

998-173

4.5 PSP Cover Sheet

Proposal Title: Local Economic Impacts of Public Land Acquisition in the Sacramento River Conservation Area: A Case Study of Glenn County

Applicant Name: The CSU, Chico Research Foundation-Office of Sponsored Programs

Mailing Address: Kendall Hall, Room 114, Chico, California 95929-0870

Telephone: 530-898-5232 530-898-5026

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Email: DEGallo@csuchico.edu kcooper-carter@csuchico.edu

Amount of funding requested: \$ \$63,029 for 1.5 years

Indicate the Topic for which you are applying (check only one box).

- |   |   |
|---|---|
| <input type="checkbox"/> Fish Passage/Fish Screens      | <input type="checkbox"/> Introduced Species       |
| <input checked="" type="checkbox"/> Habitat Restoration | <input type="checkbox"/> Fish Management/Hatchery |
| <input type="checkbox"/> Local Watershed Stewardship    | <input type="checkbox"/> Environmental Education  |
| <input type="checkbox"/> Water Quality                  |   |

Does the proposal address a specified Focused Action? X yes        no

What county or counties is the project location in? Glenn

Indicate the geographic area of your proposal (check only one box):

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Sacramento River Mainstem | <input type="checkbox"/> East Side Trib: _____                  |
| <input type="checkbox"/> Sacramento Trib: _____               | <input type="checkbox"/> Suisun Marsh and Bay                   |
| <input type="checkbox"/> San Joaquin River Mainstem           | <input type="checkbox"/> North Bay/South Bay: _____             |
| <input type="checkbox"/> San Joaquin Trib: _____              | <input type="checkbox"/> Landscape (entire Bay-Delta watershed) |
| <input type="checkbox"/> Delta: _____                         | <input type="checkbox"/> Other: _____                           |

Indicate the primary species which the proposal addresses (check all that apply):

- |  |  |
|--|--|
| <input type="checkbox"/> San Joaquin and East-side Delta tributaries fall-run chinook salmon | <input type="checkbox"/> Spring-run chinook salmon           |
| <input type="checkbox"/> Winter-run Chinook salmon   | <input type="checkbox"/> Fall-run chinook salmon             |
| <input type="checkbox"/> Late-fall run chinook salmon  | <input type="checkbox"/> Longfin smelt                       |
| <input type="checkbox"/> Delta smelt   | <input checked="" type="checkbox"/> Steelhead trout          |
| <input checked="" type="checkbox"/> Splittail  | <input checked="" type="checkbox"/> Striped bass             |
| <input checked="" type="checkbox"/> Green sturgeon   | <input checked="" type="checkbox"/> All chinook species      |
| <input type="checkbox"/> Migratory birds   | <input checked="" type="checkbox"/> All anadromous salmonids |
| <input checked="" type="checkbox"/> Other: <u>White Sturgeon, Lamprey.</u>                   |  |

Sac. Perch, American Shad, non-native warmwater gamefish, Signal Crayfish

Specify the ERP strategic objective and target (s) and the project addresses: Include page numbers from January 1999 version of ERP Volume I and II:

The vision for the "Red Bluff to Chico Landing" and "Chico Landing to Colusa" ecological management zones is to increase the quantity and quality of stream meander corridor and associated riparian habitat (ERP, Vol II, pp. 168-170). Affected species are summarized on pages 47 and 48 of the same document and all targets are to be achieved, in part, through the creation of expanded habitat.

Indicate the type of applicant (check only one box):

- |  |   |
|--|---|
| <input type="checkbox"/> State agency                    | <input type="checkbox"/> Federal Agency |
| <input type="checkbox"/> Public/Non-profit joint venture | <input type="checkbox"/> Non-profit     |
| <input type="checkbox"/> Local government/district       | <input type="checkbox"/> Private party  |
| <input checked="" type="checkbox"/> University           | <input type="checkbox"/> Other: _____   |

Indicate the type of project (check only one box):

- |                                     |  |
|-------------------------------------|--|
| <input type="checkbox"/> Planning   | <input checked="" type="checkbox"/> Implementation |
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Education                 |

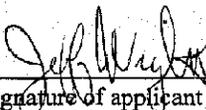
By signing below, the applicant declares the following:

- 1.) The truthfulness of all representations in their proposal;
- 2.) The individual signing the form is entitled to submit the application on behalf of the applicant (if the applicant is an entity or organization); and
- 3.) The person submitting the application has read and understood the conflict of interest and confidentiality discussion on the PSP (Section 2.4) and waives any and all rights to privacy and confidentiality of the proposal on behalf of the applicant, to the extent as provided in the Section.

The CSU, Chico Research Foundation

Jeff Wright

Printed name of applicant



Signature of applicant

## **EXECUTIVE SUMMARY**

### **Project Description**

The project includes an analysis of all economic impacts on Glenn County resulting from the creation of the Sacramento River Conservation Area (SRCA) and the proposed meander zone. The potential effects on the County economy include reduced County Gross Domestic Product (GDP), lost employment, and reduced revenues for County government. The primary purpose of the study proposed here is to determine the extent of those impacts and whether there are alternative means for creating the SRCA that would minimize any adverse impacts.

Estimation of the costs to Glenn County of the SRCA is based on a comparison of the economic activity generated by existing land uses and by the land use patterns that evolve through the meander belt restoration process. The impact on Glenn County of public land acquisition in the SRCA is calculated as the difference between the contribution of existing land uses and those following public acquisition.

We are proposing to examine only those benefits that would accrue directly to the local economy. This is limited to recreational benefits including increased visitors and associated spending resulting from improved quality of fishery habitat.

### **Approach, Tasks and Schedule**

The study design involves no collection of primary data but rather the use of existing data sources. Data collection and initial model construction will be completed within the first six months. The second six month period will be devoted to model refinement and interpretation. The literature survey/ benefit evaluation task will overlap the cost estimation task during the first year. The final six months will be devoted to report writing, soliciting public input, and integrating public comments.

### **Location and Geographical Boundaries**

The proposed impact analysis is for a case study of the effects on the economy of Glenn County. The study area includes the 48,165 acres within the County and inside the boundary of the one hundred year flood plain for the Sacramento River. It is the portion of the river between river miles 164 and 206 and includes portions of the "Red Bluff Diversion Dam to Chico Landing", "Chico Landing to Colusa" and the "Butte Basin" Ecological Management Units. The 1:186,000 map showing the project area outline is included as an attachment.

### **Ecological / Biological Benefits**

The proposed study provides no direct ecological/biological benefits, but rather evaluates the local economic impacts associated with the creation of the SRCA. The information provided by this analysis will be useful, in conjunction with data on habitat optimization, for determining the best method for achieving the goals of the SRCA. The local economic impact is one of the important factors to be considered in determining the appropriate configuration for an expanded meander belt.

**Justification for Project and Funding by CALFED**

Local economic impacts are a consideration in determining the means for creating the SRCA. The proposed study will evaluate the alternatives of land acquisition and conservation easements in terms of relative costs for the local economy.

**Technical Feasibility / Data Collection**

The primary data source for parcel specific information is the Geographic Information System (GIS) at CSU, Chico. The system provides parcel numbers and existing land uses for all lands in the one hundred year flood plain. Links with the Glenn County Assessors Office database provide tax rate areas, assessed value and the base year for appraisals. That information is sufficient for determining impacts on property tax and special district revenues resulting from public land acquisition. The land use data, in conjunction with price and production data from the 1997 Census of Agriculture, permits estimation of changes in the value of County agricultural output.

**Monitoring / Data Evaluation**

Data will be collected from existing sources providing input to the IMPLAN model. Monitoring is not applicable in this case. Data evaluation will be through the model outputs and associated sensitivity analyses.

**Applicant Qualifications**

The Foundation and the associated primary researchers are qualified to perform the analysis described in this proposal. Primary data generation and mapping will be completed by the Geographical Information System staff. Project management, the literature survey and report writing will be the responsibility of Dr. David Gallo, an environmental economist. The tasks involving construction, implementation and refinement of the IMPLAN model will be assumed by Dr. Ronald Adams, a regional economics specialist.

**Local Involvement**

Work on this and earlier versions of proposals for local impact studies began in April, 1998 at a meeting with various Glenn County officials and members of interested environmental groups. The study design and scope described in this proposal is the result of the interchange between the advisory committee and the primary researchers.

Upon completion of the preliminary report, public input will be solicited and its substance incorporated into the final report. It is expected that, following approval by CALFED, presentations will be made before various interested groups. Appropriate groups include the SB1086 Workgroup and Advisory Committee, the Sacramento River Landowners Association, the Watershed Conservancy and the Glenn County Board of Supervisors.

## **PROJECT DESCRIPTION**

### **Scope**

The project includes an analysis of all economic impacts on Glenn County resulting from the creation of the Sacramento River Conservation Area (SRCA) and the proposed meander zone. The potential effects on the County economy include reduced County GDP, lost employment and reduced revenues for County government. The primary purpose of the study proposed here is to determine the extent of those impacts and whether there are alternative means for creating the SRCA that would minimize any adverse impacts.

It is not our intention to do a comprehensive cost-benefit analysis. Estimation of benefits would require extensive field work and unnecessarily delay the study results. In discussing an earlier version of this proposal with a group that included representatives from Glenn County government and interested members of several environmental organizations, it was decided that separating the cost and benefit estimation tasks was appropriate; however, a number of individuals, primarily those associated with the environmental organizations, were concerned that anyone reading the report would get the impression that there were only costs associated with the creation of the SRCA. It is this concern that led us to widen the scope of the study to include a literature survey of the potential local benefits of habitat restoration. While the benefit estimates would be neither site specific nor quantitative, a discussion of the potential local impacts would provide an offset to the discussion of costs.

### **Study Design/Cost Estimation**

Estimation of the costs to Glenn County of the SRCA is based on a comparison of the economic activity generated by existing land uses and by the land use patterns that evolve through the meander belt restoration process. Existing land uses for the proposed SRCA will be determined using data from the Geographic Information System (GIS). The GIS information will be used to estimate current property tax and special district revenues. In combination with data from the 1997 Census of Agriculture, the GIS crop data will provide an estimate of the dollar amount of direct economic activity generated by existing agricultural land uses.

The impact on Glenn County of public land acquisition in the SRCA is calculated as the difference between the contribution of existing land uses and those following public acquisition. For each parcel shifted to public ownership, property tax and special district revenues are lost and in lieu revenues are paid by the purchasing agency. If the land is converted to non agricultural uses, such as habitat restoration, County economic activity is adversely affected; however, until completed, restoration activities make a positive contribution to the County economy. The dollar amount of direct economic activity generated by each publicly acquired parcel is determined as the net effect of these various factors.

Estimates of total economic activity generated by alternative land use patterns are made using an input-output model. We are proposing to use IMPLAN for this part of the study. The model projections of employment, County GDP and local government revenues are compared for existing land uses and following addition to the SRCA. The model results are then used to measure impacts on the Glenn County economy of each of the following:

- The various stages of development for the SRCA including habitat restoration activities
- The differences between outright acquisition and the use of conservation easements
- Achievement of the meander belt target for the Sacramento River as described on page 185 in Vol. II of CALFED's Ecosystem Restoration Plan

#### **Study Design/Identification of Local Benefits**

Although the literature survey portion of the proposed study is separable from the cost estimation component, we do not consider it appropriate to present costs without some discussion of benefits; it would be too easy for some readers to interpret the numerical cost estimates as net costs to the County.

We are proposing to examine only those benefits that would accrue directly to the local economy. This is limited to recreational benefits including increased visitors and associated spending resulting from improved quality of fishery habitat. There are a number of studies available measuring the impact of changes in resource quality on willingness to pay. Travel cost studies have been used to measure the value of increased fish populations for a number of species. The results of these studies can be used to project a range of benefits for various degrees of success in achieving the CALFED vision of increased populations of commercially valuable species.

#### **Project Schedule**

We project that the entire study could be completed within eighteen months provided that funding is obtained soon enough that work can begin no later than October 1, 1999. Assuming that start date, the final report would be completed no later than March 31, 2001. The following is a schedule of critical tasks and completion dates. There is sufficient time allocated to each task that there is a very high probability that it will be completed by the scheduled date.

<b>Scheduled Task</b>	<b>Completion Date</b>
Project Management	Throughout project
Data collection and refinement	March 31, 2000
Initial model construction	March 31, 2000
Model refinement and interpretation	September 30, 2000
Benefit estimates/ Literature survey	September 30, 2000
Preliminary Report	October 31, 2000
Comment period	January 31, 2001
Final Report	March 31, 2001

### **Intermittent Reports/Key Deliverables**

The timetable for completing particular subsections of the study makes certain dates logical ones for submitting progress reports. This is not to exclude the possibility of regular, periodic reports; however, the following dates are for the critical submissions.

<b>Report Subject</b>	<b>Submission Date</b>
Preliminary cost estimates from initial model runs	March 31, 2000
Summary results from model refinements and least cost approaches to creating the SRCA	September 30, 2000
Preliminary benefits estimates	September 30, 2000
Preliminary Report	October 31, 2000
Summary of public comments	January 31, 2001
Final Report	March 31, 2001

### **Location and Geographical Boundaries**

The proposed impact analysis is for a case study of the effects on the economy of Glenn County. The study area includes the 48,165 acres within the County and inside the boundary of the one hundred year flood plain for the Sacramento River. It is the portion of the river between river miles 164 and 206 and includes portions of the "Red Bluff Diversion Dam to Chico Landing", "Chico Landing to Colusa" and "Butte Basin" Ecological Management Units. The 1:186,000 map showing the project area outline is included as an attachment.

## **ECOLOGICAL/BIOLOGICAL BENEFITS**

### **Project Need**

The proposed study provides no direct ecological/biological benefits; rather, it evaluates the local economic impacts associated with the creation of the SRCA. To the extent that the knowledge acquired facilitates the Sacramento River Advisory Council's effort to create the SRCA, the project "...will help protect or expand the existing meander belt and associated flood plain, thereby preserving or enhancing many of the ecological processes and habitats that support a diversity of plant, fish and wildlife species" (CALFED,1999;p.20). Among the tasks included within the proposed study is an assessment of the alternative means for adding property to the SRCA. This subtask involves assessing the differential economic impacts of land acquisition and the purchase of conservation easements. The information provided by this analysis will be useful, in conjunction with data on habitat optimization, for determining the best method for achieving the goals of the SRCA. The local economic impact is one of the important factors to be considered in determining the appropriate configuration for an expanded meander belt.

### **Linkage to Past and Future Projects**

The CSU, Chico Research Foundation received funding during 1999 for the purpose of doing a study assessing the impact of past State and Federal land acquisitions in the SRCA on Glenn County property tax revenues. The study, funded by the U.S. Fish and Wildlife Service (USFWS), is currently in the preliminary report/public comment phase and will be completed early this summer. That analysis focused on property tax and special district revenue impacts for past land acquisitions by USFWS, California Department of Fish and Game (DFG) and the California Wildlife Conservation Board (WCB). The scope of the study included neither revenue impacts from future land acquisitions nor the effects of lost agricultural output. In addition, the affected parcels were not separated according to land use, but rather, all were assumed to be used (or useable) for agriculture with the parcel values escalating at the average rate for California farmland.

The study described in this proposal will avoid the simplification of assuming homogeneous quality for all affected farmland since the database is crop specific; therefore, it will allow us to refine the results from the USFWS study. Of course, the scope of the project proposed here is much broader in that all aggregate economic impacts will be assessed for all Glenn County lands slated for inclusion in the SRCA.

The proposed study will also provide a template for analyzing the local economic impacts of land additions to the SRCA for other counties. Should additional studies be needed, this case study will provide an outline of data requirements and methodology that will greatly simplify the task.

The main system-wide ecosystem benefit is that this research will provide a valuable model for other counties to duplicate. This research produces no known conflicts and it supports the goals and objectives of the CALFED Watershed Workgroup. There is a potential benefit to third parties in that it furthers the current body of knowledge, provides the most up-to-date information for local government authorities responsible for land use decisions, and provides valuable information for landowners as well.

## **TECHNICAL FEASIBILITY**

### **Alternatives Considered**

There has been considerable discussion among the individuals involved in structuring this study concerning the type of model to be used for estimating local economic impacts. Initially, we favored the Economic Demographic Forecasting and Simulation (EDFS) model marketed by Regional Economic Models, Inc. (REMI) of Amherst, Massachusetts. The strengths of the model include a dynamic forecasting capability not available with conventional input-output models; however, after doing some analysis with a trial version of REMI made available to us by the company, we found the model to be inadequate for assessing economic impacts in the agricultural sector. Specifically, the agricultural sector in the REMI model is incompletely integrated and simulated from an adjusted national table. We concluded that these flaws made the model inappropriate for the needs of the proposed study.

IMPLAN was chosen for its more realistically constructed agricultural sector. The lack of a dynamic forecasting capability can be partially overcome by doing projections for fixed intervals such as five or ten years. A series of static projections will allow the model to capture changes in the most critical economic variables. The possible exception is the link between wage changes and population growth; however, this linkage would be a consideration only in the event that local impacts include significant changes in employment. If that turns out to be the case, there are methods available to adjust the IMPLAN results to account for labor market effects.

## **DATA COLLECTION AND METHODOLOGY**

### **Data Collection Techniques**

The primary data source for parcel specific information is the Geographic Information System (GIS) at CSU, Chico. The system provides parcel numbers and existing land uses for all lands in the one hundred year flood plain. Links with the Glenn County Assessors Office database provide, tax rate areas, assessed value, and the base year for appraisals. That information is sufficient for determining impacts on property tax and special district revenues resulting from public land acquisition. The land use data, in conjunction with price and production data from the 1997 Census of Agriculture, permits estimation of changes in the value of County agricultural output.

Where parcel numbers have changed due to realignment, the Assessor's maps and master lists can be used to fill in gaps in the database. This is a problem we encountered during the data collection phase of the study funded by the USFWS, particularly for properties bordering the Sacramento River. Although it was a labor intensive process, we found that the Glenn County Assessors Office could provide the necessary information.

### **Monitoring/Data Evaluation**

Data will be collected from existing sources providing inputs to the IMPLAN model. Projections of future impacts will be based on the initial data base. Monitoring is not applicable in this case. Data evaluation will be through the model outputs and associated sensitivity analyses.

### **Type of Sample**

Local economic impacts are to be measured for all parcels in Glenn County within the boundaries of the one hundred year flood plain for the Sacramento River; therefore, the sample size is the population potentially impacted by the creation of the SRCA.

**Table 2. Monitoring and Data Collection Information**

Hypothesis	Monitoring Parameters Data Collection Approach	Data Evaluation Approach	Comments/ Data Priority
* Are there significant local economic costs associated with public land acquisitions and habitat restoration activities within the SRCA?	* Use of existing data from the GIS at CSU, Chico and from the Glenn County Assessment Rolls. Data on crop yields and values obtained from the 1997 Census of Agriculture and other existing sources. Monitoring does not apply.	* Data evaluation will be through the impact projections provided by IMPLAN. The importance of assumptions and data errors will be assessed using a series of sensitivity analyses.	* Not applicable.
* Are there alternative means for configuring the SRCA that would involve a smaller cost burden to local economies?	* Benefits will be evaluated based on the results of existing studies. All data will be from a literature survey.	* The range of benefit estimates applicable to the specific habitat and species augmentation in the local study area will be presented.	
* Is it likely that habitat restoration will provide significant benefits to the local economy?			

## **LOCAL INVOLVEMENT**

For an earlier version of the study, the Technical Advisory Committee (TAC) participated in the design and proposal writing phases. During the time that the work was accomplished we had two meetings with the Committee. At the April, 1998 meeting the members present offered suggestions as to what elements they would like to see included in the study. A rough draft of the proposal was mailed to the members for comment. A second meeting was held in early June, 1998 to discuss the committee members' responses to the rough draft and to consider the appropriate structure for an expanded economic impact analysis. A revised proposal was e-mailed to the members on June 22, 1998. The comments received were incorporated into a preliminary proposal sent to USFWS in August, 1998. This current proposal incorporates the input of the TAC for all major aspects of the study design.

On March 10, 1999 copies of the enclosed letter, along with a preliminary draft of the study funded by the USFWS, were delivered to the members of the TAC at a regular meeting of the SB1086 Committee. Other interested individuals received copies of the letter. Copies of the letter and responses are included as an attachment.

A letter was sent to the Glenn County Board of Supervisors and John Benoit, Director of Resource Planning and Development for Glenn County, officially notifying them of the submission of this proposal to CALFED's February 1999 proposal solicitation package. A copy of this letter is included as an attachment.

Letters of support identifying the local groups, landowners and other interested organizations are also included as attachments. There are no known third party impacts. Upon completion of the preliminary report public input will be solicited and its substance incorporated into the final report. It is expected that, following approval by CALFED, presentations will be made before various interested groups. Appropriate groups include the SB1086 Workgroup and Advisory Committee, the Sacramento River Landowners Association, the Watershed Conservancy and the Glenn County Board of Supervisors.

### **Technical Advisory Committee**

John Benoit - Director of Resource Planning and Development for Glenn County

Denny Bungarz - Member of the Glenn County Board of Supervisors, District 3, and Chair of the SB1086 Committee

Burt Bundy - Coordinator of the SB1086 Committee

Ramon Vega - U.S. Fish and Wildlife Service

Vince Minto - Glenn County Assessor

Sam Larson - The Nature Conservancy

John Merz - Sacramento River Preservation Trust

John Carlon - Sacramento River Partners

**COST**

**Table 3 - Budget Breakout**

Task	Direct Labor Hours	Direct Salary and Benefits	Service Contracts	Material and Acquisition Costs	Other Direct Costs	Overhead and Indirect Costs	Total Cost
Data Collect/ Model	120	\$5,712	\$10,000	\$2,410	\$159	\$2,142	\$20,423
Model Refine	200	\$7,974	\$7,000	\$0	\$79	\$2,990	\$18,043
Benefit/ Lit Survey	160	\$6,250	\$0	\$150	\$0	\$2,344	\$8,744
Project Manage/ Report	256	\$9,542	\$2,057	\$563	\$79	\$3,578	\$15,819
Task Total	736	\$29,478	\$19,057	\$3,123	\$317	\$11,054	\$63,029

\*State Indirect (20%) = \$10,395

**Table 4 - Quarterly Budget**

Task	Quarterly Budget Oct-Dec 1999	Quarterly Budget Jan-Mar 2000	Quarterly Budget Apr-Jun 2000	Quarterly Budget Jul-Sep 2000	Quarterly Budget Oct-Dec 2000	Quarterly Budget Jan-Mar 2001	Total Budget
Data Collect/ Model	\$15,000	\$5,423	\$0	\$0	\$0	\$0	\$20,423
Model Refine/ Interpret	\$0	\$0	\$9,022	\$9,021	\$0	\$0	\$18,043
Benefit/ Literature Survey	\$2,186	\$2,186	\$2,186	\$2,186	\$0	\$0	\$8,744
Project Manage/ Report	\$1,048	\$1,048	\$1,048	\$1,048	\$4,651	\$6,976	\$15,819
Total	\$18,234	\$8,657	\$12,256	\$12,255	\$4,651	\$6,976	\$63,029

The final task, Project Management and Report Writing, includes the following responsibilities:

- \* Preparation of all reports including quarterly reports, the preliminary report and the final report;
- \* Coordination of activities under the service contract with the model construction activities in Tasks 1 and 2;
- \* Provision of a liaison with the Technical Advisory Committee;
- \* Compilation of comments from the public input phase following release of the preliminary report; and,
- \* Presentations before appropriate groups following release of the final report.

**COST-SHARING**

Property tax data for parcels publicly acquired within the SRCA prior to 1998 were collected in the process of undertaking a study funded by the USFWS. That phase of data collection was labor intensive due to the fact that many parcels were reformed and renumbered in the years prior to public acquisition. Fortunately, that portion of the data collection process will not need to be repeated, thus saving at least one week's labor time. Additional cost sharing is anticipated in the form of assistance from Glenn County offices. The Assessor and staff from his office, the County Recorder's Office, and a number of other County departments provided valuable assistance on the earlier study without compensation. The County's commitment to resolving the issues this study addresses makes the ongoing cooperation of County staff a certainty.

## APPLICANT QUALIFICATIONS

The Foundation and the associated primary researchers are qualified to perform the analysis described in this proposal. Primary data generation and mapping will be completed by the Geographical Information System staff. Project management, the literature survey and report writing will be the responsibility of Dr. David Gallo, an environmental economist. The tasks involving construction, implementation and refinement of the IMPLAN model will be assumed by Dr. Ronald Adams, a regional economics specialist. The professional qualifications of the primary researchers are included in the following biosketches.

### David E. Gallo

Education: Ph.D. in Economics, University of Oregon, Eugene OR, 1974  
M.A. in Economics, University of Oregon, Eugene OR, 1970  
B.A. in Economics, Pennsylvania State University, State College PA, 1966

Experience: 1984 - 1992 Senior Associate Economist, JBS Engineering, Inc.  
1979 - Present Professor of Economics, California State University, Chico  
1974 - 1979 Associate Professor of Economics, CSUC  
1970 - 1974 Assistant Professor of Economics, CSUC

### Publications and Research:

"The Impact on Glenn County's Property Tax Revenues of Public Land Acquisitions in the Sacramento River Conservation Area". Funded by the USFWS for 1998-1999.  
"On benefits of Accelerated Project Completion—Torbelva Hydropower Third Extension Project, Units 11-14" with W. Marcus for JBS Engineering, February 1986.  
"Electric Utility Purchase/Generation Tradeoffs: Gas Pricing Implications" with J. Kaiser and R. Weatherwax for Sierra Energy and Risk Assessment, Inc., September 1985.  
"Financial Analysis of the Digger-Battle Creek Hydroelectric Project", February 1984.  
"The Financial Feasibility of Coon Creek Hydroelectric Project: A Preliminary Analysis", 1983.  
"Innovative Regulatory Incentives for Improving Power Plant Planning and Performance" with B.D. Brown, L.M. Danielson, and R. Grix for the Office of Policy and Program Evaluation, California Energy Commission, April 1983.  
"Preliminary Status Report: French Creek Power Plant", January 1982.  
"Measuring the Income Distribution Effects of Alternative Energy Policies" for the California Energy Commission, Contract No. 10081-001, 1982.

### Ronald G. Adams

Education: Ph.D. in Economics, Kansas State University, Manhattan KS, 1975  
B.A. in Business Administration and Economics, Fort Lewis College CO, 1967

Experience: 1983 to Present Professor of Economics, California State University, Chico  
1983 to 1985 Chairman, Department of Economics, CSUC  
1975 to 1983 Associate Professor of Economics, CSUC  
1971 to 1975 Assistant Professor of Economics, CSUC  
1973 to 1976 Director of Research and Data Collection, CSUC  
1970 to 1971 Instructor of Economics, Kansas State University

**Publications and Research:**

- "Impact on Glenn County Property Tax Revenues of Public Land Acquisitions in the Sacramento River Conservation Area" with D. Gallo. Funded by the USFWS, 1998-1999.
- "Economic Benefits from Reduced Atmospheric Lead" with Dennis Hefner and Armeda Fretwell, Air Resources Board, State of California, 1982.
- "Community Development Policies in Central Butte County" with Jon Ebeling and Larry Brooks, Monograph for Butte County Association of Governments. Funded by the U.S. Department of Housing and Urban Development, 1976.
- "Preliminary Report-Lake Oroville Watershed Study" as one of the senior staff of PDM Associates for the Butte County Association of Governments, 1975.
- "Economic Base Study for the Plumas National Forest" with Robert Fischer, Center for Business and Economic Research, U.S. Forest Service, 1975.
- "Alternate Land Uses in the Feather Falls Area and Their Effect on Butte County Cost and Revenue Streams" with R. Fischer, D. Gallo and M. Perelman, Center for Business and Economic Research, U.S. Forest Service, 1973.
- "Interindustry Projections of the Kansas Economy" with M. J. Emerson, Monograph for the U.S. Bureau of Reclamation, 1972.

**Charles W. Nelson**

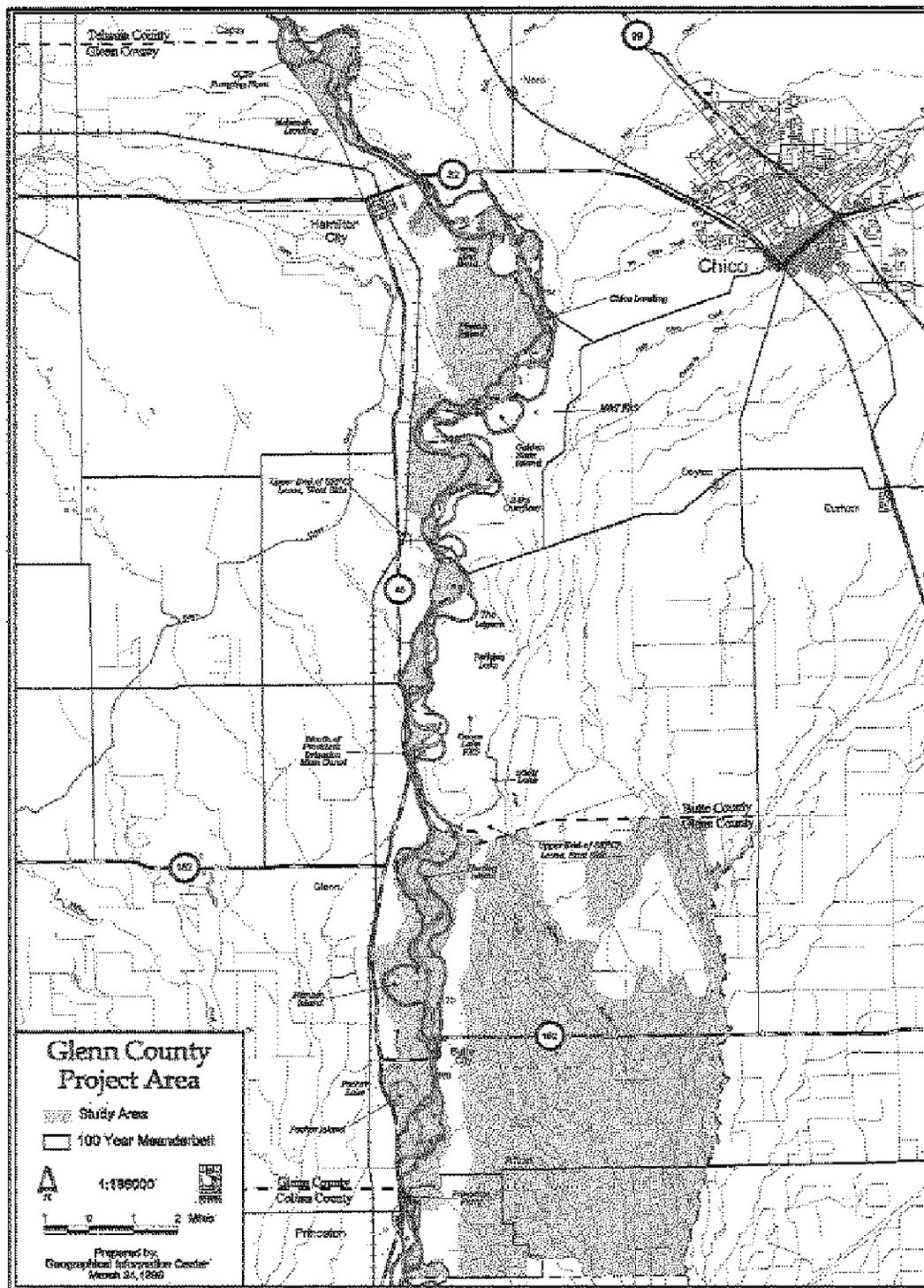
Education: M.A. in Geography, California State University, Chico, 1978  
B.A. in Geography, California State University, Chico, 1972

Experience: 1995 to Present Director, Geographical Information Center, CSUC  
1998 to Present Adjunct Research Professor in Geography, CSUC  
1978-1995 Project Director/Cartographic Analyst, CSUC  
1976-1995 Professional Cartographer/Graphic Computer Systems

Community Service: Development Review Committee - County of Butte, CA. 1995-Present  
Planning Commissioner - County of Butte, CA. 1991-Present  
Mayor/Vice Mayor - City of Chico, CA. 1986-1990  
Planning Commissioner- Planning Commission, City of Chico. 1977-1984

**Recent contracts of the Geographic Information Center using ARC/INFO or ArcView software:**

Sacramento River Stream Corridor Protection Program - Phases 1-4  
Butte, Deer, Big Chico, and Battle Creek Conservancy Mapping  
Cantara Vegetation Mapping  
Mapping of Sacramento-San Joaquin Delta Islands  
Sacramento River Access: Peterson Addition  
San Joaquin Valley Vernal Pool Mapping  
Tehama County Vernal Pool Mapping



California State University, Chico  
Chico, California 95929



The School of Graduate, International, and Sponsored Programs  
Graduate Programs 916-898-5391 Zip: 0875  
International Programs 916-898-6680 Zip: 0680  
Sponsored Programs 916-898-5700/4044 Zip: 0870

Tuesday, March 9, 1999

To: The Sacramento River Advisory Council

From: David Gallo and Ron Adams



The Research Foundation at California State University, Chico is proposing to do a study measuring the economic impacts of the creation of the Sacramento River Conservation Area (SRCA). The proposal is for a case study of the effects on Glenn County. The Foundation is applying for funding from CALFED for the 1999 -2000 year. It is expected that, if the proposal is accepted, work will begin in the fall, 1999 and be completed within a year. The possibility of additional funding from the U.S. Fish and Wildlife Service (USFWS) is also being investigated. If that funding is obtained for the summer of 1999, data collection could begin in June 1999 and preliminary results for the economic cost portion of the study would be available by the end of January 2000.

A study, more limited in scope, was funded by the USFWS for the 1998-1999 year. The study, nearing completion, measures the impact of past land acquisitions in the SRCA on Glenn County's property tax revenues.

The CALFED proposal is for a comprehensive study of the economic impacts that would result from completion of the SRCA meander belt, including land acquisition and habitat restoration. The proposed study will focus on costs and will include:

- The changes in property tax and special district revenues that would result from further land acquisitions by USFWS and the State Wildlife Conservation Board in the SRCA. The methodology used in the USFWS funded study will be applied to all property targeted for acquisition in the portion of the proposed meander belt located in Glenn County.
- The changes in agricultural output and employment that would result from land acquisition and habitat restoration within the proposed meander belt. The estimated impacts will include indirect effects on input suppliers, processors of raw agricultural products, and County revenues. The analysis will be done using an input-output model. Data on agricultural output would be gathered from the CSU, Chico Geographical Information System and the USDA Census of Agriculture.

- Assess the local and regional economic benefits of the creation of the SRCA. In order to quantify the benefits, a more comprehensive study, including extensive fieldwork, would be necessary. However studies have been done for other areas measuring recreational benefits, the value of enhanced wildlife populations, increased local spending by anglers and other visitors, and the water quality benefits of creating a buffer zone to absorb the runoff from agricultural operations. While the results of these studies cannot be used directly to measure the benefits of creating the SRCA, they are indicative of the types and significance of benefits that can be expected.

As part of the proposal preparation process CALFED requires notification of interested organizations including local government entities, environmental groups, and landowner organizations. CALFED also requests that we solicit information from the various groups notified, indicating their support for, or opposition to the project. Letters indicating your group's position on the need for the study described in this letter must be received by April 10, 1999. The due date for proposal submissions is April 16, 1999. Letters can be sent to:

Environmental Resource Program  
Research Foundation  
CSU, Chico, Kendall Rm. 111  
Chico, CA 95929-0870

Many of those receiving this letter were previously aware of the Foundation's intent to submit a proposal for a study of similar design. The Technical Advisory Committee, formed in the spring of 1998, reviewed a proposal for a similar comprehensive economic impact analysis using Glenn County as a case study. The Committee was supportive of the need for such an analysis during the April and June meetings. It is our hope that those receiving this letter will express their support in writing to CALFED.

Sincerely,



March 9, 1999

To: Technical Advisory Committee  
From: David Gallo and Ronald Adams  
RE: Rough draft of the Glenn County property tax study

We are enclosing a rough draft of the study, funded by the U.S. Fish and Wildlife Service, on the property tax revenue impacts of State and Federal land acquisitions in the Sacramento River Conservation Area. While the presentation is rather sketchy at this point and the conclusions are tentative, we felt that it was a good time to submit what we have done to the Committee for comment. Any comments about omissions, language, clarity (or lack thereof) of the presentation on the model's structure, appropriateness of assumptions used in the model, or other aspects of the preliminary draft would be appreciated. Where possible your comments will be incorporated into the final draft.

We would like to schedule a meeting with the Committee to discuss the draft and proposed changes. A location in Willows would probably be convenient for the majority of Committee members. In order to complete the study as soon as possible we would prefer a meeting date during the week of March 22-26. That would give us enough time to refine the model results. Hopefully, it would also give the Committee members sufficient time to submit comments on the draft document.

Comments may be submitted by mail to:

David Gallo  
Department of Economics  
CSUC  
Chico, CA 95929-0430

Or, emailed to:

DEGallo@mesquite.csuchico.edu

#### TECHNICAL ADVISORY COMMITTEE

- John Benoit- Director of Resource Planning and Development for Glenn County
- Denny Bungarz- Member of the Glenn County Board of Supervisors, District 4
- Burt Bundy- Chair of the SB1086 Committee
- Ramon Vega- U.S. Fish and Wildlife Service
- Vincent Minto- Glenn County Assessor

- The Nature Conservancy
- John Merz- Sacramento River Preservation Trust
- John Carlon- Sacramento River Partners

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## Introduction

The purpose of this study is to examine the impacts on local property tax revenues of Federal and State land acquisitions along the Sacramento River. Land is being purchased from private owners for various purposes including habitat preservation and restoration. Local government officials have expressed concerns that converting privately held lands to government ownership will erode the tax base.

## Scope of the Study

Loss of property tax revenues is but one of the economic issues concerning local officials. As land is removed from agricultural production for habitat restoration or other purposes not resulting in marketable output, the consequences may include reduced local GDP, employment, and other sources of local government revenue. Although these additional economic impacts are of concern to local decision makers, they are beyond the scope of this study. The study is limited to the examination of the impacts of government land acquisition on property tax and special district revenues.

While this study does not examine all potential costs to local economies, it includes none of the potential benefits associated with the programs driving the government land acquisition process.

Possible benefits include reduced flood damage to lands remaining in private ownership, increased ground water recharge, reduced runoff of agricultural chemicals into the Sacramento River, and enhanced wildlife habitat. Some of these may provide direct benefits to the local economy. For example, if habitat improvements lead to an increase in fish populations and thus an influx of anglers, the additional local spending could boost local economic activity and sources of local government revenue, particularly sales taxes.

It is not within the scope of this study to estimate the magnitude of benefits. In fact the results in no way presume that measurable benefits exist. Any costs to the local economy beyond direct impacts on property tax revenues are also outside the purview of this study. Therefore it is important that the reader not assume that the study results are indicative of the costs and benefits of habitat restoration, environmental preservation, or any other program goal.

The study is limited to land acquisitions within Glenn County, California. The decision to focus on a single county was based on funding limitations, while the particular choice of Glenn County was due to a combination of local interest and a willingness of local officials to assist in data collection and other aspects of the study. However, the results should be applicable to other counties along the Sacramento River.

## Methodology

### Property valuation

The target area for the study is land adjacent to the Sacramento River in Glenn County. Land acquisitions included in the study are those properties subject to potential flooding from the River. Therefore parcels include only those from assessor map books 13, 15, 16, 19, 23, 32, and 37. The sample of properties acquired by the State and Federal governments is further limited to those purchased between 1980 and 1998. This additional restriction eliminates very few properties from consideration (less than 10% of the acquired properties) and was necessary due to the difficulty of determining pre-sale values.

The values for acquired properties were determined prior to sale to the respective Federal or State agency. In cases where the Nature Conservancy purchased property from a private owner and then sold it to a government entity within a year, the assessed value prior to the initial sale was used. Each parcel value and the base year for appraisal were found in the Assessors Master Lists. In the case where a parcel was split prior to sale, but the entire parcel was sold to the State or Federal government, the value of land and improvements was allocated to the portions of the original parcel based on relative acreage. Where a portion of the original parcel remained in private ownership, the appraisal value of the privately held parcel was subtracted from the value of the entire parcel to determine the value of the part purchased by the government agency.

The prices paid by the State and Federal governments were determined from two separate sources. For State property acquisitions the purchase price is equal to the current valuation on the invoice for in lieu taxes paid to the County. For properties purchased by the Federal government the prices paid were found on the sale documents from the County Recorders Office. In the one case where the Nature Conservancy purchased a property and did not resell it to a State or Federal entity, the purchase price was obtained from the Assessor's Master Lists, the source of appraised values for all privately held parcels.

### Property Tax Payments

The purpose of the study is to compare Federal and State in lieu payments to the property taxes that would have been paid had the acquired lands remained in private ownership. In the case of the State, in lieu payments are calculated as the product of the original price paid for the property and the applicable tax rate for the particular tax rate area. The in lieu taxes paid by the State on any parcel remain constant over time. This is because the State does not re-appraise properties and does not change the tax rate even if the rate changes for the appropriate tax rate area.

The Federal government computes in lieu taxes owed to counties at three-quarters of a percent of the appraised value. The initial appraised value is equal to the purchase price, but unlike the State, the Federal government re-appraises

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its holdings every five years. Therefore, in any year the Federal in lieu owed the County is three-quarters of a percent of the current appraised value. However, the actual amount the County receives depends on the Federal budgetary process and has been as little as sixty-five percent of the amount owed.

For a privately held parcel property taxes paid are the product of the assessed value and the tax rate for the particular tax rate area. The assessed value is generally equal to the purchase price adjusted for changes such as improvements and inflation. The annual inflation adjustment is equal to the increase in the California CPI up to two percent. The inflation adjustment is from the base year appraisal (1975 is the base year for all properties purchased prior to that year); that is, the value in the year the current owner purchased the property.

### The Model

A spreadsheet model is used to compute the property taxes paid under Federal, State, and private ownership. For properties acquired by the State or Federal government, property taxes are computed assuming the land had remained in private ownership. The assessed value used to calculate hypothetical property taxes paid is the base year value adjusted by two percent per year for inflation. Reappraisal is assumed to occur at resale and model runs are made for resale frequencies ranging from ten to twenty years. The real rate of increase in land values is equal to the average annual increase in California farmland values for the 1980-1998 period less the average annual inflation rate. The rate of increase in land prices and thus appraised value, for properties transferred between private parties, is equal to the sum of the real rate of increase in farmland prices and the assumed future rate of inflation.

For properties acquired by the Federal government, the projected in lieu taxes will be computed based on the purchase price, the tax rate, the percentage of in lieu actually paid, and the values determined by periodic re-appraisal. In lieu taxes paid for the five year period following purchase equal the price paid times three-quarters of a percent times the percent of in lieu actually paid. Since the latter has generally varied between seventy and eighty percent, separate projections will be done for each value. Five years following the initial public purchase, the appraised value of the land is increased to reflect its then current market value. The adjustment in market value is accomplished using the adjustment factor described above for privately held lands. The re-appraisal process continues in the same manner at five year intervals and Federal in lieu payments to Glenn County are computed according to the formula described at the beginning of this paragraph.

In lieu taxes paid by the State are constant over time and are the product of the tax rate and the initial purchase price of the property. Therefore, for State land acquisitions no adjustments for re-appraisal or changes in tax rate areas are necessary and first year and nth year payments are identical.

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Some of the public land acquisitions include property with improvements. The improvements, which under private ownership are taxed at the same rate as are land values, may include structures, orchard trees, etc.. Since agricultural production is not the intended purpose of public land acquisitions, it is reasonable to assume that these improvements will be allowed to depreciate over time. The decrease in the value of improvements has no effect on State in lieu paid as the value is frozen at the initial purchase price. But in the case of Federal holdings, the amount of the periodic re-appraisal will be affected by the depreciation. For purposes of this study we will separately consider straight-line depreciation over a ten year and a twenty year period for all improvements on Federally held property. The amount of depreciation is deducted from the escalation in the value of unimproved land to determine the increase in the base for in lieu payments at the point of re-appraisal. In the case of land remaining in private ownership (no transfer to Federal ownership), it is assumed that the improvements are maintained and rise in value at the rate of increase in the California CPI.

### **Allocation of Property Tax Revenues**

While the total amount of property tax or in lieu revenues are important to the County, whether they are paid into the County General Fund or the State School Fund is also an important consideration. In the case of privately held lands the tax rate in excess of one percent of assessed value is paid to special districts. Of the remaining one percent of assessed value, eighty percent goes to the school fund and twenty percent goes to the general fund. For State in lieu paid to the County, one hundred percent goes to the general fund. Federal in lieu, by contrast, is allocated in the same manner as property taxes paid on privately held parcels.

As a result of the differences in allocating in lieu payments to the various County funds, the model examines the impact on each of the funds separately. Federal, State, and private ownership are examined in terms of the impact on general fund, schools, and special district revenues.

### **Model Output**

The projections of County property tax or in lieu revenues are presented in several forms. Revenues from Federal in lieu payments are compared with property tax revenues from hypothetical continued private ownership of the Federally held properties. Revenues from State in lieu payments similarly are compared to the property tax revenues that would accrue to the County under continued private ownership. The comparisons are made separately for the general fund, schools, and special districts. Comparative payments to the three funds are presented for ten, twenty, and thirty years into the future. The present value of the future revenues is also calculated for each ownership category to provide a consistent basis for long term comparisons.

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Where the value of critical variables cannot be reliably determined from available data, a sensitivity analysis is performed by making separate runs for two or more values, covering the range of probable values, and then comparing the results. Frequency of sale for privately held properties, the rate of depreciation for improvements on Federally held lands, the general rate of inflation, the ratio of Federal in lieu payments made to the amount due, and the discount rate are the key variables for which sensitivity analyses are performed.

### Public Participation

#### Technical Advisory Committee

- John Benoit- Director of Resource Planning and Development for Glenn County
- Denny Bungarz- Member of the Glenn County Board of Supervisors, District 4
- Burt Bundy- Chair of the SB1086 Committee
- Ramon Vega- U.S. Fish and Wildlife Service
- Vincent Minto- Glenn County Assessor
- The Nature Conservancy
- John Merz- Sacramento River Preservation Trust
- John Carlon- Sacramento River Partners

The Technical Advisory Committee participated in the design and proposal writing phases of the study. During the time that work was accomplished we had two meetings with the Committee. At the April, 1998 meeting the members present offered suggestions as to what elements they would like to see included in the study. A rough draft of the proposal was mailed to the members for comment. A second meeting was held in June, 1998 to discuss the members' response to the rough draft and to consider the appropriate structure of an expanded economic impact analysis. A revised proposal was e-mailed to the Committee members on June 22, 1998. The comments received were incorporated into the final proposal.

During the data collection phase, Vince Minto, the Glenn County Assessor, and his staff provided assistance in determining the values of various privately held parcels, the methods for computing State and Federal in lieu payments to the County, and invaluable assistance in other key areas. In January and February of 1999 we made eight separate trips to the County offices in Willows for data collection and consultation with County staff members.

A rough draft of the study was completed in March, 1999 and sent to each of the members of the Advisory Committee for comment. That was followed by a meeting to discuss changes and additions suggested by Committee members.

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## Study Results

The preliminary results of the spreadsheet model are contained on the following pages. The runs were for a narrow range of assumptions and do not include all of the possibilities that will be included in the final version. The only variable for which the sensitivity of the results is tested is the real rate of increase in farm land values. For that variable values of zero, one, and 1.57 percent annual real increases are used, corresponding to actual increases of three, four, and 4.57 percent per year respectively.

The remaining assumptions are listed on the cover sheet for each run of the spreadsheet model. At the bottom of each page titled "assumptions" are the results of the run. For example, for the model run using 1.57 percent annual real increase in farmland values (based on the 1954-1995 rate of increase for the U.S.), the present value of payments to the general fund for properties held by the DFG are \$704,314. If those same properties had remained in private ownership, the present value of the property tax revenues to the County General Fund would have been \$295,566. For Federal ownership under the USFWS, the present value of property tax revenues is lower than it would have been under continued private ownership. The present value of Federal in lieu paid (assuming payment of 80% of the amount due) to the County is \$466,056, whereas continued private ownership of those same properties would have generated property tax revenues with a present value of \$636,623.

For the model runs using lower assumed real escalation in farmland values, the advantage of State in lieu payments over private property tax payments to the general fund is larger. This is because the basis for determining State in lieu is the original purchase price, while private property tax payments rise with the increase in land values. However, the proportionate loss due to Federal ownership is roughly the same in all cases and does not appear to be sensitive to the assumption regarding the real farmland escalation rate.

DKAFI

Woolstreet

APN		Current Owner		Assessor's		Previous Owner		Assessment		Value		Land		Improvements		Taxes		Rate		Transfer		Acquired	
APN	Area	Recording	Date	Year	Area	Year	Area	AD Year	BY Year	AD Year	BY Year	Value	Area	Area	Area	Area	Area	Area	Area	Area	Area	Area	Year
37100119	Acres 11.30	0407096	11/01/84	CH	11.30	1984	11.30	50002	81	50002	81	4735	15835	763.0	1.640	0407096	1.640	0407096	1.640	0407096	1.640	0407096	86
37100120	Acres 50.16	1001041	11/01/84	CH	50.16	1984	50.16	50002	81	50002	81	4526	1920	1920	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	84
37100121	Acres 4.71	0301058	11/01/84	CH	4.71	1984	4.71	50002	81	50002	81	17414	10157	7277	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	86
37100122	Acres 3.16	0301058	11/01/84	CH	3.16	1984	3.16	50002	81	50002	81	82407	41058	4158	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	86
37100123	Acres 3.16	0301058	11/01/84	CH	3.16	1984	3.16	50002	81	50002	81	82407	41058	4158	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	86
37100124	Acres 11.31	0501058	11/01/84	CH	11.31	1984	11.31	50002	81	50002	81	82407	41058	4158	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	86
37100125	Acres 4.14	1101064	11/01/84	CH	4.14	1984	4.14	50002	81	50002	81	4116	418	0	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	84
37100126	Acres 319.27	0101064	11/01/84	CH	319.27	1984	319.27	50002	81	50002	81	622824	352924	352924	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	82
37100127	Acres 72.02	0101064	06/01/88	CH	72.02	1988	72.02	50002	81	50002	81	147352	584716	584716	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	82
37100128	Acres 187.61	1101064	11/01/84	CH	187.61	1984	187.61	50002	81	50002	81	114821	802125	802125	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	84
37100129	Acres 0.19	1101064	11/01/84	CH	0.19	1984	0.19	50002	81	50002	81	42	32	0	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	84
37100130	Acres 9.54	1101064	11/01/84	CH	9.54	1984	9.54	50002	81	50002	81	659	340	0	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	84
37100131	Acres 173.31	1101064	06/01/88	CH	173.31	1988	173.31	50002	81	50002	81	111009	93817	27792	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	84
37100132	Acres 298.58	0101064	06/01/88	CH	298.58	1988	298.58	50002	81	50002	81	570511	341337	418664	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	84
37100133	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100134	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100135	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100136	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100137	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100138	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100139	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100140	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100141	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100142	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100143	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100144	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100145	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100146	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100147	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100148	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100149	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100150	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100151	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100152	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100153	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100154	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100155	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100156	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100157	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100158	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100159	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100160	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100161	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.640	1001041	1.640	1001041	1.640	1001041	87
37100162	Acres 1.02	0407096	05/01/88	CH	1.02	1988	1.02	50002	81	50002	81	46338	24193	26965	1.640	1001041	1.						

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Worksheet

Current Owner				Previous Owner															
APN	Item	Acres	Recording Date	Assessment Year	Value	Tax Check	Improvements	Taxes	Tax Rate	Tax Rate Area	AD Year	Assessment BY Year	Value	Land	Improvements	Taxes	Tax Rate	Transfer To New	Acquired Tax Year
130300229	Calif	147.96	04/30/90	1988	156562			1501.94	1.023	31045	80	79	159592	156592	0		1.000	4/1/90	89
130300229	Calif	505.09	04/30/90	1989	324763			3322.32	1.023	31045	89	79	324763	319516	9245		1.000	4/1/90	89
130200079	Calif	133.80	04/30/90	1988	126780			1296.96	1.023	31045	89	79	126780	126780	0		1.000	4/1/90	89
130200069	Calif	18.43	04/30/90	1989	1902			19.48	1.023	31045	89	81	1902	1902	0		1.000	4/1/90	89
130200049	Calif	280.26	04/30/90	1989	280142			2866.85	1.023	31045	89	75	280142	278000	2142		1.000	4/1/90	89
130200049	Calif	26.00	04/30/90	1989	31900			327.28	1.023	31045	80	75	31900	28209	3681		1.000	4/1/90	89
161600179	Nevada	119.90	07/01/94	1997	377200			3772.00	1.000	31004	88	88	377200	60480	333120		1.000	07/01/94	11/01/97
161600179	Nevada	314.50	11/01/97	1997	922800			9228.00	1.000	31004	88	88	922800	166260	316710		1.000	07/01/94	88
131400260	Nevada	20.90	12/01/96	1998	19247		0	192.47	1.000	31004	85	82	11245	11245	0		1.000	12/01/96	91

Valco United Steel	1308.67	3788992	0	2284249	1094607	1169642
Wright State of	5620.58	5299500	56345	4903099	4665002	238097
LA County	455.30	1319247	13192	587505	237685	449820

1-016297

1-016297

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## Assumptions

### Assumptions

Land Value Increase real	1.57%
Predicted Inflation Rate	3.00%
Nominal Increase Land	4.62%

### Land Value Increase tax purposes

Pre	1996	2.00%	
	1998	1.60%	used ?
Prop 13 property increase		2.00%	

Depreciation Federal Improvements	
Years	20

### Federal lands reappraised 5 year cycle

Last reappraisal	1995
	95

Years to Revalue Federal properties	5
Percent escalation	4.62%

Federal In Lieu percent	0.75%
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Federal Payment of in lieu percent	80.00%
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Percent tax	1.000%	not used
Percent discount	8.000%	

Special District	0.040%	not used
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Years to Revalue private properties	20	has to be >2
Percent escalation	4.62%	
Past years since revalue	50.00%	10.00
Start Year	1998	
	98	

Real Interest Rate	3.80%
Predicted Inflation Rate	3.00%
Nominal Interest Rate	6.91%
Property Tax Rate	1.00%
Capitalization Rate	7.98%

### U S Land Value Per acre

1954	60	26.9
1995	644	152.4

41	10.73333333	5.865427509	Land/CPI	Real Increase Land
0.024	1.059594923	1.04320949	1.02	1.571%

Present Value	Taxes	Total	General Fund
	Private	1,477,329	295,568
	Calif	704,314	
	Private	836,623	
	America	466,055	

Private

State of California

	Property Value	Tax	Schools	Special Districts	County General Fund	Property Value	Tax	Schools	Special Districts	County General Fund	Surplus or Deficit General Fund
1999	5890869	58958	47047	147	11762	5299506	56345		3350	52995	41233
2000	5998486	60135	47988	150	11997	5299506	56345		3350	52995	40998
2001	6118456	61338	48948	153	12237	5299506	56345		3350	52995	40758
2002	6240825	62564	49927	158	12482	5299506	56345		3350	52995	40513
2003	6365642	63816	50925	159	12731	5299506	56345		3350	52995	40264
2004	6492955	65092	51944	162	12986	5299506	56345		3350	52995	40009
2005	6622614	66394	52983	166	13246	5299506	56345		3350	52995	39749
2006	6755270	67722	54042	169	13511	5299506	56345		3350	52995	39485
2007	6890375	69076	55123	172	13781	5299506	56345		3350	52995	39214
2008	9054576	90772	72437	226	18109	5299506	56345		3350	52995	34886
2009	9235667	92588	73885	231	18471	5299506	56345		3350	52995	34524
2010	9420381	94439	75363	236	18841	5299506	56345		3350	52995	34154
2011	9606788	96328	76870	240	19218	5299506	56345		3350	52995	33777
2012	9800964	98255	78408	245	19602	5299506	56345		3350	52995	33393
2013	9996983	100220	79976	250	19994	5299506	56345		3350	52995	33001
2014	10196923	102224	81575	255	20394	5299506	56345		3350	52995	32601
2015	10400862	104269	83207	260	20802	5299506	56345		3350	52995	32193
2016	10606879	106354	84871	265	21218	5299506	56345		3350	52995	31777
2017	10821058	108481	86588	271	21642	5299506	56345		3350	52995	31353
2018	11037477	110651	88300	276	22075	5299506	56345		3350	52995	30920
2019	11258227	112864	90066	282	22516	5299506	56345		3350	52995	30479
2020	11483392	115121	91867	287	22967	5299506	56345		3350	52995	30028
2021	11713059	117424	93704	293	23426	5299506	56345		3350	52995	29569
2022	11947321	119772	95579	299	23895	5299506	56345		3350	52995	29100
2023	12186267	122167	97490	305	24373	5299506	56345		3350	52995	28623
2024	12429992	124811	99440	311	24860	5299506	56345		3350	52995	28135
2025	12678592	127103	101429	317	25357	5299506	56345		3350	52995	27638
2026	12932164	129645	103457	323	25864	5299506	56345		3350	52995	27131
2027	13190607	132238	105526	330	26382	5299506	56345		3350	52995	26613
2028	22331693	223875	178654	559	44663	5299506	56345		3350	52995	8332
2029	22778327	228353	182227	570	45557	5299506	56345		3350	52995	7438
2030	23233894	232920	185871	581	46468	5299506	56345		3350	52995	6527

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Americia

Year	Private				America United States of				Surplus or Deficit ( ) General Fund		
	Property Value	Tax	Schools	Special Districts	County General Fund	Property Value	Tax	Schools		Special Districts	County General Fund
1998	26060038	25189	20048	128	5012	3519559	21095	16790	107	4198	(815)
2000	2656158	25692	20449	131	5112	397325	23864	18594	122	4748	(364)
2001	2607282	26206	20953	134	5215	3890572	23343	18590	119	4845	(670)
2002	2669427	26720	21275	136	5319	3803816	22823	18165	116	4541	(778)
2003	2712616	27265	21701	138	5425	3717088	22302	17751	114	4438	(887)
2004	2769688	27810	22135	142	5534	3630311	21782	17337	111	4334	(1200)
2005	2822206	28387	22578	146	5644	4230576	25383	20203	129	5051	(694)
2006	2879619	28934	23029	147	5757	4143822	24863	19789	127	4947	(810)
2007	2936222	29513	23490	150	5872	4657698	24342	18375	124	4844	(1029)
2008	3883462	38782	30868	198	7717	3970315	23822	18950	121	4740	(2977)
2009	3893631	38658	31465	202	7871	3484887	23309	18552	119	4638	(3333)
2010	4014843	40348	32115	206	8029	4669417	27963	22256	142	5564	(2465)
2011	4094630	41156	32757	210	8189	4574988	27460	21848	140	5462	(2727)
2012	4176523	41979	33412	214	8353	4489561	26937	21440	137	5360	(2993)
2013	4280053	42819	34080	218	8520	4477570	26565	21144	135	5266	(3234)
2014	4345254	43675	34782	223	8691	4365638	26194	20848	133	5212	(3478)
2015	4432160	44549	35457	227	8864	5406621	32441	26821	165	6455	(2408)
2016	4520803	45440	36186	232	9042	5373646	32242	26662	164	6416	(2676)
2017	4611219	46346	36980	236	9222	5340471	32043	26504	163	6376	(2847)
2018	4703443	47276	37628	241	9407	5340471	32043	26504	163	6376	(3031)
2019	4797512	48221	38380	246	9595	5340471	32043	26504	163	6376	(3218)
2020	4893462	49185	39148	251	9787	6692571	40155	31951	205	7990	(1797)
2021	4991332	50169	39921	256	9983	6692571	40155	31951	205	7990	(1892)
2022	5091168	51172	40729	261	10182	6692571	40155	31951	205	7990	(2192)
2023	5192981	52196	41544	266	10388	6692571	40155	31951	205	7990	(2396)
2024	5296841	53240	42375	271	10594	8386995	50322	40052	256	7990	(2604)
2025	5402778	54304	43222	277	10806	8386995	50322	40052	256	7990	(792)
2026	5510833	55391	44087	282	11022	8386995	50322	40052	256	7990	(1065)
2027	5621050	56498	44968	288	11242	8386995	50322	40052	256	7990	(1228)
2028	5733629	57650	45860	294	11467	8386995	50322	40052	256	7990	(1406)
2029	5848617	58763	46763	299	11697	8386995	50322	40052	256	7990	(1600)
2030	5966079	59815	47686	304	11931	10510412	63062	50193	321	12548	(7253)
2031	10988764	101505	80790	517	20168	10510412	63062	50193	321	12548	(7649)

Assumptions

Assumptions

Land Value Increase real	1.00%	
Predicted Inflation Rate	3.00%	
Nominal Increase Land	4.03%	
Land Value Increase tax purposes		
Pre	1988	2.00%
	1989	1.80%
Prop 13 property increase	2.00%	used ?
Depreciation Federal Improvements		
Years	20	
Federal lands reappraised 5 year cycle		
Last reappraisal	1995	
	95	
Years to Revalue Federal properties	5	
Percent escalation	4.03%	
Federal In Lieu percent	0.75%	
Federal Payment of in lieu percent	80.00%	
Percent tax	1.000%	not used
Percent discount	8.000%	
Special District	0.040%	not used
Years to Revalue private properties	20	has to be >2
Percent escalation	4.03%	
Past years since revalue	50.00%	10.00
Start Year	1988	
	98	
Real Interest Rate	3.80%	
Predicted Inflation Rate	3.00%	
Nominal Interest Rate	6.81%	
Property Tax Rate	1.00%	
Capitalization Rate	7.98%	

	U S			
	Land Value Per acre	CPI		
1984	60	26.9		
1985	544	152.4		
41	10.73333333	5.665427509	Land/CPI	Real Increase Land
0.024	1.055594923	1.04320949	1.02	1.571%

Present Value	Taxes	Total	General Fund
	Private	1,314,882	262,976
	Calif	704,314	
	Private	563,777	
	America	397,161	

America

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Year	Private				America, United States of				Surplus or Deficit ( )			
	Property Value	Tax	Schools	Special Districts	County General Fund	Property Value	Tax	Schools	Special Districts	County General Fund	Surplus or Deficit ( )	
1999	25060030	25189	20046	128	5012	3501116	21007	16720	107	4180	(632)	
2000	2556156	25692	20449	131	6112	3684072	23304	16549	119	4637	(475)	
2001	2607262	26206	20858	134	6216	3797318	22784	18134	116	4534	(681)	
2002	2659427	26739	21275	136	6319	3710565	22263	17720	113	4430	(689)	
2003	2712816	27265	21701	139	6423	3623811	21743	17306	111	4326	(1099)	
2004	2766888	27810	22195	142	6534	3537058	21222	16891	108	4223	(1311)	
2005	2827205	28367	22678	145	6644	4027602	24136	19710	123	4803	(842)	
2006	2876646	28934	23029	147	6757	3933848	23615	18796	120	4699	(1058)	
2007	2938222	29513	23490	150	6872	3849095	23095	18382	118	4595	(1277)	
2008	3047318	30660	24179	187	7065	3762341	22574	17967	115	4482	(2803)	
2009	3720262	37363	29762	191	7441	3678813	22061	17559	112	4360	(3051)	
2010	3794668	38141	30357	194	7589	4289777	26733	20481	131	5120	(2469)	
2011	3870561	38904	30964	198	7741	4203349	26220	20073	129	5018	(2723)	
2012	3947972	39682	31584	202	7898	4117921	24708	19665	126	4916	(2880)	
2013	4026932	40476	32215	206	8054	4059631	24336	19369	124	4842	(3212)	
2014	4107470	41286	32860	210	8215	3993697	23964	19074	122	4768	(3447)	
2015	4186820	42111	33517	215	8379	4805834	28836	22560	147	5736	(2842)	
2016	4279412	42953	34187	219	8547	4772656	28636	22792	145	5698	(3849)	
2017	4398880	43612	34871	223	8718	4739464	28437	22634	145	5658	(3059)	
2018	4446058	44688	35568	228	8892	4739464	28437	22634	145	5658	(3234)	
2019	4534979	45582	36260	232	9070	4739464	28437	22634	145	5658	(3412)	
2020	4626679	46494	37005	237	9251	5774629	34846	27577	177	6894	(2367)	
2021	4718192	47424	37746	242	9438	5774629	34846	27577	177	6894	(2542)	
2022	4812666	48372	38690	248	9635	5774629	34846	27577	177	6894	(2731)	
2023	4908807	49338	39270	251	9816	5774629	34846	27577	177	6894	(2923)	
2024	5006983	50326	40056	256	10014	5774629	34846	27577	177	6894	(3120)	
2025	5107123	51333	40857	262	10214	7035858	42215	33600	216	8400	(1814)	
2026	5209265	52359	41674	267	10419	7035858	42215	33600	216	8400	(2019)	
2027	5313451	53407	42508	272	10627	7035858	42215	33600	215	8400	(2227)	
2028	5419651	54491	43304	412	10876	7035858	42215	33600	215	8400	(2442)	
2029	5487110	55407	44059	420	11087	7035858	42215	33600	215	8400	(2676)	
2030	5562684	56055	44801	428	11307	8572551	51435	40639	262	10235	(7997)	
2031	5629938	56736	45540	437	11560	8572551	51435	40639	262	10235	(8625)	

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Assumptions

Assumptions

Land Value Increase real	0.00%		
Predicted Inflation Rate	3.00%		
Nominal Increase Land	3.00%		
Pre	-1998		
	1999		
Prop 13 property increase	2.00%		
Depreciation Federal Improvements	20		
Years			
Federal lands reappraised 5 year cycle	1995		
Last reappraisal	95		
Years to Revalue Federal provides	5		
Percent escalation	3.00%		
Federal in lieu percent	0.75%		
Federal Payment of lieu percent	80.00%		
Percent tax	1.00%	not used	
Special District	0.940%	not used	
Years to Revalue private properties	20	has to be > 2	
Percent escalation	3.00%		10.00
Percent years since revalue	50.00%		
Start Year	1998		
Real Interest Rate	3.80%		
Predicted Inflation Rate	3.00%		
Nominal Interest Rate	6.91%		
Property Tax Rate	1.00%		
Capitalization Rate	7.88%		
U S			
Land Value Per acre			
1954	60		
1995	644		
41	10.73333333		
0.024	1.059294923		
Present Value	Taxes		
Private	Private		
Call	America		
479	476.524		
2510	315.626		
1970	704.314		
1997	1,114.530		
27	704.314		
5240083507	222.906		
1.053266561	General Fund		
1.053452655	Land/CPI		
4.079487178	Real Increase Land		
1.01	0.832%		

## Private

	Property Value	Tax	Schools	Special Districts	County General Fund
1999	5880889	58956	47047	147	11762
2000	5998486	60135	47968	150	11997
2001	6118456	61338	48948	153	12237
2002	6240825	62564	49927	156	12482
2003	6365642	63816	50925	159	12731
2004	6492955	65092	51944	162	12986
2005	6622614	66394	52983	166	13246
2006	6755270	67722	54042	169	13511
2007	6890375	69076	55123	172	13781
2008	7748428	77678	61987	194	15487
2009	7903396	79232	63227	198	15807
2010	8061464	80816	64492	202	16123
2011	8222694	82433	65782	206	16445
2012	8387147	84081	67097	210	16774
2013	8554890	85763	68439	214	17110
2014	8725988	87478	69808	218	17452
2015	8900508	89228	71204	223	17801
2016	9078518	91012	72628	227	18157
2017	9260088	92832	74081	232	18520
2018	9445290	94688	75562	236	18891
2019	9634196	96583	77074	241	19268
2020	9826880	98515	78615	246	19654
2021	10023418	100485	80187	251	20047
2022	10223686	102495	81791	256	20448
2023	10428364	104544	83427	261	20857
2024	10636931	106635	85095	266	21274
2025	10849669	108788	86797	271	21699
2026	11066663	110943	88533	277	22133
2027	11287996	113182	90304	282	22578
2028	13694522	140295	111956	350	27989
2029	14274413	143101	114195	357	28549
2030	14569901	145963	116479	364	29120

## State of California

	Property Value	Tax	Schools	Special Districts	County General Fund	Surplus or Deficit General Fund
	5299506	56345		3350	52995	41233
	5299506	56345		3350	52995	40998
	5299506	56345		3350	52995	40758
	5299506	56345		3350	52995	40513
	5299506	56345		3350	52995	40264
	5299506	56345		3350	52995	40009
	5299506	56345		3350	52995	39749
	5299506	56345		3350	52995	39485
	5299506	56345		3350	52995	39214
	5299506	56345		3350	52995	37498
	5299506	56345		3350	52995	37188
	5299506	56345		3350	52995	36872
	5299506	56345		3350	52995	36550
	5299506	56345		3350	52995	36221
	5299506	56345		3350	52995	35885
	5299506	56345		3350	52995	35543
	5299506	56345		3350	52995	35194
	5299506	56345		3350	52995	34838
	5299506	56345		3350	52995	34475
	5299506	56345		3350	52995	34104
	5299506	56345		3350	52995	33727
	5299506	56345		3350	52995	33341
	5299506	56345		3350	52995	32948
	5299506	56345		3350	52995	32547
	5299506	56345		3350	52995	32138
	5299506	56345		3350	52995	31721
	5299506	56345		3350	52995	31296
	5299506	56345		3350	52995	30862
	5299506	56345		3350	52995	30419
	5299506	56345		3350	52995	25006
	5299506	56345		3350	52995	24446
	5299506	56345		3350	52995	23675

America United States of

Private

Year	Property Value	Tax	Schools	Special Districts	County General Fund	Property Value	Tax	Schools	Special Districts	County General Fund	Surplus or Deficit ( )
1999	2566038	25189	20048	128	5012	3475584	20854	18598	106	4148	(863)
2000	2550158	25692	20449	131	5112	3727298	22364	17800	114	4450	(662)
2001	2607282	26068	20858	134	5215	3640544	21843	17386	111	4346	(866)
2002	2659427	26730	21273	138	5319	3563781	21323	16874	109	4243	(1076)
2003	2712818	27265	21701	139	5425	3467037	20802	16577	106	4139	(1286)
2004	2769868	27840	22135	142	5534	3380284	20282	16143	103	4036	(1498)
2005	2822205	28367	22578	145	5644	3685807	22115	17692	113	4401	(1246)
2006	2878540	28934	23029	147	5757	3590153	21595	17188	110	4297	(1469)
2007	2936222	29513	23490	150	5872	3512400	21074	16774	107	4193	(1679)
2008	3301888	33188	26415	169	6504	3423646	20554	16339	105	4090	(2514)
2009	3367905	33852	26943	172	6738	3340216	20041	15951	102	3988	(2148)
2010	3453263	34529	27482	178	6871	3709662	22358	17716	113	4429	(2422)
2011	3503968	35219	28032	179	7008	3624234	21745	17308	111	4327	(2663)
2012	3574048	35924	28592	183	7148	3538806	21233	16900	108	4225	(2922)
2013	3645529	36642	29164	187	7291	3476916	20881	16604	106	4151	(3140)
2014	3718439	37375	29746	190	7437	3414861	20489	16308	104	4077	(3380)
2016	3792808	38172	30342	194	7588	3904463	23427	19046	119	4661	(2824)
2018	3869664	38885	30949	198	7737	3871276	23228	18487	118	4622	(3115)
2017	3846037	38662	31668	202	7892	3838104	23029	18229	117	4582	(3310)
2018	4024968	40456	32200	206	8050	3838104	23029	18229	117	4582	(3469)
2019	4105457	41266	32644	210	8211	3838104	23029	18229	117	4582	(3629)
2020	4187667	42090	33501	214	8375	4449414	26886	21248	138	5312	(3053)
2021	4271318	42932	34171	219	8543	4449414	26898	21248	136	5312	(3231)
2022	4356744	43791	34654	223	8713	4449414	26696	21248	136	5312	(3401)
2023	4443879	44656	35551	228	8888	4449414	26696	21248	136	5312	(3576)
2024	4532757	45590	36282	232	9068	4449414	26696	21248	136	5312	(3753)
2025	4623412	46471	36967	237	9247	5158091	30949	24633	158	6158	(3089)
2026	4715830	47400	37727	242	9432	5158091	30949	24633	158	6158	(3274)
2027	4810198	48348	38482	246	9620	5158091	30949	24633	158	6158	(3462)
2028	4906340	49411	47708	305	11927	5158091	30949	24633	158	6158	(3769)
2029	5004241	51140	48682	312	12168	5158091	30949	24633	158	6158	(4007)
2030	5204467	52362	49636	318	12469	5979641	35878	28556	183	7139	(5276)
2031	5328557	53640	50628	324	12857	5979641	35878	28556	183	7139	(5518)

*CSU, Chico Research Foundation  
California State University, Chico  
Chico, California 95929-0870  
(530) 898-4044; FAX: (530) 898-6804*

April 14, 1999

Glenn County Board of Supervisors  
P.O. Box 391  
Willows, CA 95988

Kristin Cooper-Carter  
Environmental Resource Program  
Office of Sponsored Programs  
California State University, Chico  
Chico, CA 95929-0870

Dear Supervisors Bungarz, Freeman, Hansen, Harris and Mudd,

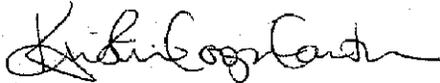
A proposal titled, "Local Economic Impacts of Public Land Acquisitions in the Sacramento River Conservation Area: A Case Study of Glenn County" will be submitted on April 16, 1999 for consideration by the CALFED Bay-Delta Program's Ecosystem Restoration Program and Strategic Plan in response to the 1999 Proposal Solicitation Package.

This proposal is for a comprehensive study of the economic impacts on Glenn County that would result from completion of the Sacramento River Conservation Area (SCRA) meander belt. The proposed study will focus on costs and will include the changes in property tax, special district revenues, agricultural output and employment that would result from further land acquisitions and habitat restoration. The study will also assess the local and regional economic benefits of the creation of the SRCA including recreational benefits, the value of enhanced wildlife populations, increase local spending by anglers and other visitors, and the water quality benefits of creating a buffer zone to absorb the runoff from agricultural operations.

An Executive Summary of this proposal will be forthcoming by the end of the month.

If you have any questions about this proposal, please feel free to call my office at (530) 898-5026.

Sincerely,



Kristin Cooper-Carter, Coordinator  
Environmental Resource Center

KCC/k

*CSU, Chico Research Foundation*  
California State University, Chico  
Chico, California 95929-0870  
(530) 898-4044; FAX: (530) 898-6804

April 14, 1999

Glenn County Planning Department  
John Benoit, Director  
125 South Murdock Avenue  
Willows, CA 95988

Kristin Cooper-Carter, Director  
Environmental Resource Program  
Office of Sponsored Programs  
California State University, Chico  
Chico, CA 95929-0870

Dear Mr. Benoit,

A proposal titled, "Local Economic Impacts of Public Land Acquisitions in the Sacramento River Conservation Area: A Case Study of Glenn County" will be submitted on April 16, 1999 for consideration by the CALFED Bay-Delta Program's Ecosystem Restoration Program and Strategic Plan in response to the 1999 Proposal Solicitation Package.

This proposal is for a comprehensive study of the economic impacts on Glenn County that would result from completion of the Sacramento River Conservation Area (SCRA) meander belt. The proposed study will focus on costs and will include the changes in property tax, special district revenues, agricultural output and employment that would result from further land acquisitions and habitat restoration. The study will also assess the local and regional economic benefits of the creation of the SRCA including recreational benefits, the value of enhanced wildlife populations, increase local spending by anglers and other visitors, and the water quality benefits of creating a buffer zone to absorb the runoff from agricultural operations.

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If you have any questions about this proposal, please feel free to call my office at (530) 898-5026.

Sincerely,



Kristin Cooper-Carter, Coordinator  
Environmental Resource Center

KCC/lk



DIVERSIFIED FARMING  
"Where Water is King"

## COUNTY OF GLENN

ASSESSOR'S OFFICE  
COURT HOUSE COMPLEX  
516 West Sycamore Street, 2<sup>nd</sup> Floor  
Willows, California 95988  
Willows Telephone (530) 934-6402  
Orland Telephone (530) 865-1184  
FAX: (530) 934-6571



VINCE T. MINTO, C.R.A.  
County Assessor

April 7, 1999

Ms Kristin M. Cooper-Carter  
Environmental Resource Program  
Research Foundation  
CSU, Chico, Kendall Room 111  
Chico, CA 95929-0870

Dear Kristin:

Please add my support to the request for the Research Foundation at California State University, Chico to do a study measuring the economic impacts of habitat restoration along the Sacramento River in Glenn County.

This information once compiled will be essential in the solution to the long on-going debate over third party impacts. It will provide some facts in an area long dominated by theory and assumptions. Such a study will have statewide importance in a variety of areas.

The Glenn County Assessors Office stands ready to assist in any way to help promote and then complete this economic study.

Sincerely,

Vince T. Minto  
Glenn County  
Assessor/Clerk-Recorder

VTM/tm



## GLENN COUNTY BOARD OF SUPERVISORS

Glenn County Board of Equalization  
Air Pollution Control District

April 1, 1999

Ms. Kristin M. Cooper-Carter  
Environmental Resource Program  
Research Foundation  
Chico State University, Chico, Kendall Room 111  
Chico, CA 95929-0870

Dear Kristin:

The Glenn County Board of Supervisors supports the request of the Research Foundation at California State University, Chico, to do a study measuring the economic impacts of the creation of the Sacramento River Conservation Area (SRCA).

For many years, Glenn County has been concerned about the effects of the impacts of past and future land acquisitions and habitat restoration on County services and the impacts in agricultural output and employment.

The study, as proposed, would allow Glenn County and other effected counties to measure the impact on these projects and determine if and how mitigation might be instituted.

As in the past studies, Glenn County stands ready to assist in this project.

Very Truly Yours,

GLENN COUNTY BOARD OF SUPERVISORS

D. G. Bungarz, Chairman

cc: Burt Bundy, Coordinator  
Sacramento River Conservation Area

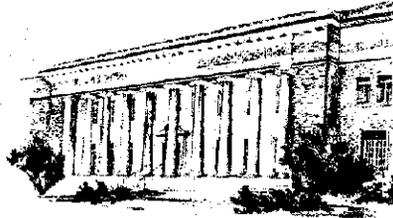
Board of Supervisors, Courthouse  
(530) 934-6400

526 West Sycamore Street  
Fax (530) 934-6419

P. O. Box 391 Willows, CA 95988  
gcboard@glenncounty.net

Board of Supervisors  
COUNTY OF TEHAMA

District 1 - Barbara McIver  
District 2 - George Russell  
District 3 - Charles Willard  
District 4 - Ross Turner  
District 5 - Bill Borrer



*Tehama County Courthouse*

Richard Robinson  
Chief Administrator

March 30, 1999

Ms. Kristin M. Cooper-Carter  
Environmental Resource Program  
Research Foundation  
CSU, Chico, Kendall Room 111  
Chico, CA 95929-0870

Re: Supporting Chico State University Research Foundation CALFED Application

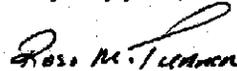
Dear Ms. Cooper-Carter:

The Tehama County Board of Supervisors supports the request of the Research Foundation at California State University, Chico to do a study measuring the economic impacts of the creation of the Sacramento River Conservation Area (SRCA).

Counties along the Sacramento River have supported the work to preserve and increase riparian habitat but have been concerned about the effects of the impacts of past and future land acquisitions and habitat restoration on county services and the impacts in agricultural output and employment.

The study as proposed would allow affected counties to measure the impact on these projects and determine if and how mitigation might be instituted.

Very truly yours,



Ross M. Turner  
Chairman

C: Denny Bungarz, Chair  
SB 1086 Advisory Council

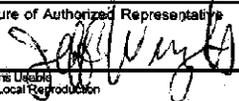
*Meetings 10:00 A.M. Tuesday of Each Week*

P.O. Box 250 • 633 Washington St., Red Bluff, CA 96080 • (530) 527-4655 • FAX (530) 529-0980

I - 0 1 6 3 1 0

I-016310

# APPLICATION FOR FEDERAL ASSISTANCE

		2. DATE SUBMITTED 4-16-99	Applicant Identifier
1. TYPE OF SUBMISSION <i>Application</i> <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Non-Construction	<i>Preapplication</i> <input type="checkbox"/> Construction <input type="checkbox"/> Non-Construction	3. DATE RECEIVED BY STATE	State Applicant Identifier
		4. DATE RECEIVED BY FEDERAL AGENCY	Federal Identifier
5. APPLICANT INFORMATION			
Legal Name: The CSU, Chico Research Foundation		Organizational Unit:	
Address (give city, county, state, and zip code): Kendall Hall, Room 111 CSU, Chico Chico, CA 95929-0870		Name and telephone number of person to be contacted on matters involving this application (give area code) Technical: David Gallo: (630) 898-5232 Budgetary: Kristin Cooper-Carter: (530) 898-5026 Contractual: Virginia Sturm: (530) 898-4044	
6. EMPLOYER IDENTIFICATION NUMBER (EIN): 6 8 - 0 3 8 6 5 1 8		7. TYPE OF APPLICANT: (enter appropriate letter in box) <input checked="" type="checkbox"/> I A. State B. County C. Municipal D. Township E. Interstate F. Intermunicipal G. Special District H. Independent School Dist. I. State Controlled Institution of Higher Learning J. Private University K. Indian Tribe L. Individual M. Profit Organization N. Other (Specify) _____	
8. TYPE OF APPLICATION: <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation <input type="checkbox"/> Revision If Revision, enter appropriate letter(s) in box(es): <input type="checkbox"/> <input type="checkbox"/> A. Increase Award B. Decrease Award C. Increase Duration D. Decrease Duration Other (specify): _____		9. NAME OF FEDERAL AGENCY: CALFED	
10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER: <input type="text"/> - <input type="text"/> TITLE: Local Economic Impacts of Public Land Acquisition		11. DESCRIPTIVE TITLE OF APPLICANT'S PROJECT: Local Economic Impacts of Public Land Acquisitions in the Sacramento River Conservation Area: A Case Study of Glenn County	
12. AREAS AFFECTED BY PROJECT (cities, counties, states, etc.): Glenn County			
13. PROPOSED PROJECT: Start Date: October 1, 1999 Ending Date: March 30, 2001		14. CONGRESSIONAL DISTRICTS OF: a. Applicant: 2 b. Project: 3	
15. ESTIMATED FUNDING:		16. IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?	
a. Federal	\$ 63,029.00	a. YES. THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE _____	
b. Applicant	\$ .00	b. NO. <input checked="" type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372 <input type="checkbox"/> OR PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW	
c. State	\$ .00		
d. Local	\$ .00		
e. Other	\$ .00		
f. Program Income	\$ .00		
g. TOTAL	\$ 63,029.00	17. IS THE APPLICANT DELINQUENT ON ANY FEDERAL DEBT? <input type="checkbox"/> Yes If "Yes," attach an explanation. <input checked="" type="checkbox"/> No	
18. TO THE BEST OF MY KNOWLEDGE AND BELIEF, ALL DATA IN THIS APPLICATION/PREAPPLICATION ARE TRUE AND CORRECT. THE DOCUMENT HAS BEEN DULY AUTHORIZED BY THE GOVERNING BODY OF THE APPLICANT AND THE APPLICANT WILL COMPLY WITH THE ATTACHED ASSURANCES IF THE ASSISTANCE IS AWARDED.			
a. Typed Name of Authorized Representative Jeff Wright		b. Title Director, Office of Sponsored Programs	c. Telephone number 530-898-5700
d. Signature of Authorized Representative 		e. Date Signed 4/13/99	

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Standard Form 424 (REV. 4-92)  
Prescribed by OMB Circular A-102

## BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 0348-0044

SECTION A - BUDGET SUMMARY						
Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Data Collection	N/A	\$	\$	\$ 20,423	\$	\$ 20,423
2. Model Refinement	N/A			\$ 18,043		\$ 18,043
3. Benefit Estimates	N/A			\$ 8,744		\$ 8,744
4. Project Management	N/A			\$ 15,819		\$ 15,819
<b>5. TOTALS</b>	N/A		\$ 0	\$ 63,029	\$ 0	\$ 63,029
SECTION B - BUDGET CATEGORIES						
6. OBJECT CLASS CATEGORIES	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)	
	(1) Data Collection	(2) Model Refinement	(3) Benefit Estimates	(4) Project Management		
a. Personnel	\$ 5,100	\$ 7,120	\$ 5,580	\$ 8,520	\$ 26,320	
b. Fringe Benefits	\$ 612	\$ 854	\$ 670	\$ 1,022	\$ 3,158	
c. Travel	\$ 159	\$ 79	\$ 0	\$ 79	\$ 317	
d. Equipment	\$ 2,410	\$ 0	\$ 0	\$ 0	\$ 2,410	
e. Supplies	\$ 0	\$ 0	\$ 150	\$ 563	\$ 713	
f. Contractual	\$ 10,000	\$ 7,000	\$ 0	\$ 2,057	\$ 19,057	
g. Construction	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
h. Other	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	
<b>i. Total Direct Charges (sum of 6a-6h)</b>	<b>\$ 18,281</b>	<b>\$ 15,053</b>	<b>\$ 6,400</b>	<b>\$ 12,241</b>	<b>\$ 51,975</b>	
<b>j. Indirect Charges</b>	<b>\$ 2,142</b>	<b>\$ 2,990</b>	<b>\$ 2,344</b>	<b>\$ 3,578</b>	<b>\$ 11,054</b>	
<b>k. TOTALS (sum of 6i and 6j)</b>	<b>\$ 20,423</b>	<b>\$ 18,043</b>	<b>\$ 8,744</b>	<b>\$ 15,819</b>	<b>\$ 63,029</b>	
<b>7. PROGRAM INCOME</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	

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Standard Form 424A (Rev. 4-92)  
Prescribed by OMB Circular A-102

1-016312

1-016312

1-016313

SECTION 1 - BUDGET INFORMATION					
(a) Grant Program	(b) Applicant	(c) State	(d) Other sources	(e) TOTALS	
8. Data Collection	\$0	\$0	\$0	\$0	
9. Model Refinement				\$0	
10. Benefit Estimates				\$0	
11. Project Management				\$0	
12. TOTALS (sum of lines 8 and 11)	\$0	\$0	\$0	\$0	
SECTION 2 - BUDGET INFORMATION					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$51,402	\$18,234	\$8,657	\$12,256	\$12,255
14. NonFederal	\$0	\$0	\$0	\$0	\$0
15. TOTAL (sum of lines 13 and 14)	\$51,402	\$18,234	\$8,657	\$12,256	\$12,255
SECTION 3 - BUDGET INFORMATION					
(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)				
	(b) First	(c) Second	(d) Third	(e) Fourth	
16. Data Collection	\$0				
17. Model Refinement	\$0				
18. Benefit Estimates	\$0				
19. Project Management	\$11,627				
20. TOTALS (sum of lines 16 - 19)	\$11,627	\$0	\$0	\$0	
SECTION 4 - BUDGET INFORMATION					
21. Direct Charges:	\$51,975	22. Indirect Charges	\$26,320	Base (Salaries & Wages)	
			\$11,054	Total Indirect (42% of S&W)	
23. Remarks					

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1-016313

**CSU, Chico Research Foundation**  
California State University, Chico  
Chico, California 95929-0870  
(530) 898-4044; FAX: (530) 898-6804

Indirect costs are those costs that cannot by their nature be specified on a project by project basis in the same way that line item direct costs can. Generally, indirect costs are those that support project activities, as compared to those that are directly related to specific project tasks. Universities establish an indirect cost rate with the Federal Government by following the appropriate provisions of OMB Circular A-21. This circular was officially modified and reissued on May 8, 1996, which, among other things, changed the term "indirect costs" to "Facilities and Administrative (F&A) Costs." The circular spells out two methods for determining such costs. We use the "Simplified Method" for institutions with less than \$10 million in awards annually from the Federal Government. Currently, we have two rates approved by our Health and Human Services Regional Office (Region IX) contacts: 42% of salaries and wages for on-campus projects and 18.5% of salaries and wages for off-campus projects. May Wong (415-556-1704) is our contact and can provide you with verification of our rate which her office approves after reviewing our financial statements.

Typically indirect costs are intended to generally cover costs such as facilities (including the space itself as well as utilities and janitorial services), general administration, insurance, "infrastructure" (for instance, availability of such resources as library holdings and other resources--e.g., access to electronic databases, communication links, computing backbone, and the like), grant and contract management services, cost of advancing funds for projects which pay in arrears and similar costs.

U.S. Department of the Interior

Certifications Regarding Debarment, Suspension and  
Other Responsibility Matters, Drug-Free Workplace  
Requirements and Lobbying

Persons signing this form should refer to the regulations referenced below for complete instructions:

Certification Regarding Debarment, Suspension, and Other Responsibility Matters - Primary Covered Transactions - The prospective primary participant further agrees by submitting this proposal that it will include the clause titled, "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions. See below for language to be used; use this form for certification and sign; or use Department of the Interior Form 1954 (DI-1954). (See Appendix A of Subpart D of 43 CFR Part 12.)

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions - (See Appendix B of Subpart D of 43 CFR Part 12.)

Certification Regarding Drug-Free Workplace Requirements - Alternate I. (Grantees Other Than Individuals) and Alternate II. (Grantees Who are Individuals) - (See Appendix C of Subpart D of 43 CFR Part 12)

Signature on this form provides for compliance with certification requirements under 43 CFR Parts 12 and 18. The certifications shall be treated as a material representation of fact upon which reliance will be placed when the Department of the Interior determines to award the covered transaction; grant, cooperative agreement or loan.

---

PART A: Certification Regarding Debarment, Suspension, and Other Responsibility Matters -  
Primary Covered Transactions

---

CHECK  IF THIS CERTIFICATION IS FOR A PRIMARY COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
  - (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - (b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- (2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

---

PART B: Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -  
Lower Tier Covered Transactions

---

CHECK  IF THIS CERTIFICATION IS FOR A LOWER TIER COVERED TRANSACTION AND IS APPLICABLE.

- (1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- (2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

06-7014  
March 1995  
(This form consolidates DI-1953, DI-1954,  
DI-1955, DI-1956 and DI-1963)

PART C: Certification Regarding Drug-Free Workplace Requirements

CHECK  IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS NOT AN INDIVIDUAL

Alternate I. (Grantees Other Than Individuals)

A. The grantee certifies that it will or continue to provide a drug-free workplace by:

- (a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the grantee's workplace and specifying the actions that will be taken against employees for violation of such prohibition;
- (b) Establishing an ongoing drug-free awareness program to inform employees about—
  - (1) The dangers of drug abuse in the workplace;
  - (2) The grantee's policy of maintaining a drug-free workplace;
  - (3) Any available drug counseling, rehabilitation, and employee assistance programs; and
  - (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace;
- (c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);
- (d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will —
  - (1) Abide by the terms of the statement; and
  - (2) Notify the employer in writing of his or her conviction for a violation of a criminal drug statute occurring in the workplace no later than five calendar days after such conviction;
- (e) Notifying the agency in writing, within ten calendar days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction. Employers of convicted employees must provide notice, including position title, to every grant officer on whose grant activity the convicted employee was working, unless the Federal agency has designated a central point for the receipt of such notices. Notice shall include the identification numbers(s) of each affected grant;
- (f) Taking one of the following actions, within 30 calendar days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted —
  - (1) Taking appropriate personnel action against such an employee, up to and including termination, consistent with the requirements of the Rehabilitation Act of 1973, as amended; or
  - (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;
- (g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a) (b), (c), (d), (e) and (f).

B. The grantee may insert in the space provided below the site(s) for the performance of work done in connection with the specific grant:

Place of Performance (Street address, city, county, state, zip code)

Glenn County

Check  if there are workplaces on file that are not identified here.

PART D: Certification Regarding Drug-Free Workplace Requirements

CHECK  IF THIS CERTIFICATION IS FOR AN APPLICANT WHO IS AN INDIVIDUAL

Alternate II. (Grantees Who Are Individuals)

- (a) The grantee certifies that, as a condition of the grant, he or she will not engage in the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance in conducting any activity with the grant;
- (b) If convicted of a criminal drug offense resulting from a violation occurring during the conduct of any grant activity, he or she will report the conviction, in writing, within 10 calendar days of the conviction, to the grant officer or other designee, unless the Federal agency designates a central point for the receipt of such notices. When notice is made to such a central point, it shall include the identification number(s) of each affected grant.

**PART E: Certification Regarding Lobbying**  
**Certification for Contracts, Grants, Loans, and Cooperative Agreements**

*CHECK IF CERTIFICATION IS FOR THE AWARD OF ANY OF THE FOLLOWING AND THE AMOUNT EXCEEDS \$100,000: A FEDERAL GRANT OR COOPERATIVE AGREEMENT; SUBCONTRACT, OR SUBGRANT UNDER THE GRANT OR COOPERATIVE AGREEMENT.*

*CHECK IF CERTIFICATION IS FOR THE AWARD OF A FEDERAL LOAN EXCEEDING THE AMOUNT OF \$150,000, OR A SUBGRANT OR SUBCONTRACT EXCEEDING \$100,000, UNDER THE LOAN.*

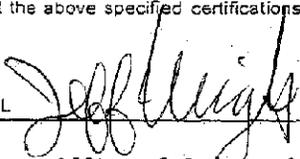
The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, and officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

As the authorized certifying official, I hereby certify that the above specified certifications are true.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL



TYPED NAME AND TITLE Jeff Wright, Director, Office of Sponsored Programs

DATE 4-12-99

## ASSURANCES - NON-CONSTRUCTION PROGRAMS

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET.  
SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

**NOTE:** Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1688), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 178(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470); EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1998 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.

SIGNATURE OF AUTHORIZED CERTIFYING OFFICIAL		TITLE	
Jeff Wright		Director, Office of Sponsored Programs	
APPLICANT ORGANIZATION		DATE SUBMITTED	
The CSU, Chico Research Foundation		4-16-99	

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