Final Report to the Elvenia J. Slosson Endowment California Garden Web-Years I & II Pamela Geisel September 1, 2009

Principle Investigators:

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Project Proposal Summary:

The purpose of the California Garden Web is to facilitate the communication of knowledge about the practices of sustainable home horticulture, focused on the identified core issues, to a three tiered audience, which includes master gardener coordinators, master gardener volunteers and our primary home horticulture clientele in California. Expected outcomes will include increased awareness of master gardener programs in California, increased expertise of California master gardeners and our home garden clientele. The project will also improve the consistency with which master gardeners respond to horticultural questions throughout the state and to unify the master gardener programs by providing greater access to policy and management information for coordinators. Desired impacts include reduced pesticide use, reduced surface water run off, reduction or prevention of the introduction of invasive species, and increased knowledge and use of sustainable landscape practices by California consumers.

Budget Summary:

April 30, 2007 to June 30, 2008: \$45,000. March 1, 2008 to June 30, 2009: \$49,350.

II. Project Description and Completed Work:

Introduction:

The purpose of the California Garden Web is to facilitate and communicate knowledge about home horticulture to a three tiered audience:

- 1. master gardener coordinators
- 2. master gardener volunteers, and
- 3. Primarily home horticulture clientele in California. For the home gardener, the focus of this website is to create a centralized UC resource for research-based information, emphasizing sustainable landscape practices that protect water quality and quantity and enhance the environments and communities in

Year 1 Completed Work: During the first grant cycle and through the generous funding of the Elvenia Slosson Endowment, we completed significant work on content for our first two audiences: Master Gardener volunteers; and Master Gardener coordinators. The December 2007 California Garden Web Year II Slosson grant proposal included a description of that work. The following screen shots show examples of the work.

As shown below, the Statewide Master Gardener Program's site includes program information for the public, links to pages specifically for volunteers, and links to a password-protected site for coordinators.



The password-protected site for coordinators includes a multitude of administrative tools and tips, and a newsletter for coordinators.

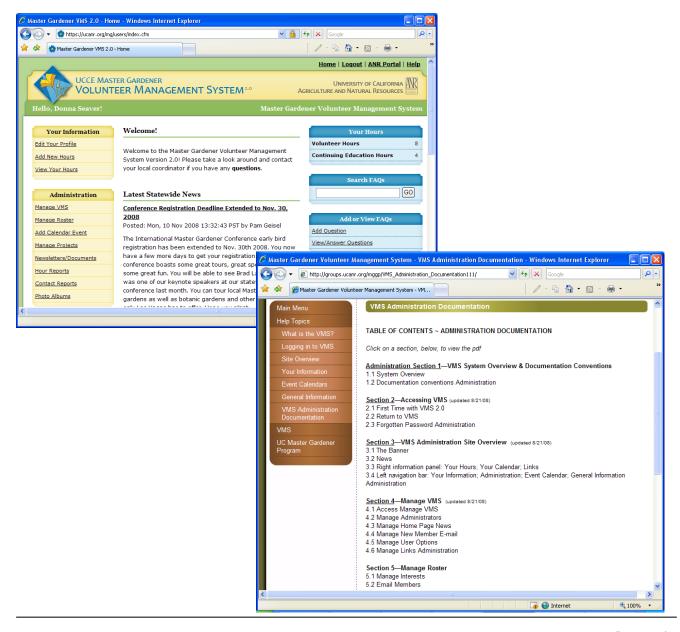


Project Progress Year II.

This past year, the two sites mentioned above continued to be updated, including a new registration and informational site for the Statewide Master Gardener Conference and an Expert Speakers Database.

We also invested in a major redesign and enhancement of the Volunteer Management System ^{2.0} (VMS). This online system was initially developed by ANR Communication Services (ANR CS) as a tool for Master Gardeners to record their hours and manage their projects/calendars and for coordinators to manage their program. The first version was less than user-friendly and not readily adopted by our users. The new system was redesigned following a meeting convened by the Statewide Master Gardener Program composed of coordinators and volunteers who often used the existing system. All were asked for input on how to make the system work better. The "wish-list" was taken to ANR CS and analyzed by Dave Krause for do-ability. Dave developed an entirely new system that is being embraced by Master Gardeners due to its ease of use, awareness of the system and training provided by Pam Geisel, and an online help system with short videos and print materials. Reported volunteer hours increased by almost 100,000 hours in one year. The following two screen shots show the VMS home page and one of the help system pages.

Two other components of this site, in development, are an online recertification system and a Frequently Asked Question (FAQ) database that will be internal to the Master Gardeners and used as a statewide hotline resource.



The third component of our web project and the major focus of the second grant cycle was the **California Garden Web – the UC gardening portal.** The web committee guiding development of this site has met several times in year II and determined the format, style, and structure for this site. Content, for several subcategories, has been created by committee members and implemented by the program representative. The site was password-protected during development: http://cagardenweb.ucdavis.edu; Decisions made by the committee included:

- link to only UC material and sites, unless we cannot find appropriate UC information, e.g. Selectree at CalPoly.
- To use a "Q&A format for organizing materials on the site.
- link directly to UC IPM when appropriate.
- use the model implemented by Integrated Viticulture Online http://iv.ucdavis.edu, and ANR's site builder and datastore/database for ease of long-term maintenance. Within that structure include categories for topic; overview; publications; and associated links. Include photos or graphics on all pages.
- use examples and updated content from the *Master Gardener Handbook*. We were able to get electronic copies of the Handbook from ANR Communication Services
- when linking to a table or chapter from the *Master Gardener Handbook*, include a "Buy Publication" link to the ANR Communication Services catalog.
- use, in general, a question & answer format, instead of staid content titles.
- content is developed by committee members and will be peer reviewed by other committee member.

The home page, shown below, includes a weekly gardening tip, with photo; a 4-photo rotation, with every load of the page; and a welcome statement. The footer includes links to "Our team;" the Statewide Master Gardener Program; the Elvenia J. Slosson Ornamental Horticulture Research Endowment; a warning on the use of chemicals; and a disclaimer. The focus has become a Question and Answer Format

Looking at the navigation bar, we've completed the main content categories for: lawns; trees, shrubs, and vines; poisonous plants; and classes & events. The current home page is shown below.



Content has been submitted for all topics listed in the navigation bar and include:

This site addresses development and implementation of core issue materials, outreach materials, and web activities. The current site structure follows:

Gardening Basics

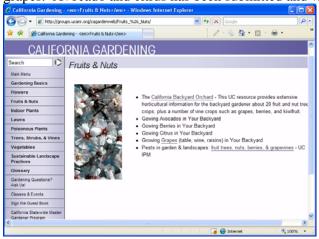
- ☑ Your Climate Zone
 - 1. Find You Local Master Gardener

- 2. Pests, Diseases, Weeds
- 3. Vegetables
- 4. Nut & Fruit Trees & Vines
- 5. Landscape Trees, Shrubs, & Vines
- 6. Lawns
- 7. Flowers
- 8. Indoor Plants
- 9. Poisonous Plants
- 10. Glossary
- 11. Classes & Events
- 12. Tell Us Has this site helped you or changed your gardening practices?

The Gardening Basics category includes several subsections, as shown below. Content is complete for: Sustainable Landscape Practices, Pests, Diseases, Weeds, & Pesticides – linking directly to UC IPM; and Invasive Plants. Content has been submitted for: Soil & Fertilizer Management; and Fire Protection.

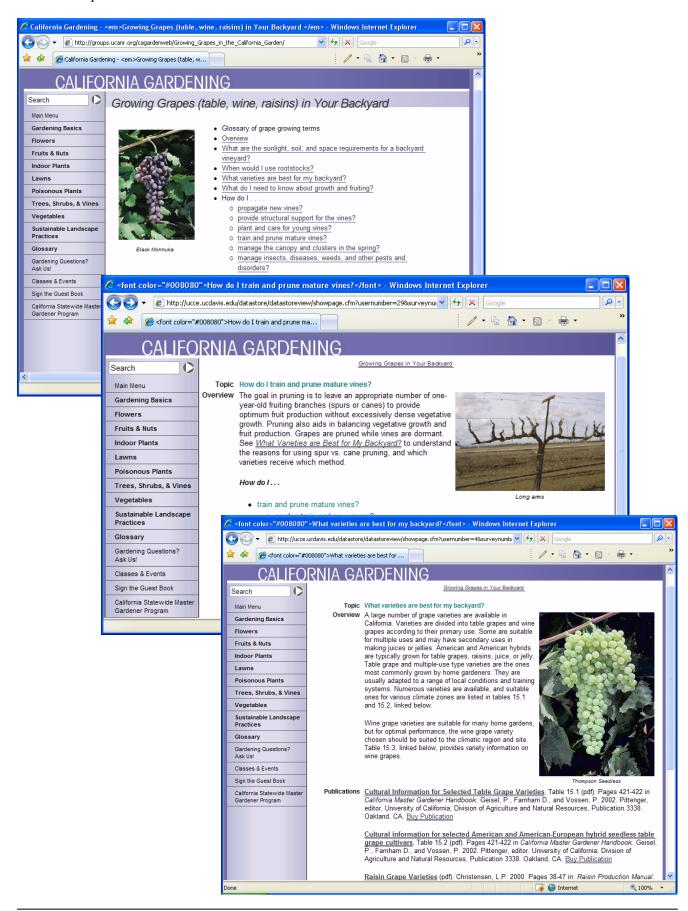


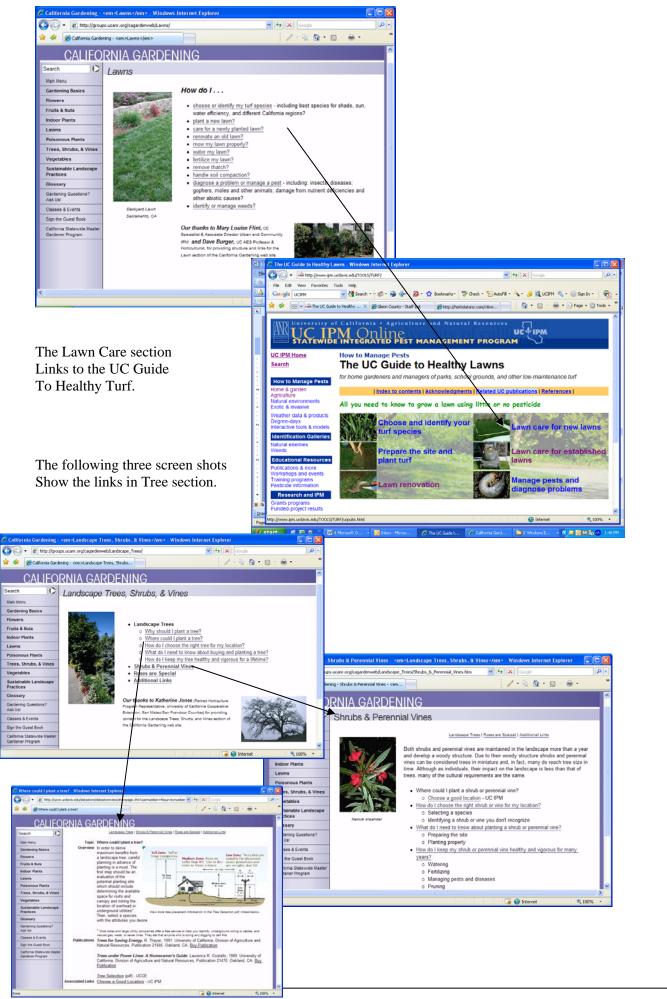
The Fruits & Nuts section, as shown below, links to the California Backyard Orchard with original content for grapes. Avocado and citrus has been submitted and will be added in late 2009.



We conducted usability testing in early December 2009, based on the content that is complete to that date. The feedback we got vastly improved the naviagation and content organization for this site.

The following screen shots show the substructure of this site: how this site is using a modified Integrated Viticulture Online model; the Q & A format; a few of the completed pages; links to the ANR catalog; and inclusion of photos.





We met our project goals and outcomes:

1. Overall purpose, goals and specific objectives:

The purpose of the California Garden Web is to facilitate the communication of knowledge about the practices of home horticulture to our primary home horticulture clientele in California.

2. Goals/objectives:

- A. To continue to create a centralized UC researched-based web resource that emphasizes sustainable landscape practices that protect water quality and quantity, and enhance the environment and would include information on sustainable design such as swales, hydrozones, addition of organic soil amendments, water auditing, and soil amendments.
- B. To create a comprehensive online reference tool for the California master gardener and home gardener that is regionally relevant and research-based.
- C. It will link to regionally appropriate high performing plants for California.
- D. It ties together and serves as a portal to important tools for master gardeners/home gardeners including: UC IPM, ANR Catalog, Center for Urban Horticulture, UC RICs, California Backyard Orchard, eXtension FAQs, UC related arboreta, UCTV, and Integrated Viticulture.

We are meeting or moving toward our expected outcomes, and impacts, including:

- Increased access and better dissemination of existing UC web-based information to home gardeners, master gardeners and coordinators.
- Unified, credible and centralized sources of information.
- Coordination and support activities related to master gardeners and urban horticulture.
- Reduced water and pesticide use because of better garden design, plant selection and improved horticultural practices.
- More awareness of the core issues of ANR by master gardeners and coordinators and clientele.
- More knowledgeable master gardeners that extend research-based information.
- Raise the profile of UC ANR for the California public as a source of credible and reliable home garden information.

We appreciate your support for this project.