

2. Education



BACKGROUND

The primary means by which the Lower Mokelumne River Watershed Stewardship Plan (LMSP) intends to achieve its goals is through education and assisting individuals, groups and agencies to undertake voluntary, stewardship-based activities which conserve and improve the watershed's resources. This Education Element is central to the success of that strategy and interrelates with all other elements of the LMSP.

The Lower Mokelumne River Watershed Stewardship Plan intends to promote educational opportunities within the watershed targeting elementary school children, high school students, local college students, watershed residents, farmers, stakeholders and visitors of all age groups and others who might benefit from watershed-based educational programs.

EXISTING EDUCATION PROGRAMS AND RESOURCES¹:

Mokelumne River Watershed Owners Manual: Based on the Home*A*Syst² model, the *Mokelumne River Watershed Owners Manual* is a voluntary, stewardship-based workbook to guide homeowners in reducing non-point source pollution. The workbook was prepared by the San Joaquin County Resource Conservation District in partnership with the Lower Mokelumne River Watershed Stewardship Planning Committee. The manual provides guidelines for evaluating property and formulating action plans to reduce or eliminate non-point source pollution for homeowners and other residents of the watershed. Topics addressed include: storm water management, reducing pollutants in runoff, landscaping and property management to reduce runoff, drinking water well management, well location and maintenance, household wastewater and septic/sewer systems, managing hazardous household products, product disposal, managing swimming pools and similar topics.

¹ See Resources[®] at the end of this publication for contact information for each of the programs and organizations listed.

² Adapted with permission from NRAES-87 Home*A*Syst: An Environmental Risk-Assessment Guide for the Home.

Mokelumne River Hatchery: The Mokelumne River Hatchery, located at the base of Camanche Dam, is operated by the California Department of Fish and Game and is owned by the East Bay Municipal Utility District. Self-guided tours of the facility are available Monday through Sunday from 7:30 a.m. to 4:30 p.m. Per the California Department of Fish and Game, approximately 15 tours per week are provided for student primarily from San Joaquin County between October and January of each year. Students are normally second graders through eighth graders. Due to limited staffing, organized tours for non-school organizations are infrequent. The hatchery will be closed for renovations , reopening in 2003.



Visiting the Mokelumne River Hatchery

Lodi Lake Nature Area Docents: Since 1987, the City of Lodi Parks and Recreation Department and the Lodi Unified School District, have worked together to create an outdoor education program at Lodi Lake Park. A 58-acre nature area, with marked trails, provides students with an opportunity to see a remnant of the riparian forests which once flourished along the Mokelumne River. A small Discovery Center at the lake is open, by appointment only, for visitors wishing to see and learn more about the area's natural resources.

School Aquarium Program: The local fly fishermen's club coordinates annually with the Mokelumne River Hatchery and local schools for the School Aquarium program. This program provides salmon and steelhead eggs from the Mokelumne Hatchery for individual classes in San Joaquin County Schools. Approximately 50 eggs per class are provided, along with refrigerators and aquariums by the fly fishermen's club. Teachers are given a training session on how to raise the fish. Hatchlings are released into the river by the students. Participating grades are concentrated in the elementary and junior high school grades.

"Discover Lodi!" Wine and Visitor's Center: The Wine and Visitor's Center opened September 10, 2000, at 2545 West Turner Road, in Lodi. The center houses both the Lodi Woodbridge Winegrape Commission and the Lodi Visitor's and Conference Bureau. The center includes public education displays related to growing grapes, making wine, integrated pest management and other watershed issues related to the winegrape industry in the watershed. Interactive monitors and an aerial video of the wine-growing region are just a few of the

educational materials which are on display.

Hill House Museum: The Hill House Museum, located at 826 S. Church Street in Lodi is open 1-4 p.m. on Sundays and for special tours. The museum's focus is historical Lodi. The museum is currently seeking expansion opportunities. While physically located outside of the watershed, the museum nonetheless provides extensive information related to the Mokelumne River which has had a strong influence on the development of the City of Lodi.

Central Valley Waste Services: CVWS offers educational programs promoting a clean environment. Specifically, CVWS emphasizes educational programs for: a) second graders regarding how recycling preserves natural resources and b) fourth graders discussing source reduction of trash. Thousands of children benefit from these programs annually. CVWS also provides tours of its materials recovery center on Turner Road available for all age groups from pre-school, through high school, college, parents and seniors.

San Joaquin County Department of Public Works Solid Waste Division-Household Hazardous Waste Program: This agency is responsible for promoting disposal of household hazardous wastes (e.g., paints, alkaline batteries, oil etc.). Annual clean-up days for hazardous wastes are sponsored throughout the County with at least one clean-up day at a location within the watershed. Public education related to household hazardous wastes comes from this department.

Boy & Girl Scouts of America and Other Youth Groups: There are several troops within the watershed which are very active within the community. Scouts regularly participate in community programs which affect the watershed earning merit badges for various activities (e.g., installing "Don't Dump/To River" signs, planting native plant gardens at Lodi Lake). Similarly, 4-H, Future Farmers of America (FFA), and other youth groups often take an active role in stewardship-based activities within the watershed area.

U.S. Department of Agriculture Natural Resource Conservation Service (USDA/NRCS)-San Joaquin County Resource Conservation District (RCD): The USDA NRCS provides assistance and educational materials for farmers, schools, and residents within the watershed. The San Joaquin County Resource Conservation District provides community outreach and is providing oversight and staffing for the Lower Mokelumne Watershed Stewardship planning effort. The RCD's nine-member board is appointed by the San Joaquin County Board of Supervisors. The RCD holds monthly meetings each third Thursday of the month from 12:00-2:00 at the Stockton Service Center. The Stockton Service Center is located at 1222 Monaco Court, Suite 23 (just off the intersection of March and Pershing) in Stockton and may be reached at (209) 946-6465 Ext. 125.

Lodi-Woodbridge Winegrape Commission: The Lodi Woodbridge Winegrape Commission

has prepared the *Lodi Winegrower's Workbook* addressing best management practices for vineyards. This educational program is ongoing as the LWWC works with local growers to implement various aspects of the workbook which addresses viticulture, soil management, water management, pest management, habitat, human resources, wine quality and other aspects of the winegrape growing industry. LWWC also sponsors the School Trunk Program targeting fourth grade students, but available to 2nd-7th grades. The School Trunk Program teaches how



grapevines came to California and describes one year in the growing season using, among other tools, pictures, charts of vocabulary words and word searches. Ten to thirty classes per year participate in this one-hour program which is free to schools and available to northern San Joaquin County.

Winegrape Grower's Workbook Study Session

San Joaquin County Office of Education: The San Joaquin County Office of Education was awarded a

CALFED grant in 2001 for its Delta Studies Program targeting the 30,000 K-12 graders in 60 schools in San Joaquin County with an emphasis on grades K-6. The program will emphasize fulfillment of California Academic Standards through classroom lessons focused on aquatic and terrestrial habitats and ecological functions of the Delta. The program will accomplish its goals through three primary activities: Preparation of a Delta Studies Curriculum focusing on K-8 and grades 9-12; establishment of a Delta Education Resource Center at the Office of Education; and training of selected teachers-Delta Education Leaders for Teaching and Action (D.E.L.T.A.) to forward implementation of the curriculum. The Delta Studies Program is expected to run for three years and incorporate elements of Project Wild, Project Wet and Adopt-A-Watershed.

Schools: Elementary and High schools located within or serving the watershed area also participate in and promote educational programs provided through the San Joaquin County Office of Education or other private organizations. These schools include: Lodi High School, Clements Elementary School, Lockeford Elementary School, Victor Elementary School, Houston School, Woodbridge Middle School, Oakview Union Elementary School, Galt Joint Unified School District, New Hope Elementary School, Mokelumne River School, Lodi Seventh Day Adventist Elementary School, St. Anne's School, St. Peter Evangelical Lutheran School, Lodi Elementary and Middle Schools (Beckman, Clairmont, Creekside, Davis, Henderson, Heritage Intermediate, Heritage Primary, John Muir, Lakewood, Lawrence, Live Oak, Mahin, Nichols, Oakwood, Parklane, Reese, Sutherland, tokay Colony Turner, Vinewood, Wagner, Washington, Washington DCH, Westwood, Delta Sierra, Lodi Middle, Morada Eastview, Woodbridge Middle), Bear Creek High School, Tokay High School. Programs sponsored by the San Joaquin County Office of Education are described in the preceding paragraph.

Delta College, the University of the Pacific, CA State University Stanislaus and numerous private educational facilities provide higher education opportunities within the watershed. Delta

College is currently pursuing the establishment of a Natural Resources Program which is expected to include courses in watershed management. Schools throughout San Joaquin County and southern Sacramento County are targeted for participation in education programs contained within the Education Element of the LMSP.

San Joaquin County Mosquito and Vector Control District: This agency provides an Integrated Pest Management (IPM) Program for schools and adult groups. School programs targeting 5th graders reach 5,000-7,000 students annually. The school program focuses on the prevention of mosquitoes and ticks and includes methods for reducing the likelihood of becoming a victim of multiple-sting attacks from honeybees. Presentations are also available for high schools and focus on mosquitoes and their biology. Adult group presentations address district operations and vector-borne diseases.

San Joaquin Farm Bureau Federation: The San Joaquin Farm Bureau Federation sponsors a program called Agriculture in the Classroom targeting K-12th grades. The program is undertaken by approximately 50 teachers each year and focuses on water and agriculture.

San Joaquin County Agricultural Commissioner's Office: This office designs and implements numerous educational programs including a Dormant Spray Education Programs for growers around watersheds which is ongoing and stresses best management practices. The program currently focuses on the San Joaquin River watershed. The agency also provides educational programs including its most recent seminar pertaining to best management practices related to sulfur use.

U.C. Cooperative Extension: This agency provides extensive education program addressing watershed management. A few of the most recently developed programs include homeowner education programs targeting the use of residential pesticides (currently funded by CALFED and targeting Diazinon and Dursban) and a new curriculum targeting grades 3-6 emphasizing water and pesticide education. The agency also holds regular farm commodity meetings (e.g., tomato, corn, asparagus, etc.) which emphasize best management practices related to water use and pollution.

City and County Parks: Numerous city and County-owned and operated parks exist within or in close proximity to the Lower Mokelumne River Watershed. The largest of these include: Micke Grove Park and Zoo and Lodi Lake. Smaller parks include Stillman Mc.Gee Park and Woodbridge Park. Large, quasi-public park facilities also are provided at the East Bay Municipal Utility District's day-use facility at the base of Camanche Dam and at the Woodbridge Golf and Country Club. These parks provide opportunities for hands-on recreational/education programs (e.g., the Lodi Lake Docent's school tours of the Lodi Lake Nature Trail) and educational displays (e.g., Micke Grove Zoo, dioramas). The LMSP effort intends to identify those parks where educational opportunities are being underutilized and might be expanded to

promote watershed education issues. Please refer to the AREcreation@ Element of the LMSP for additional information related to public parks within the watershed.

Fire Districts: Fire prevention education is an important aspect of watershed planning. The following fire districts are located within the watershed and based at the indicated locations: Lodi City Fire Department (217 W. Elm, Lodi), Clements Rural Fire District (18901 E. Highway 88, Clements), Mokelumne Rural Fire District (13157 E. Brandt Rd., Lockeford), Woodbridge Fire District (400 E. Augusta, Woodbridge), Liberty Fire District, Delta Fire District and the Thornton Rural Fire Protection District (25999 N. Thornton Road, Thornton). Please refer to the Emergency Services and Fire Prevention Element (Chapter 10) of this plan for details related to size, service areas and operations of these districts.

Audubon Society: The San Joaquin Audubon Society provides educational opportunities for third-sixth graders through its Audubon Adventure Classroom Kits which provides a teacher resource manual and 32 Anewspaper@format handouts for students along with other educational materials addressing such topics as migration, bats, rivers, songbirds, habitat, water birds, wetlands, wildlife, backyard birding and other topics. The program reaches 20-30 classrooms in the county and has been in effect since 1984. Teachers signing up for the program are sponsor by the Audubon Society which purchases the kits for interested teachers. Audubon also maintains two Science-in-a-Suitcase Kits which are made available to schools (public, private and home schools), local civic groups and other interested individuals). Audubon also sponsors group outings for adults and children focusing on bird identification and observation.

San Joaquin County Historical Society and Museum: The San Joaquin County Historical Society sponsors numerous educational programs related to watershed issues including agricultural history, environmental issues and cultural resources topics. Valley Days is an intensive environmental learning program offered to third and fourth grade students. Slide shows offered by the Society include histories of Lodi and Lockeford. The Society also operates the San Joaquin County Historical Society Museum located in Micke Grove Park which offers additional resources including a display of agricultural equipment. Please refer to the Cultural Resources Element of the LMSP for additional details related to this agency.

Lodi Youth Commission: The Lodi Youth Commission sponsors a Teen Lead Program which involves teens in community issues including solid waste management and similar topics.

Friends of Lodi Lake: Friends of Lodi Lake is a hands-on organization to benefit Lodi Lake, the Mokelumne River and the Lodi Lake Nature Sanctuary. The group advocates necessary stewardship to preserve and enhance the natural beauty and tranquility of Lodi Lake proper. Visitors to Lodi Lake enjoy the seven varied theme gardens planted by the organization. Friends of Lodi Lake hold monthly meetings providing a platform for the discussion of issues affecting Lodi Lake.

City of Lodi: The City of Lodi sponsors a water conservation education program targeting K-6.

City of Lodi Citizen Monitoring Program/Storm-Drain Detectives: In October, 2000, the City of Lodi's Public Works Department began a local Mokelumne River Citizen Monitoring Program focusing on locations where the City's storm drains enter the river. Also called the Storm Drain Detectives, this Citizen Monitoring Program is a collaborative effort of the City of Lodi Public Works Department, State Water Resources Control Board Division of Water Quality, Lodi Lake Nature Area Docent Council and four local high schools. Monthly monitoring of the Mokelumne River and Lodi's storm water is done by students and teachers, grades 7-12, and other volunteers who have been trained by a program coordinator. Students participating in the program may receive school credits. In April, 2001, a CALFED grant was awarded to the City of Lodi to expand this monitoring and education effort in the Lodi area.

For more details about the program, sampling locations, and monitoring results, go to the City of Lodi web site at www.lodi.gov and search for Storm Drain Detectives.

San Joaquin Resource Conservation District Website: Educational materials related to watershed stewardship programs, activities and other resource-related information may be found at the San Joaquin Resource Conservation District's website at www.sjcrd.org.

Leadership Institute's Adopt-A-Watershed: Adopt-A-Watershed is a K-12 school-community learning experience which uses local watersheds as living laboratories where students engage in hands-on activities. The program is sponsored by the Leadership Institute. Five primary elements are emphasized: 1) applying science concepts directly to the local watershed, 2) monitoring local watersheds through field study, 3) restoring watersheds through community need-based projects, 4) educating through community action projects and 5) reflecting upon concepts learned while making contributions to the community. The program addresses plants, wildlife, aquatics, ecosystems, soils, geology, vegetation management, and cultures with a curriculum consistent with state requirements. Training for teachers is included in the program. Approximately 120 teachers in San Joaquin County are currently involved in the program.

Learning Under Creative Concepts (LUCC): This organization provides stewardship-related programs for young first-offenders and other at-risk youths which help to foster responsibility and self-esteem. Undertaken primarily on LUCC-owned property, these stewardship-based programs include agriculture, riparian restoration, horse rehabilitation, and similar programs.

GOALS

- ✓ **Promote educational opportunities which advance watershed stewardship and encourage future participation in community watershed management efforts by all**

age groups;

- ✓ Provide specific educational information to watershed residents (including those in Lodi, Clements, Woodbridge, Acampo, Collierville, Victor, Cooper's Corner, Lockeford, Thornton and the surrounding areas), farmers, recreationists, and other stakeholders to encourage implementation of beneficial watershed practices;
- ✓ Educate watershed visitors on the multiple features of the watershed to promote watershed stewardship by recreational users, economic development within the watershed, and to encourage the expansion of beneficial watershed stewardship programs to other regions;
- ✓ Encourage coordinated voluntary community efforts by all watershed stakeholders to implement long-range beneficial watershed programs; and
- ✓ Emphasize implementation of educational programs throughout the community as a primary tool for improving the watershed.

IMPLEMENTATION PROGRAMS:

Residential

Continue Distribution and Encourage Implementation of the *Mokelumne River Watershed Owner's Manual*

Continue public outreach and education efforts to expand the implementation of the *Mokelumne River Watershed Owner's Manual* to reduce non-point source pollution created by residential activities within the watershed.

Continue to seek funding to maintain the position of Watershed Coordinator on staff at the San Joaquin County Resource Conservation District to support the ongoing implementation of the *Lower Mokelumne River Watershed Stewardship Plan* and the *Mokelumne River Watershed Owner's Manual*.

Consider sponsorship of a "demonstration day" showcasing local businesses, products and services which homeowners may use to implement watershed best management practices. If feasible, sponsor a booth at local community events, fairs, or home improvement shows where a ready audience is available.

Consider distribution of educational information related to beneficial watershed practices on an ongoing basis. For example, distribute pesticide use guidelines for

residential gardeners at local garden centers .

Local newspaper inserts, enclosures in property tax bills and/or enclosures in electric bills should be considered as a primary tool for implementing this educational program and ensuring wide distribution of educational materials.

Consider working with other local agencies (e.g., Agricultural Commissioner's Office, U.C. Cooperative Extension, Lodi-Woodbridge Winegrape Commission) to expand the San Joaquin County Mosquito and Vector Control District's Integrated Pest Management Program for school children to include IPM education for residential, public and other uses.

Time Frame for Implementation: Ongoing. Hold first demonstration day within 3 years of LMSP adoption. Consider community promotion events once every two-three years after LMSP adoption.

2. **Expand Residential Pesticide Education Programs**

Working with the U.C. Cooperative Extension's recently launched residential pesticide use education program, encourage other agencies to cooperatively formulate an extensive public-outreach program emphasizing best pesticide use management practices for residential homeowners (perhaps targeting homeowner's associations) and public agencies (e.g., maintenance managers at local and county parks, landscape architects).

Time Frame for Implementation: Ongoing.

Agricultural

3. **Promote/Expand Implementation of the *Lodi Winegrower's Workbook***

Promote and support the ongoing implementation of the *Lodi Winegrower's Workbook*. Use the *Lodi Winegrower's Workbook* as a model to formulate similar watershed stewardship education programs encouraging beneficial watershed stewardship practices in other areas of the watershed (e.g., dryland grazing, row and field crop farming, orchard farming, riparian restoration).

Time Frame for Implementation: Ongoing.

4. **Expand Dormant Spray Education Programs to the Mokelumne River Watershed**

Work with the San Joaquin County Agricultural Commissioner's Office to expand its Dormant Spray Education Program to include the Mokelumne River Watershed.

Time Frame for Implementation: Within three years of Plan adoption.

5. **Expand Participation in Agricultural Commissioner's Office-Sponsored Education Programs**

Promote the educational seminars provided by the San Joaquin County Agricultural Commissioner's Office to increase participation in these programs to include more agencies, private landowners and others.

Time Frame for Implementation: Ongoing.

Schools

6. **Promote/Support Existing Educational Programs Available to Local Schools/Advertise Availability of Agriculture in the Classroom Program and Other Educational Programs Available to Area Schools/Database**

Promote and support existing educational programs available to area schools including, but not limited to, implementation of the following:

Prepare a centralized database of existing agricultural education programs available within San Joaquin County and make it available to the San Joaquin County Office of Education and/or directly to area schools. The database should describe each program, note the targeted audience/age group and list contacts for each program. The database should be updated frequently to reflect new information. This information will be included on the San Joaquin Resource Conservation District website www.sjcrdc.org with links to related sites. The goal of this program is to advertise the availability of these educational programs to expand their use in the classroom.

Ensure that educational materials produced and/or promoted by the LMSP are made available to the appropriate education programs. Ensure that local students

are made aware of voluntary, community-based LMSP programs to encourage participation in these programs by area students

The database and support program should include, at a minimum:

- ✓ the San Joaquin Farm Bureau Federation's Agriculture in the Classroom Program and its available resources
- ✓ School Aquarium Program
- ✓ Mokelumne River Hatchery Tours
- ✓ Central Valley Waste Services 2nd/4th grader program
- ✓ Future Woodbridge Irrigation District Dam Overlook Site Educational Programs
- ✓ San Joaquin County Mosquito and Vector Control District's Integrated Pest Management Program
- ✓ Lodi-Woodbridge Winegrape Commission's Trunk Program
- ✓ Audubon's Audubon Adventures Program
- ✓ Audubon's Science-in-a-Suitcase Program
- ✓ Lodi Lake Discovery Center
- ✓ Lodi Lake Nature Trail/Docent Program
- ✓ City of Lodi Water Conservation Education Program
- ✓ City of Lodi's Storm-Drain Detectives Program
- ✓ Lodi Teen Lead Program (Lodi Youth Commission)
- ✓ Leadership Institute's Adopt-A-Watershed Program (K-12)

Time Frame for Implementation: In conjunction with Plan adoption.

7. **Promote the Implementation of Integrated Pest Management Programs on Local School Campuses**

Work with local schools to design Integrated Pest Management Programs which can be implemented on-site at local school campuses with participation both by maintenance personnel and students (e.g., for school landscaping maintenance, agricultural science programs, landscape architecture and science programs)

Time Frame for Implementation: Commence within 5 years of Plan adoption.

8. **Encourage Watershed-Based High School Senior Projects/ Community Projects**

Coordinate with local science and agriculture faculty at local high schools to encourage consideration of watershed-related issues for senior projects and/or senior community-involvement programs (e.g., organizing clean-up days, habitat improvement, building duck boxes, studying an element of the LWWC Farm Plan, participation in the Storm Drain Detectives program and similar activities)

Time Frame for Implementation: Ongoing, Commence within 2 years of Plan adoption.

9. **Incentives for Higher Education - Scholarship**

Investigate the potential for establishing a scholarship for local high school students interested in pursuing higher education in agriculture, environmental sciences, land use planning, or other watershed-related areas.

Time Frame for Implementation: Within 5 years of Plan adoption.

10. **Encourage Participation in Plan Implementation by Local Colleges**

Coordinate with science and agricultural faculty at local colleges to solicit student participation in watershed-related programs (e.g., conducting ongoing biological surveys and/or monitoring within the watershed; studying LWWC Winegrower's Workbook implementation, and similar programs).

Time Frame for Implementation: Ongoing, Commence within 2 years of Plan adoption.

Facilitate Community-Based Opportunities for K-12 Students to Become Involved in the Leadership Institute's Adopt-A-Watershed Program

The Watershed Coordinator will act as a liaison (through direct contacts and/or publications, website) between community groups, organizations and local schools to keep both schools and the community apprised of ongoing watershed programs which provide opportunities for community-based watershed activities through the Leadership Institute's Adopt-A-Watershed Program (e.g., through involvement in EBMUD wildlife surveys, Mokelumne River Partnership projects, SJCRCD programs, Lodi Docent and City of Lodi projects)

Time Frame for Implementation: Ongoing.

Community

12. **Support the Lodi Lake Discovery Center**

Support the Lodi Lake Discovery Center by promoting partnerships with other community organizations (e.g., Boy Scouts, Girl Scouts, EBMUD, CA Dpt. of Fish and Game, U.S. Fish and Wildlife Service, USDA NRCS, San Joaquin County Resource Conservation District, San Joaquin County Council of Governments etc.) to provide displays and other watershed-based educational materials at the Discovery Center and to increase grant opportunities to enhance funding for educational materials and activities at the Center.

Time Frame for Implementation: Ongoing.

13. **Use Existing USDA Natural Resource Conservation Service Educational Materials**

Expand distribution of existing USDA NRCS watershed-based educational materials and publications at watershed education centers (Discovery Center, Hill House Museum, Discover Lodi! Lodi Wine and Visitor's Center, SJCRCD website, and similar locations).

Unless already available, consider adapting the NRCS's "Backyard" educational kit for teachers as a "Backyard Watershed" kit for teachers for distribution at schools and/or to local residents.

Time Frame for Implementation: Ongoing.

14. **Coordinate with San Joaquin County Department of Public Works Solid Waste Division- Household Hazardous Waste Management Programs and San Joaquin Farm Bureau Federation to Expand APick-up@ Programs**

Coordinate with the County's Household Hazardous Waste Management program to design/expand/distribute educational materials and/or household hazardous waste disposal/recovery programs targeting those non-point source pollutants originating from urban and residential areas which are adversely affecting water quality in the Lower Mokelumne River (See Water Quality Element of the LMSP). Increase the number of hazardous waste pick-up/recovery days provided in the watershed.

Work with San Joaquin County to establish a permanent Roadside Dumping Pick-Up Program targeting the pick-up of discarded mattresses, appliances and other large materials which are frequently found dumped along roadsides and back roads particularly in rural areas.

Support the existing efforts of the San Joaquin Farm Bureau Federation - sponsored chemical pick-up events.

Time Frame for Implementation: Immediately upon adoption of the LMSP.

15. **Water Conservation Program**

Work with local water purveyors to design a water conservation program which is promoted throughout the watershed for multiple uses .

Time Frame for Implementation: Commence within three years of Plan adoption.

16. **Involve Youth Groups**

Enlist the assistance of, or continue to support the ongoing participation of, local youth groups in undertaking beneficial watershed activities (e.g., labeling drains) to expand educational opportunities for youth groups and to encourage a spirit of community volunteerism for watershed stewardship activities.

Time Frame for Implementation: Ongoing.

Enlist Civic Groups to Undertake Educational Programs

Contact local civic groups not already addressed in Program #5 to undertake educational programs for local schools and/or watershed residents emphasizing watershed-related issues (e.g., California Native Plant Society - Plant Education programs).

Time Frame for Implementation: Ongoing, commence coordination activities within 2 years of Plan adoption.

18. **Promote Woodbridge Dam Overlook Site**

Support the construction of an educational overlook site/fish viewing area at the new Woodbridge Dam. Encourage the Parks Department to host pre-arranged tours for school children and adults to the overlook.

Time Frame for Implementation: Ongoing.

19. **Promote and Expand Educational Opportunities at the Hill House Museum**

Promote and expand educational opportunities at Lodi's Hill House Museum. Work with the museum to add/sponsor a watershed display which, in addition to promoting the history of the watershed, also investigates the natural and agricultural resources within the watershed.

Time Frame for Implementation: Ongoing. Commencing within two years of Plan adoption.

20. **Establish Walking Tours Highlighting Cultural Resources**

Facilitate the preparation of walking tour brochures for visitors, residents, and students, promoting historic and other cultural resources within the watershed communities of Lodi, Woodbridge, Lockeford, and Clements.

Time Frame for Implementation: Prepare first walking tour brochure within two years of Plan adoption. Complete walking tour brochures for other watershed communities within 10 years of Plan adoption.

Promotion & Outreach

21. **Use the SJCRCD Website to Distribute Educational Materials and to Provide Links with other Local Organization Websites and Programs**

Continue to maintain and update a San Joaquin County Resource Conservation District website. Use the website to distribute watershed and other resource-related materials and to provide links with other organization websites and resource management programs.

Time Frame for Implementation: In conjunction with Plan adoption.

22. **Promote Educational Programs/Media Use**

Consider publication of an annual/biannual LMSP community newsletter or equivalent means of expanding educational programs and watershed events throughout the watershed. Consider publication of guest articles in mailers and newsletters of other organizations within the watershed promoting best management practices within the watershed (e.g., chamber of commerce, San Joaquin Farm Bureau Federation, San Joaquin Audubon Society newsletter, SJCRCD website and similar locations). See also Program #21.

Time Frame for Implementation: Ongoing.

23. **Promote Educational Centers throughout the Watershed**

Encourage centers embracing watershed-based education to promote one another. Educational centers within the watershed should acknowledge other educational centers within the watershed through displays, printed materials and/or similar outreach. For example, the Wine and Visitor's Center may provide brochures to visitors encouraging visits to the Lodi Lake Discovery Center; the Discovery Center could integrate mention of the Mokelumne River Fish Hatchery in displays concerning the life cycle of salmon, the Hill House Museum could promote historical walking tours in all watershed communities.

Time Frame for Implementation: Ongoing.

24. **Use the San Joaquin County Fair and Other Community Events to Promote Watershed Education**

Consider the addition of activities at the County Fair which might be used for education (e.g., workshops for teachers could be provided and/or they could enter things at the fair such as agricultural commodities, organize a booth at the fair or combine forces with another agency to man a booth at the fair to distribute watershed educational materials).

Continue to take advantage of community events within the watershed (e.g., Youth Group events, Sandhill Crane Festival, Salmon Festival, Grape Festival, Asparagus Festival) to promote watershed education by providing educational materials related to watershed management at booths.

Time Frame for Implementation: Ongoing.

25. **Establish a Watershed Speaker's Bureau**

Establish a list/clearinghouse of willing speaker's available to discuss watershed issues at public presentations for local schools and civic groups. Notify local community groups and other interested stakeholders of the availability of these speakers.

Time Frame for Implementation: Ongoing. Establish list within one year of LMSP approval.

26. **Promote Watershed Education at Local/County Parks**

Identify local and county parks where educational opportunities are being underutilized. Work with the County Department of Parks and Recreation and City Parks and Recreation to facilitate the development of watershed educational programs and materials (e.g., interpretive programs/hikes, dioramas, kiosks etc.) at local and county parks.

Time Frame for Implementation: Commence within three years of Plan adoption.

27. **Continue to Distribute Educational LMR Watershed Video: *Reflections in the River***

The LMSP Steering Committee has prepared an educational video, *Reflections in the River*, for distribution to area schools and community organizations emphasizing the components of and interrelationships within the Lower Mokelumne River watershed, in particular, the control of non-point source pollution. This video may be used separately or in conjunction with the the *Mokelumne River Watershed Owner's Manual* (see program #1). Ordering information for this video is found at the beginning of the LMSP and on the San Joaquin County Resource Conservation District website www.sjcrd.org.

Time Frame for Implementation: In conjunction with Plan adoption.

28. **Promote ADiscover Lodi!@Lodi Wine and Visitor's Center**

Promote and support "Discover Lodi!" Lodi Wine and Visitor's Center as a primary educational center for watershed issues related to the winegrape industry.

Include watershed-based educational materials and, if appropriate, displays focusing on integration of the winegrape industry with other components of the watershed. Consider sponsorship of a Lower Mokelumne River Watershed display/information site at the center promoting the LMSP and other centers offering watershed-based education within the Lower Mokelumne River Watershed.

Time Frame for Implementation: Ongoing.