytophthora ramorum, which can have devastating effects in the wildlands it inhabits and has had substantial impacts on the nursery industry internationally.

Program Coordinator: Janice Alexander

Oak mortality on the increase

In 14 coastal California counties and Curry County, Oregon, P. ramorum has caused outbreaks of Sudden Oak Death, killing over a million native oak and tanoak trees. An ongoing education and outreach program funded by USDA-FS is coordinated from our



offices. It serves Marin residents and professionals as well as making expertise and materials available to other affected areas

Reaching more diverse communities

As the disease has spread to more forested areas within the 14 affected counties in California, the popular forest gatherers guide was translated and adapted to reach more Spanish speaking populations. Guidelines for christmas tree growers and landscapers were also made available at the Task Force website at www.suddenoakdeath.org.

Charting a course for disease management

Staff coordinated conference websites, registration, and presentations for more than 300 attendees in Rohnert Park, Santa Rosa, and Monterey for the 6th California Oak Symposium, the SOD Science Symposium III, and the International Union of Forest Research Organizations.

Ask and vou'll find out more



Janice was invited to speak in Marin and many parts of the state, reaching 547 people at 13 talks. In Marin, this included talks at Dominican University, at Point Reyes Seashore staff training, at five homeowner associations, and the EPA Region 9 tribal conference. By request, workshops and training sessions for 320 professionals were held at eight sites in affected counties. Many phone calls were received and answered from Marin and well beyond. Special assistance was provided to Sonoma County. In addition to

more than 2,000 requested downloads of hand-outs, print materials and brochures were mailed to groups statewide.

As a tribal person I would like to extend my gratitude to let you know that you have succeeded in what you said you would do. You developed a network for tribes to turn to when they have concerns for a healthy forest. Good job. Reno Keoni Franklin, Kashia Pomo Tribe



INNUAL REPORT