



Scaveola aemula
Scaveola



Nepeta faassernil
Catmint



Rosa Meidiland
Pink Meidiland Rose



Phormium tenax
New Zealand Flax



Myoporum parvifolium
Myoporum



Lavandula
Lavendar



Dietas vegeta
Fortnight Lily



Chitalpa tashkentensis
Chitalpa



Sollya heterophylla
Australian Bluebell



Hemerocallis
Evergreen Daylily



Scaveola aemula
Scaveola



Spiraea japonica
Spiraea



Agapanthus africanus
Lily of the Nile



Carpinus betulus
European Hornbeam



Euryops acreus
Euryops



Bergenia crassifolia
Winter Bergenia



CITY OF MILLBRAE

Water Use Efficiency Proposal - January 2005
San Mateo County Water-wise Gardening CD-ROM Development

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2004 Water Use Efficiency Proposal Solicitation Package

APPENDIX A: Project Information Form

Applying for:

Urban

Agricultural

1. (Section A) **Urban or Agricultural Water Use Efficiency Implementation Project**

(a) implementation of Urban Best Management Practice, # _____

(b) implementation of Agricultural Efficient Water Management Practice, # _____

(c) implementation of other projects to meet California Bay-Delta Program objectives, Targeted Benefit # or Quantifiable Objective #, if applicable

(d) Specify other: _____

2. (Section B) **Urban or Agricultural Research and Development; Feasibility Studies, Pilot, or Demonstration Projects; Training, Education or Public Information; Technical Assistance**

(e) research and development, feasibility studies, pilot, or demonstration projects

(f) training, education or public information programs with statewide application

(g) technical assistance

(h) other

3. Principal applicant
(Organization or affiliation):

City of Millbrae

4. Project Title:

San Mateo County Water-wise Gardening CD-ROM Development

5. Person authorized to sign and submit proposal and contract:

Name, title

Ron Popp, Interim Public Works Director

Mailing address

621 Magnolia Avenue

Millbrae, CA 94030

Telephone

(650) 259-2339

Fax.

(650) 697-8158

E-mail

rpopp@ci.millbrae.ca.us

6. Contact person (if different):	Name, title.	Sam Bautista, P.E., Associate Engineer
	Mailing address.	621 Magnolia Avenue
		Millbrae, CA 94030
	Telephone	(650) 259-2446
	Fax.	(650) 697-8158
	E-mail	sbautista@ci.millbrae.ca.us
<hr/>		
7. Grant funds requested (dollar amount):		\$21,000.00
<i>(from Table C-1, column VI)</i>		
8. Applicant funds pledged (dollar amount):		No requirement for Section B Projects
9. Total project costs (dollar amount):		\$21,000.00
<i>(from Table C-1, column IV, row n)</i>		
<hr/>		
10. Percent of State share requested (%)		100%
<i>(from Table C-1)</i>		
11. Percent of local share as match (%)		No requirement for Section B Projects
<i>(from Table C-1)</i>		
12. Is your project locally cost effective?		
<i>Locally cost effective means that the benefits to an entity (in dollar terms) of implementing a program exceed the costs of that program within the boundaries of that entity.</i>		<input type="checkbox"/> (a) yes
<i>(If yes, provide information that the project in addition to Bay-Delta benefit meets one of the following conditions: broad transferable benefits, overcome implementation barriers, or accelerate implementation.)</i>		<input checked="" type="checkbox"/> (b) no
11. Is your project required by regulation, law or contract?		<input type="checkbox"/> (a) yes
If no, your project is eligible.		<input checked="" type="checkbox"/> (b) no
If yes, your project may be eligible only if there will be accelerated implementation to fulfill a future requirement and is not currently required.		
<i>Provide a description of the regulation, law or contract and an explanation of why the project is not currently required.</i>		

12. Duration of project (month/year to month/year):	<u>12/05 to 8/06</u>
13. State Assembly District where the project is to be conducted:	<u>19</u>
14. State Senate District where the project is to be conducted:	<u>8</u>
15. Congressional district(s) where the project is to be conducted:	<u>12</u>
16. County where the project is to be conducted:	<u>San Mateo</u>
17. Location of project (longitude and latitude)	<u>37°37' N 122°23' W</u>
18. How many service connections in your service area (urban)?	<u>6,400</u>
19. How many acre-feet of water per year does your agency serve?	<u>2,900 acre-feet</u>

20. Type of applicant (select one):
- (a) City
 - (b) County
 - (c) City and County
 - (d) Joint Powers Authority
 - (e) Public Water District
 - (f) Tribe
 - (g) Non Profit Organization
 - (h) University, College
 - (i) State Agency
 - (j) Federal Agency
 - (k) Other
 - (i) Investor-Owned Utility
 - (ii) Incorporated Mutual Water Co.
 - (iii) Specify _____

21. Is applicant a disadvantaged community? If 'yes' include annual median household income.
(Provide supporting documentation.)

- (a) yes, _____ median household income
- (b) no

2004 Water Use Efficiency Proposal Solicitation Package

APPENDIX B: Signature Page

By signing below, the official declares the following:

The truthfulness of all representations in the proposal;

The individual signing the form has the legal authority to submit the proposal on behalf of the applicant;

There is no pending litigation that may impact the financial condition of the applicant or its ability to complete the proposed project;

The individual signing the form read and understood the conflict of interest and confidentiality section and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant;

The applicant will comply with all terms and conditions identified in this PSP if selected for funding; and

The applicant has legal authority to enter into a contract with the State.

Signature

Ronald Popp, Interim Public Works Director
Name and title

Date

CITY OF MILLBRAE
WATER USE EFFICIENCY PROPOSAL
DECEMBER 2004

INTRODUCTION

On November 15, 2004, the California Department of Water Resources (DWR) invited agencies to submit a proposal for funding for a Water Use Efficiency Project. In response to this invitation, the City of Millbrae prepared this proposal in hopes of obtaining funding for their water use efficiency (WUE).

The City of Millbrae proposes to develop a “water-wise gardening CD-ROM” to assist property owners with their gardening needs, such as watering times or converting their turf and/or grass areas to more water efficient plantings. This project would be classified under Section B: Training, Education or Public Information category. Furthermore, this project can also fall under “urban water use efficiency demonstration project” or under the “statewide urban water use efficiency public education programs.”

The City of Millbrae believes this project is consistent with and supports the California Bay-Delta Program Goals. This project would help facilitate implementation of water use efficiency actions at the local level. The use of this state grant would help local entities implement WUE practices that contribute to California Bay-Delta objectives. This project would support public awareness with water conservation. In addition, this project would develop partnerships with local and regional entities to determine an approach to WUE actions.

STATEMENT OF WORK

SECTION ONE

RELEVANCE AND IMPORTANCE

Water is a very important resource which needs to be conserved. The volume of water used for lawn and landscape irrigation is not well documented but is estimated to be significant. Research has shown that on average about half of the water used in a single-family home during the course of a year will be put onto the landscape. That is a considerable amount of water. Many residents tend to over-water their lawn and landscape. Many agencies determined on average that a square foot of grass is over-watered by 80 gallons a year.

In the City of Millbrae, many of the residential homes have large areas of lawn and landscape. Recently, the City of Millbrae has increased the water rates. The Water Resources and Conservation Program promotes conservation of water by providing literature of how to water their lawns resulting in lower water bills. Another option to promote outdoor water conservation is to re-landscape the lawn areas with “water-wise”, native or low-water-use plants.

The proposed project is to develop an interactive CD, the Water-wise Gardening CD-ROM, which would be a computerized regional garden guide for water conservation through water efficient landscape. The garden guide would be customized to the Bay Area’s climate and geography. Specifically, this CD would assist residents with their outdoor water conservation needs located in San Mateo County. If the City of Millbrae is successful in receiving a grant from the Office of Water Use Efficiency, the City of Millbrae would ensure that this project would encompass San Mateo County.

The City of Millbrae believes this project is consistent with and supports the California Bay-Delta Program Goals. This project would help facilitate implementation of water use efficiency actions at the local level. The use of this state grant would help local entities implement WUE practices that contribute to California Bay-Delta objectives. This project would support public awareness with water conservation. In addition, this project would develop partnerships with local and regional entities to determine an approach to WUE actions, specifically in water conservation relating to landscaping.

The Water-wise Gardening CD-ROM is developed by GardenSoft, located in Thousand Oaks, California. GardenSoft has developed a similar CD-ROM for the various agencies in Napa and Sonoma Counties. The customized water-wise gardening CD-ROM would show examples of various local gardens and include a plant database specific to the San Mateo County Region. The CD-ROM is extremely easy-to-use and users have the ability to print-out reports to take to the local nursery.

This CD would be distributed during several City or County events or vendors. The City of Millbrae would have landscaping seminars for its residents and other residents in the neighboring cities. The City would advertise this CD by publicizing it on the local cable television channel, water bill flyer, and fliers at the library. The CD would also be distributed during Earth and Arbor Day fairs, the San Mateo County Fair and various street fairs. Residents would also be able to obtain the CD at City Hall at the Public Works Counter, during water audits or at the local garden centers.

According to the City of Millbrae Urban Water Management Plan (UWMP), this project would be consistent with the local water management plan. This project would help the City of Millbrae and other agencies in San Mateo County continue to promote its Public Information Program regarding water conservation.

This project would help further implement existing water management activities especially during drought events. By helping residents pick the various plants for their garden, this would help conserve water because they are more conscious of what amount of water is needed to keep a beautiful garden. Less demand of water would also decrease other indirect costs, such as pumping/electricity costs, thus resulting in energy savings.

This project would help generate water savings. Residents would become more conscious of their watering times and perhaps change their landscaping to more water-wise plants. To determine the water savings for the City of Millbrae, the assumptions are as follows:

- Each single-family home has at least 500 square feet of turf/grass.
- City of Millbrae has approximately 5,800 single-family connections.
- 80 gallons per square foot of over watering a year.

Potential water savings = Area of grass x volume of over watering x # of connections

$$\begin{aligned} \text{Potential water savings} &= 500 \times 80 \times 5,800 &= & 232,000,000 \text{ gals / year} \\ & &= & 712 \text{ acre-feet / year} \end{aligned}$$

As you can see, there is a great potential of water savings for the City of Millbrae. If ten (10) residents decide to change their watering pattern or landscape, they can generate as savings of 1.2 acre-feet a year.

These interactive CD's would provide the residents of San Mateo County a useful resource to change their landscaping and encourage water conservation.

STATEMENT OF WORK

SECTION TWO

TECHNICAL/SCIENTIFIC MERIT, FEASIBILITY

The City of Millbrae will act as the project manager and GardenSoft will be the consultant to execute the project. The project consists of the development of an interactive CD-ROM. The project is very feasible and can proceed as soon as it is funded.

The tasks for the development of this interactive CD-ROM are as follows:

- Survey the county to find water-efficient, water-wise gardens as demonstration gardens. Take photographs of gardens and place pictures on the interactive CD as local garden examples.
- Determine native, regional plants which are aesthetically pleasing and water efficient by customizing a plant database for San Mateo County.
- Develop an easy-to-use interface for all users.
- Develop reports for users so they are able to take it to the nurseries.
- Customize water conservation “pop-up” messages when the program is turned on.

The above-mentioned tasks should take at most 8 months from start of the project to completion. The tentative schedule is as follows:

By December 1, 2005 – Contracts executed, project begin.

By February 2006 – Determine native, regional plants for San Mateo County.

By April 2006 – Survey county and obtain photographs of water-wise gardens.

By May 2006 – Develop CD's interfaces, reporting and “pop-up” functions.

By August 2006 – CD-ROM Completed for distribution.

During this time period, the City of Millbrae would also coordinate with other agencies in San Mateo County regarding this project. The other agencies involved would be other cities, the County, water districts and the Bay Area Water Supply and Conservation Agency.

STATEMENT OF WORK

SECTION THREE

MONITORING AND ASSESSMENT

Due to the nature of this project, monitoring and evaluating the progress and success of the project would be documented after the project is completed.

As mentioned earlier, the project is the development of an interactive CD-ROM for water-wise gardening. As project manager, we will be responsible to monitor and evaluate the progression of this project. We will ask the consultant for submittal throughout the process to make sure it is consistent with the goals and objectives we set from the beginning of the project.

Once the project is completed, these CD's will be distributed to the various agencies located in San Mateo County. The City of Millbrae will be conducting a landscaping workshop during the spring to promote water-wise gardening and give out the CD's to assist residents with their landscaping needs.

This CD would be distributed during several City or County events or vendors. The City of Millbrae will have landscaping seminars for its residents and other residents in the neighboring cities. The City would advertise this CD by publicizing it on the local cable television channel, water bill flyer, and fliers at the library. The CD would also be distributed during Earth and Arbor Day fairs, the San Mateo County Fair and various street fairs. Residents will also be able to obtain the CD at City Hall at the Public Works Counter, during water audits or at the local garden centers.

For those Millbrae residents who plan to replace their landscaping to a more water-wise garden, the City of Millbrae Water Resources and Conservation Program will place their name in a database. The City will then track their water consumption for at least a year and determine how much water they have saved. They will be recognized as local water-wise demonstration gardens.

QUALIFICATIONS OF THE APPLICANTS AND COOPERATORS

Sam Bautista, P.E., City of Millbrae (Project Manager)

Associate Engineer and Water Conservation Program Manager

Sam Bautista has been with the City of Millbrae for four years as the Associate Engineer. He has been managing the Water Conservation Program for 3 years. As an engineer, he has designed and prepared the construction documents and specifications on several of the City of Millbrae's Water Capital Improvement Projects. As the water conservation program manager, he has written the Urban Water Management Plan as well as the Best Management Practices yearly reports to the California Urban Water Conservation Council. He ensures all water conservation programs, such as water and toilet rebates, efficient washing machine rebates, water system audits, public information, shower head replacement, and other programs, are properly executed and funded. He looks forward to executing this project to assist all residents with their gardening needs.

Gerry Kiffe, GardenSoft (Consultant)

General Manager

GardenSoft, formerly Acacia Software, has been in existence from 1984. Acacia Software originally built plant database systems for landscape professionals. GardenSoft also developed a presentation tool for designers called GardenWorks. GardenSoft has built custom electronic catalogs for wholesale nurseries. Mirmar Nursery, Natives Sons, Normans and Greenwood Gardens are just a few of our current customers.

Since 2000, GardenSoft has been building water-wise gardening CD systems. GardenSoft developed a kiosk system for Castiac Lake Water Agency and another one for the Water Conservation Garden in San Diego. GardenSoft has built or are currently under contract to build Water-wise Gardening CDs for the following agencies: Sonoma County Water Agency in Santa Rosa; Metropolitan Water: Los Angeles; Zone 7: Pleasanton; City of Napa; City of Redding; Santa Clara Valley Water District; Coachella Valley Water District; and Contra Costa Water District.

GardenSoft has developed web sites for Water Conservation for both CUWCC and Metropolitan Water District. The websites are: www.bewaterwise.com and www.h2ouse.org.

INNOVATION

Water-Wise Gardening CD's

The Water-Wise Gardening CD's is a very interactive and innovative program. The basic concept is gardening is far more interesting to the average home owner than water conservation. Through the subject matter of gardening, innovative and interactive software tools, people will come to the software again and again to explore gardening themes. However, while they are in the software looking at gardens, plants, photography, hotlinks and the like, they will be reminded again and again of water conservation issues.

New Features:

GardenSoft's pop up message occur every time the software program is turned on. A revolving group of messages are selected by the water district. The purpose behind this is to communicate a core group of ideas that can make a difference in water savings. It is our assumption that the majority of homeowners are not undergoing major property renovation. If we can get them to make modest changes in some of the landscape and gardening habits we can realize some real water savings.

Sample Messages:

Top 10 Ways to Conserve Water in your Landscape

1. *Check your irrigation controller once a month, and adjust as necessary.* Most plants require only one-third as much water in winter as they do in summer. Visit the Landscape Watering Calculator www.sandiego.gov/water/conservation to find out how much water your plants need.
2. *Fix leaking sprinklers, valves, and pipes.* One broken spray sprinkler can waste 10 gallons per minute or 100 gallons in a typical 10 minute watering cycle.
3. *Move turf away from sidewalks and pavement.* Instead plant shrubs or groundcovers next to the pavement, and water with low-flow drip or bubbler system to eliminate runoff from turf sprinklers.
4. *Check the soils moisture level before watering.* You can reduce your water use 20-50% by regularly checking the soil before watering.
5. *Water high water-use plants separately from low water-use plants.* Low water-use plants can grow with one-half the water needed by high water-use plants, and can be easily damaged from over watering.
6. *Apply as little fertilizer as possible.* If you use fertilizer make sure it stays on the landscape, and carefully water it in so there is NO runoff.
7. *Replace turf with groundcovers, trees, and shrubs.* If you have areas where no one uses the grass, patches that do not grow well, or a turf area too small to water without runoff, consider replacing the turf with water-efficient landscaping.

8. *Dig-up patches of weeds and undesirable grasses from turf areas.* Use water to grow the turf you want, not the weeds you don't want! Once you have eliminated what you don't want, add sod or over-seed to repair the bare areas.

9. *Change spray sprinklers to low-flow bubbler or drip systems.* Shrubs and trees are ideal candidates for this type of irrigation because the water is applied directly to the root zones.

10. *Adjust the water pressure of you irrigation system.* Spray sprinklers work best at 30 pounds per square inch (psi), and gear and impact rotor sprinklers at 40-60 psi.

Water Tips Section:

If you start with the assumption that the average homeowner over waters by 50%, then a baseline water prescription can be established for each month of the year, based on historical evapotranspiration (ET) for an entire community or region. Turf would be watered one way and planting areas a different way. This simple prescription allows the non technical homeowner to answer the question "How much should I water my yard?"

When the user presses the "Watering Tips" button the software will determine the month of the year by reading the clock on the computer. That month's water prescription, based on the water districts calculations, will appear on -screen.

SCOPE OF PROGRAM FOR PUBLIC OUTREACH PROGRAMS

It is the intent of the project to help educate the public on how to conserve water through water-wise gardening. As mentioned before, many homeowners over water their lawns by as much as 80 gallons per square foot a year. This CD-ROM will help homeowners with their gardening needs. It will also help them with their watering requirements and make them more aware of their usage.

This CD would be distributed during several City or County events or vendors. The City of Millbrae will have landscaping seminars for its residents and other residents in the neighboring cities. The City would advertise this CD by publicizing it on the local cable television channel, water bill flyer, and fliers at the library. The CD would also be distributed during Earth and Arbor Day fairs, the San Mateo County Fair and various street fairs. Residents will also be able to obtain the CD by walking into City Hall at the Public Works Counter, during water audits or at the local garden centers.

This program is slowly being implemented statewide by different municipalities and water agencies. The Consultant selected to develop this CD-ROM has been in the business of water-wise gardening since 1984. They have produced such CD-ROMs for agency such as the Metropolitan Water District in Los Angeles, the Santa Clara Water District and other agencies throughout California. If this project is funded, San Mateo County agencies are helping to perpetuate the concept of water-wise gardening. Hopefully, other agencies will follow with this concept.

POTENTIAL BENEFITS, INFORMATION GAINED AND COSTS

Potential Benefits

This project would encourage people to use water wisely by choosing plants which are water efficient and thus reducing the amount of water to be used. Using less water would mean less demand on the water distribution system and in turn would decrease pumping demand and energy costs.

Information Gained

For those residents who plan on changing their landscaping to a more water-wise garden, the City of Millbrae will place their name in a database. The City will then track their water consumption for at least a year and determine how much water they have saved. They will also be recognized as a local water-wise demonstration gardens.

Costs

According to the Pacific Institute for Studies in Development, Environment and Security of Oakland, California, a water distribution system uses on average 395 kilowatt-hour per acre-foot of water pumped in the system. Currently, the cost of a kilowatt-hour is \$0.10.

Earlier in this proposal, we calculated the savings of water per year if the residents decided to make their landscaping more water-efficient. It was calculated that at least 712 acre-feet of water would be saved. The energy savings would be calculated as follows:

Energy cost savings = 395 kwh/acre-foot x \$0.10/kwh x 712 acre-feet of water

Energy cost savings = \$28,124.00 per year.

The energy cost savings outweighs the cost of the development fee of this project.

APPENDIX C

PROJECT IMPLEMENTATION COSTS TABLE

APPLICANT: City of Millbrae

Project Title: San Mateo County Water-wise Gardening CD-ROM Development

Section A projects must complete Life of Investment, column VII and Capital Recovery Factor, column VIII. Do not use 0.

Table C-1: Project Costs (Budget)

	Category	Project Costs \$	Contingency % (ex. 5 or 10)	Project Cost + Contingency \$	Applicant Share \$	State Share \$	Life of investment (Years)	Capital Recovery Factor (Table C-4)	Annualized costs \$
	(I)	(II)	(III)	(IV)	(V)	(VI)	(VII)	(VIII)	(IX)
	Administration (for initiation of project)								
	Salaries, wages								
	Fringe benefits								
	Supplies								
	Equipment								
	Consulting services	\$15,000.00	5	\$15,750.00		\$15,750.00	5	0.2374	\$3,739.00
	Travel								
	Other								
(a)	Total Administration Costs ¹	\$15,000.00		\$15,750.00		\$15,750.00			\$3,739.00
(b)	Planning/Design/Engineering								
(c)	Equipment Purchases/Rentals/Rebates/Vouchers								
(d)	Materials/Installation/Implementation	\$5,000.00	5	\$5,250.00		\$5,250.00	5	0.2374	\$1,246.00
(e)	Implementation Verification								
(f)	Project Legal/License Fees								
(g)	Monitoring and Assessment								
(h)	Report Preparation								
(i)	Structures								
(j)	Land Purchase/Easement								
(k)	Environmental Compliance/Mitigation/Enhancement								
(l)	Construction								
(m)	Other (Specify)								
(n)	TOTAL (=a+...+m)	\$20,000.00	NA	\$21,000.00		\$21,000.00	NA	NA	\$4,985.00
(o)	Cost Share Percentage	NA	NA	NA	0	100	NA	NA	NA

SAN MATEO COUNTY WATER-WISE CD-ROM DEVELOPMENT

COST BREAKDOWN

CD-ROM Development Fee by GardenSoft	\$15,000.00
<ul style="list-style-type: none">• Survey the county to find water-efficient, water-wise gardens as demonstration gardens. Take photographs of gardens and place pictures on the interactive CD as local garden examples.• Determine native, regional plants which are aesthetically pleasing and water efficient by customizing a plant database for San Mateo County.• Develop an easy-to-use interface for all users.• Develop reports for users so they are able to take it to the nurseries.• Customize water conservation “pop-up” messages when the program is turned on.	
Purchase final CD-ROMs – Quantity of 1,000	\$5,000.00
<ul style="list-style-type: none">• CD will be distributed to different agencies in San Mateo County to promote water conservation through water-wise landscaping.	
Contingency	\$1,000.00
<ul style="list-style-type: none">• A 5% contingency has been added to the cost of the project for any incidentals not included.	
TOTAL PROJECT COST	\$21,000.00

The annualized cost over a 5 year period is \$4,985.00. The 5 year period is based on an assumption that the data used in the development of the CD-ROM will be valid for 5 years. An update to the data will occur during the sixth year.

All administration salaries and fringe benefit costs shall be paid by the City of Millbrae’s Water Resources and Conservation program. There is no matching fund requirement for Section B projects.

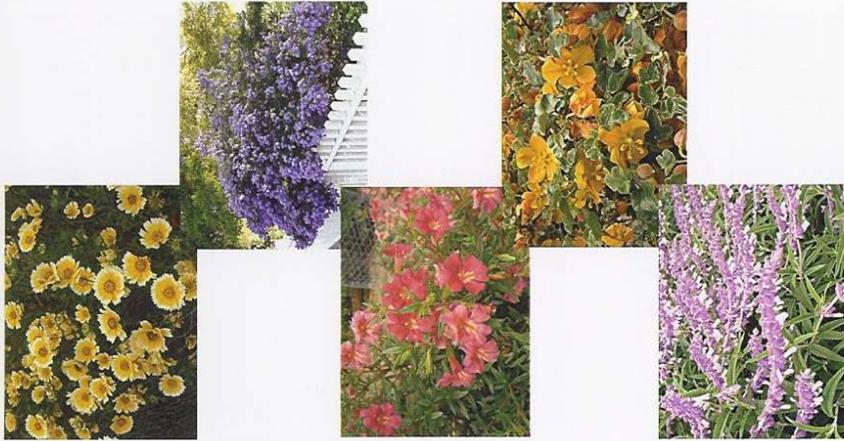
GardenSoft Information

Landscape Water Conservation Outreach

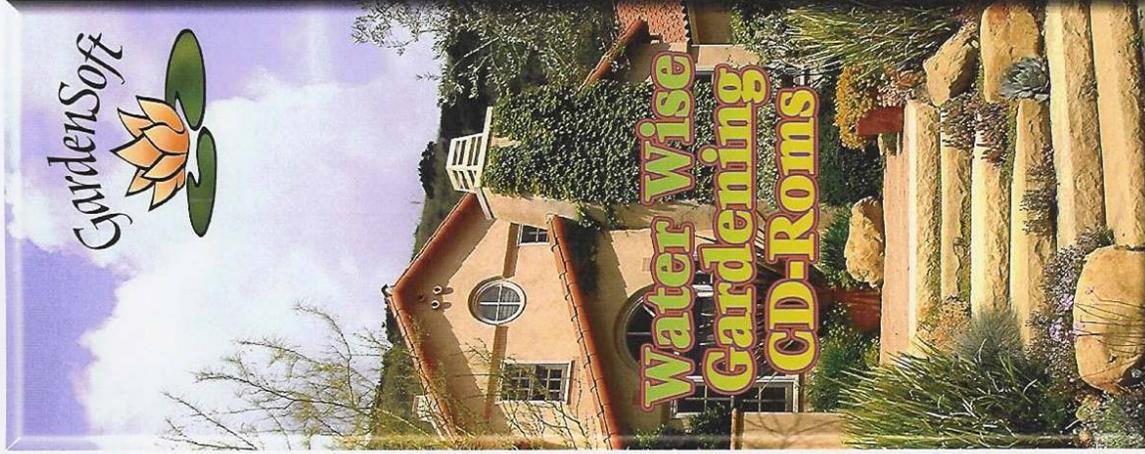


Distribution Opportunities for the CD-Roms

- 🌱 WATER AUDITS
- 🌱 NEW HOME BUYERS
- 🌱 LANDSCAPE CLASSES
- 🌱 WALK-IN TRAFFIC
- 🌱 REGIONAL FAIRS
- 🌱 SCHOOL EVENTS
- 🌱 GARDEN CENTERS



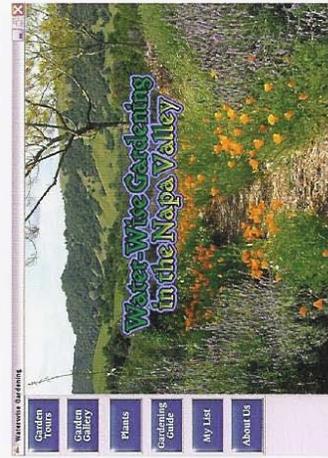
2686 Velarde Drive
 Thousand Oaks, CA 91360
 805-499-9689
www.gardensoft.com



Custom Water Wise Gardening CD-Roms for your Service Area

- Local garden examples
- Customized plant database for your region
- Extremely easy-to-use interface
- Print-out reports to take with you to the nursery
- Custom water conservation 'pop-up' messages when the program is turned on
- Robust information system capabilities

GARDEN DESIGN
IRRIGATION ISSUES
GARDEN CARE



805-499-9689 or online at
www.gardensoft.com

Water Wise Gardening Tours



Outstanding water-efficient gardens are displayed using multiple photos, while 'hot-links' on your screen lead you to plant reports, as well as additional plant photography.

Water Wise Gardening Galleries



Garden images may also be sorted by categories to help home owners find solutions to their particular garden problems.

Water Wise Gardening Plant Database



The Plant Database allows you to lookup plants by name, problem-solving plant lists and plant characteristics.

Water Wise Gardening Information



An extremely robust information system with hyperlinking available to the user. This is the system devised and used by the Sonoma County Water Agency.