

*UNIVERSITY OF CALIFORNIA
AND
THE SAN JOAQUIN VALLEY*

*A CENTURY OF COMMITMENT
TO THE CENTRAL VALLEY THROUGH
RESEARCH, SERVICE, AND EDUCATION*

Prepared by:

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EXECUTIVE SUMMARY

The University of California (UC) has provided research and services to the San Joaquin/Central Valley since 1888, when UC opened its first Valley research station at Tulare to study drainage and salinity problems. Presently, the University of California maintains over 25 offices in the San Joaquin Valley. Each county in the San Joaquin Valley operates a Cooperative Extension office with the assistance of the University of California. There are at least 480 University of California staff and faculty who are assigned or focus their research in the Valley. The University of California provides services to the residents of the San Joaquin Valley in the following major areas:

- UNIVERSITY EXTENSION
- AGRICULTURAL RESEARCH AND EXTENSION CENTERS
- UC COOPERATIVE EXTENSIONS
- HEALTH SERVICES
- VETERINARY SERVICES
- JOINT DOCTORAL DEGREE PROGRAMS
- OUTREACH/RECRUITMENT SERVICES

The University of California serves thousands of Valley residents of all walks of life during any given year. The University provides services to children from 8 through 18 through the 4-H Clubs, to families through the Home Economics programs, to agribusiness through the Field Research Stations and Cooperative Extension Farm Advisors, to those in need of health or veterinary assistance in University Hospitals and University Veterinary Centers, to the law profession through Continuing Education of the Bar, and to students through outreach/recruitment services and joint doctoral education programs. The University is involved in so many aspects of life and provides so many services in the San Joaquin Valley that it is quite probable that not all the programs/services are documented in this report. This report will focus on the following San Joaquin Valley and adjacent mountain counties: Calaveras, Fresno, Kern, Kings, Madera, Mariposa, Merced, San Joaquin, Stanislaus, Tulare, and Tuolumne.

The University of California is involved in extensive agricultural research in the San Joaquin Valley and has approximately 38 UC faculty members doing research in the six field research stations located in the area. The University, in cooperation with the counties, also employs over 80 technical and clerical staff to work in the field research stations. The majority of faculty working in the field research stations are affiliated with the Davis campus; however, there are also faculty from Berkeley, Riverside, and other campuses that have ongoing research projects at various facilities. The University Cooperative Extension offices in each county are the link between University agricultural research and the public. Farm Advisors

provide information on animal science, pest management, horticulture, range and vegetable crops, soil and water conservation, agriculture personnel management, and product management. Youth Advisors provide applied research and education support for thousands of adult volunteers and students in the 4-H program. Home Advisors conduct programs in nutrition and home management for consumers, health professionals, and disadvantaged members of the community.

Through University Extension, the University provides continuing education to the residents of the State of California. The Davis and Santa Barbara campuses provide Extension services to the San Joaquin Valley region. University Extension programs include the following: courses and Independent Study, Extension Media Center, Institute of Transportation Studies, and Continuing Education of the Bar (CEB). These programs served over 6,000 Valley residents during 1990, and provided the Valley with educational resources that are not typically available in this region. Continuing Education of the Bar provides the Valley's legal profession with courses and services in a variety of legal areas. CEB served over 2,500 customers in 1990. University Extension offers courses both through the regular University Extension and through Independent Study. Residents from a wide range of backgrounds enroll in these courses, from high school students to college graduates. UC graduates can utilize the University Extension courses not only to continue their education but also to keep close contact and affiliation with the UC system. The University also works closely with city and county agencies through the Media Center and the Institute of Transportation Studies (ITS). The ITS offers cities and counties excellent and valuable services that not only improve the transportation and road systems of the area, but most importantly also can save lives.

The University of California San Francisco (UCSF) oversees the operation of the UCSF Medical Center in Fresno. The Medical Center provides much needed medical services to the Valley and also allows UCSF medical students and post-doctoral residents to study and learn in a predominantly rural setting. UCSF has approximately 125 faculty affiliated with the regional hospitals and also provides the opportunity for over 375 volunteer physicians to work at the medical center. Approximately 120 medical students are assigned to the Fresno Center each year. This Center and its affiliated hospitals not only provide UCSF physicians and students a place to work and learn in a setting much different from the urban setting of San Francisco, but also provide medical services to over 350,000 patients per year.

The Davis campus operates two Veterinary Medicine Centers in Tulare, the Veterinary Medicine Teaching and Research Center and the California Veterinary Diagnostic Laboratory. There are six full-time faculty and 24 staff personnel working in Tulare. The primary role of the Centers is clinical teaching and research in

food producing animals. The faculty at the Center work closely with local veterinary practitioners and livestock enterprises through field-oriented clinical and investigative activities on current issues and concerns of the Central Valley.

The University of California is committed to providing doctoral educational opportunities for Valley residents. The first joint program that encourages students to pursue a doctorate degree in education was initiated in the fall of 1991 between UC Davis and CSU Fresno. The program in Educational Leadership specializes in preparing students in organizational theory, assessment and evaluation, curriculum, instruction, and supervision within a socio-cultural context. UC Santa Barbara and CSU Bakersfield are also developing a joint doctoral program in Educational Policy, Organization, and Leadership.

The University of California provides intensive outreach and recruitment efforts in the Central Valley. The Office of the President's Office of Educational Relations, UCSC Early Outreach, UCD Transfer Center, and the UC Lawrence Hall of Science's Mathematics, Engineering and Science Achievement (MESA) programs work closely with schools and students to prepare Valley students to pursue higher education. UCSC's Early Outreach and the MESA program work with over 3,000 students; their success in enrolling underrepresented students in higher education is exemplary. The Office of Educational Relations and the Transfer Center not only provide direct services to students, but also work very closely with school administrators and teachers in improving student eligibility and curriculum. These units serve hundreds of Valley educators and thousands of students each year.

The number of UC offices and UC personnel indicate the commitment of the University of California to the Valley and its residents. Because the issues and concerns of the Valley are often unique, the University has refined and enhanced many of its programs and services to meet the needs of the Valley communities. For over a century, the University has reached out in a multitude of ways to contribute to improving the quality of life in the Valley.

INTRODUCTION

This report was prepared during the summer of 1991 for the Office of the Senior Vice President--Academic Affairs. The information documented in the following pages was written with the assistance of many individuals both in the Valley and throughout the State. The numerous programs and research activities in the San Joaquin Valley documented here represent the major projects under way in the Valley during the time period that this research was completed. For each UC office described, every effort was made to contact the project director/supervisor directly at each site. The information was gathered through numerous and exhaustive telephone conversations and through written reports and documents. Some of the information presented here was reproduced from existing reports, documents, or brochures. This report tries to bring together all of the information available regarding the University of California and the San Joaquin Valley in one comprehensive document. All data presented in this report were the most current data available at the time the report was completed. There were a few units that were not able to provide written documentation; they are represented as comprehensively as possible within those limitations. The information presented is not all-inclusive as there most likely are a variety of small research projects and service programs that were not uncovered or documented in this report.

The report is separated by the major divisions listed in the table of contents, and also by counties and service areas. The description of each unit includes the address, telephone number, and name of the unit director or other contact person; and a brief description of the unit (the description of each research unit includes a list of the faculty affiliated with the unit and their research projects). The number of faculty and staff working in each unit is also documented, as is the number of students/clients served, when appropriate.

The University of California is involved in many facets of life in the Valley from education to health and, as documented in this report, serves thousands of Valley residents each year. Yet the commitment and service of the University of California are not always well represented or publicized. Many Valley residents who utilize UC services are unaware that these services are being provided or subsidized by the University. The purpose of this report is to contribute to the public's awareness of these UC programs.

UNIVERSITY OF CALIFORNIA REGIONAL OFFICE

University Relations
1177 East Shaw Avenue
Fresno, CA 93710

Contact person: Mark Aydelotte
209-225-5611

The UC Regional Office in Fresno is the focal University of California unit in the Valley. The office provides Valley residents with vital information not only about the University of California, but about pertinent educational matters in general. The office plays a much more important role than just being the Public Relations office of the University, in that it provides the local community with the link to University of California research and services. The office produces the UC Valley Calendar which promotes the University and provides a schedule of UC events for Valley residents. The Regional Office serves an essential role as the representative of the University of California in the San Joaquin Valley.

UNIVERSITY EXTENSION

University Extension, Davis
University of California
Davis, CA 95616-8727

Acting Dean of
University Extension:

Charles Lacy
916-757-8663

Established in 1960, and serving 34 counties which include the greater Central Valley, Davis Extension, like the campus itself, is a center for agricultural programs and for programs related to government and public policy issues. Courses are offered in agriculture, business and management, education, health and human services, natural science, toxic and hazardous substances, and land use planning. The Agricultural Unit integrates the strength of the Davis campus, and offers courses in biotechnology, food science and technology, pest management, viticulture, and enology.

First developed in 1981, Davis Extension's innovative and successful certificate program in the management of toxic waste and hazardous substances has earned national awards and is in the forefront of training people who deal with hazardous materials. Davis offers 22 other certificate programs in a variety of fields including graphic design, labor-management relations, and personal financial planning.

During the 1989-90 academic year, approximately 6,400 San Joaquin Valley residents enrolled in 535 UC Davis Extension courses. Davis Extension designed 459 customized programs/courses during this period to meet a specific need of Valley residents, with a total of 2,977 students enrolled in these courses. During this same period there were 76 regular open-enrollment courses offered in the San Joaquin Valley, with a total enrollment of 3,511 students. The focus of the Extension courses and programs offered in the San Joaquin Valley are in three major areas: Agriculture, Business Management, and Land Use.

Involvement during 1990-91 is listed below:

	<u># Courses</u>	<u># Enrollments</u>
Contract courses:	185	3,410
Non-contract courses	15	530
Totals:	200	3,940

Continuing Education of the Bar
University of California
2300 Shattuck Avenue
Berkeley, CA 94704

Contact person: William (Bill) Carroll
510-642-1794

University of California's Continuing Education of the Bar offers an educational program for the benefit of practicing lawyers. The program is administered by a Governing Committee through the University of California in cooperation with local bar associations, and the Joint Advisory Committee made up of the State Bar Committee on Continuing Education of the Bar and the Deans of accredited law schools.

Continuing Education of the Bar publications and oral programs are intended to provide current and accurate information about the subject matter covered, and are designed to help attorneys maintain their professional competence. Publications are distributed and oral programs are presented with the understanding that CEB does not render any legal, accounting, or other professional service.

Listed on the following pages are the courses offered in the San Joaquin Valley and adjacent counties from February 1990 through January 1991. This listing is a typical sample of the 30 to 40 courses offered in this region during any given year.

From January 1990 through December 1990, CEB served 2,577 clients who reside in the San Joaquin Valley and adjacent counties.

CONTINUING EDUCATION OF THE BAR
COURSES OFFERED IN THE CENTRAL REGION OF CALIFORNIA
(February 1990 - January 1991)

<u>COURSES</u>	<u>DATE OFFERED</u>	<u>CITY</u>
Recent Developments in Business Law	March	Fresno
Introduction to the Law of Independent Contractors	April	Fresno
Preparing the Case for Trial	March	Fresno
The Last 100 Days	April	Monterey
Preparing and Examining Experts	March	Fresno
Witnesses in Civil Litigation	April	Monterey
Sharpening Your Basic Trial Evidence	April	Monterey
Skills II: Interactive Instruction and Demonstration	May	Fresno
Preparing For, Taking, and Using Depositions	May June	Fresno Monterey
Insurance Coverage Problems in Motor Vehicle Cases	August	Monterey
Creating and Implementing a Successful Discovery Plan	September	Monterey
Basic Federal Practice	November	Yosemite
Recent Developments in Civil	January	Monterey
Litigation Practice	January	Yosemite
Recent Development in Tort Practice	January	Monterey
Recent Developments in Criminal Law Practice	February	Fresno Monterey

<u>COURSE</u>	<u>DATE OFFERED</u>	<u>CITY</u>
Effective Criminal Trial Tactics	February	Monterey
Drafting Wills and Related Estate Planning Documents	April	Fresno
Planning for Aging and Incapacity	November	Fresno
Recent Developments in Estate Planning and Administration	January	Fresno Yosemite
Representing Clients in Custody and Visitation Matters	February	Fresno
Ethics and Avoiding Malpractice in Family Law	February	Fresno
Dividing Property on Dissolution of Marriage	May	Fresno
Recent Developments in Family Law Practice	March	Yosemite
Recent Developments in Real Property Law Practice	March	Monterey
Secured Real Property Transactions	May	Monterey
Getting the Most Out of Interest Deduction	March	Fresno

Center for Media and Independent Learning
University Extension
University of California
2223 Fulton
Berkeley, CA 94720

Contact person: Mary Beth Almeda, Director
510-642-7343

The Center for Media and Independent Learning (CMIL) is a new statewide Extension department combining two long-standing Extension units, Independent Study and Extension Media Center. The merger enhances University Extension's outreach throughout California and the nation, bringing together resources for mediated instruction and opening up new possibilities for distance learning.

CMIL has provided distance education courses and media resources to California and the nation for more than 75 years. CMIL offers over 250 accredited high school, college, and professional development courses in the arts, business and management, computer science, education, engineering, languages, literature, social sciences, public health, real estate, and writing. In addition to traditional correspondence courses, CMIL offers courses by electronic mail and cable television. CMIL instructors are generally university faculty members, either on a UC campus or at another major American college or university.

CMIL is the statewide media distribution agency for the University of California. It serves as an academic "publisher" of some 400 video and film titles that are purchased by colleges and universities, public schools, libraries, medical facilities, individuals, and television broadcasters worldwide. Its programs have won more than 1,000 awards and academic honors. New titles come from faculty members at all of the UC campuses and from distinguished scholar-producers around the world. The CMIL rental library contains 3,500 films and video titles.

During 1990-91, CMIL served 190 distance education students in the San Joaquin Valley. In addition, it served 144 San Joaquin clients by providing educational media materials on 644 different occasions.

CMTL served the following customers:

<u>CUSTOMER</u>	<u># OF CUSTOMERS</u>	<u># TRANSACTIONS</u>
Colleges and Universities	16	83
Two-Year Colleges	24	65
Schools (K-12)	39	447
Public Libraries	5	7
Business and Industry	9	3
Medical	26	27
Religion	3	3
Government	5	22
General Public/Other	<u>17</u>	<u>7</u>
TOTAL	144	664

Institute of Transportation Studies
University of California
Richmond Field Station
1301 South 46th Street
Building 452
Richmond, CA 94804

Contact person: Anna Bennett
510-231-9590

The Institute of Transportation Studies (ITS) is a research unit with branches on the Berkeley, Davis, and Irvine campuses. One aspect of the Institute's activities is to provide continuing education programs in conjunction with University Extension. Educational programs range from the fundamentals of traffic engineering and drainage systems to the latest techniques in using microcomputers as engineering tools. Through contracts and grants, ITS also develops specialized training programs and technical assistance for various public agencies.

There are three ITS-sponsored projects in the San Joaquin/Central Valley Region that provide extensive service to the area.

1) Cooperative Training Assistance Program (C-TAP). Cities and counties in the California Department of Transportation jointly fund the C-TAP through which ITS Extension presents low-cost, practical training for engineers and other technical personnel who are working on developing and maintaining local streets and roads, highways, bridges, and other transportation-related facilities statewide. In 1990-91, eight classes were sponsored in the San Joaquin Valley, with a total of 135 attendees.

2) Safety through Maintenance and Construction Zones. The California Office of Traffic Safety provides funds to train persons responsible for handling traffic through construction and maintenance work sites, including city, county, state, and federal employees, as well as contractor and utility company personnel. The program provides a two-day course at convenient locations throughout the State. In 1989 and 1990, five classes were presented in the San Joaquin Valley, with a total of 161 attendees.

3) Enforcement and Engineering Analysis. The Enforcement and Engineering Analysis Team is a service provided free of charge to cities and counties in California by ITS Extension through a contract with the State Office of Traffic Safety. The Project helps cities and counties reduce traffic accidents in their jurisdictions and maximize the efficiency and cost effectiveness of traffic safety programs. The team evaluates the ongoing traffic law enforcement, accident investigations, and traffic engineering programs of the city and county and compares them with standards, warrants, benchmarks, accepted engineering practices, and successful programs used in other jurisdictions. They produce a written report of their findings,

including non-directive suggestions and recommendations for improving future programs, enhancing engineering and law enforcement coordination, and reducing civil liability potential. The project also provides for follow-up visits to review recommendation implementation and provide additional consulting services. In the last ten years, 42 team evaluations have been completed in the San Joaquin Valley.

The Institute is working on a new catalog covering the next 12 months. The latest edition of the catalog should be available in the spring of 1992.

AGRICULTURAL RESEARCH AND EXTENSION CENTERS

Agricultural Research and Extension Centers

Agriculture is California's largest industry. The University of California contributes to its productivity through the nine Research Extension Centers it maintains throughout the State. The charge of these field centers, administered by the Office of Facilities Planning and Management under the Division of Agriculture and Natural Resources (DANR), is to provide land, labor, and facilities to researchers in agriculture and to contribute to public education in matters relating to agriculture and agricultural research.

The Research and Extension Centers range the length of the state, from Imperial Valley on the Mexico-California border, to Tulare on the Oregon-California border. They are strategically situated in California's major climate zones: the north and central coast, the high mountain valleys and ranges of Sierra Nevada, the arid regions of southern California, and the prolific Sacramento and San Joaquin Valleys. Each Center serves a unique set of local or regional needs, and provides manpower, equipment, and facilities to fulfill all field and laboratory requirements for on-station basic or applied research.

Center research falls into two categories: basic research designed to probe the fundamental processes of organisms and their interactions with the physical world, and applied studies that translate research into practical innovations to solve a wide variety of specific agricultural problems. The extraordinary range of crops and growing conditions represented in California makes the state an ideal laboratory for the development of solutions to agricultural concerns around the world, and centers attract thousands of visiting researchers and farm representatives each year.

Any scientist within the UC Division of Agriculture and Natural Resources may conduct a research project at a Research and Extension Center, provided the project is recommended by a research review committee, funding is available, and the Center has space for the project. The hundreds of projects in progress at the nine centers range from long-term research to short-term experiments testing untried, creative approaches. In addition to University scientists, researchers from federal, state, and local agencies also use center facilities.

Cooperative Extension staff members play a major role in center activities. Through Extension, research results are made available to other investigators, farmers, consumers, environmental groups, governmental officials, and the public.

Communicating the results of center research can take the form of tours, seminars, lectures, bulletins, and public field days,

providing visitors with a first-hand look at scientific work in progress. Numerous technical articles by researchers and project leaders are published as a result of center work.

The centers serve as educational resources for students in agricultural sciences, providing "hands-on" learning opportunities through work-study programs and short courses. By providing dormitory space, the University encourages its students to conduct research at the centers.

Collectively, the centers have 12,000 acres available for use and physical plant space of 335,000 square feet. A large inventory of farm equipment is available for research projects, along with irrigation water, barns, pastures, range, feedlots, laboratories, and laboratory equipment.

The main Universitywide administration office for the nine Research and Extension Centers is located on the University of California Davis campus. Policies and procedures, fiscal, and personnel matters, as well as physical plant construction and maintenance for all centers, are managed from this office.

The University presently operates five agricultural Research and Extension Centers in the San Joaquin Valley: Lindcove in Tulare County, West Side in Fresno County, Kearney Agricultural Center in Parlier, Shafter/Cotton Research Center, and the UC Whittaker Forest Field Center. They provide researchers with land, trained personnel, facilities, and equipment to carry out their investigations.

UC Kearney Agricultural Center
9240 South Riverbend Avenue
Parlier, CA 93648

Contact person: Frederick Swanson
209-891-2500

Kearney is UC's largest off-campus agricultural research facility. Faculty and specialists from UC Davis, UC Berkeley, and UC Riverside are permanently assigned to pursue research full time. Other faculty members commute routinely to conduct studies on site. More than 100 research projects are under way at any one time. The Center is also the home base for the UC Mosquito Research Laboratory.

Situated in the geographic center of the fertile San Joaquin Valley, this research facility was formed in 1962 to serve the diverse agricultural industry of the Valley. It has since become internationally recognized for research that has resulted in new fruit, nut, and grape varieties, innovative irrigation practices, better pest and disease management techniques, and more efficient fertilization methods.

Research emphasis:	Grape, stone fruits, pest management, nuts, irrigation, plant disease
Size:	330 acres
Climate zone:	Interior valley
Terrain:	Flat alluvial plain from Sierra Nevada
Average rainfall:	11 inches
Seasonal temperatures:	
Annual mean:	62.4 F
Summer:	Maximum monthly mean - 80.6 F
Winter:	Minimum monthly mean - 45.5 F
Elevation:	337 feet

Kearney specializes in post-harvest biology, a major concern to the agricultural industry. The center works with growers, packers, and shippers of fresh market crops to improve handling, reduce market losses, and provide consumers with higher quality products.

The Kearney Agricultural Center is divided into 12 major departments:

- Agronomy and Range Science
- Biological Control
- Botany and Plant Sciences
- Entomology
- Environment Toxicology
- Land, Air, and Water
- Nematology
- Plant Pathology
- Pomology
- Vegetables and Field Crops
- Viticulture
- U.S.D.A.

Twenty-six academic staff from three campuses and the Division of Agriculture and Natural Resources were assigned to the Center as of January 1991.

UC Lindcove Research and Extension Center
22963 Carson Avenue
Exeter, CA 93221

Contact person: Louis Whitendale, Superintendent
209-592-2408

The area of Tulare County where the San Joaquin Valley meets the gently rising western slopes of the Sierra Nevada provides an ideal environment for citrus research. Since it was founded in 1959, the Lindcove Field Station has played a major role in providing California growers with higher yielding, longer living cultivars, with resistance to pests and diseases that once threatened the citrus industry.

Two of the most important activities at Lindcove are maintenance of the Citrus Clonal Protection Program foundation budwood block and distribution of disease-free planting stock. The station orchards are also used by scientists for studies on chemical, biological, and cultural control of pests, or integrated pest management. About a quarter of a million certified buds have been provided to growers. Other research at this station is devoted to vegetable and tree fruit crops, olives, peaches, and plums.

FTE: 7
Sq. Ft. Facilities: 25,657
No. of Projects: 33

Research Emphasis: Citrus, stone fruits, olives, pest management,
and frost control

Size: 175 acres

Climate zone: Interior valley modified by west slope of
Sierra Nevada

Terrain: Medium to flat slopes

Average rainfall: 12.00 inches

Seasonal Temperatures:

Annual Mean: 63.9 F
Summer: Maximum monthly mean - 82.3 F
Winter: Minimum monthly mean - 46.6 F

Elevation: 450 feet

UC West Side Field Center
17353 West Oakland Avenue
(P.O. Box 158)
Five Points, CA 93624

Contact person: Jimmie Ross
209-884-2411

As in the Valley itself, research at West Side encompasses a great variety of fruit, vegetable, cereal, and fiber crops. The station is especially noted for cotton research. Nut crops -- almonds, walnuts, pecans, and pistachios -- are well represented in research plots. West Side is also a center for regional cereal grain trials. Yield and performance tests of wheat and barley provide data on new breeding lines and new and established varieties for comparison with other regions.

Vegetable crop research ranges from garlic to melons, asparagus, peppers, and tomatoes. Major attention is directed at improved alfalfa germplasm and breeding methods. Irrigation techniques for sugarbeets, drip irrigation for tomatoes, cotton, fruit trees and other crops, and salinity control under high-frequency, low-volume irrigation are studied.

Research emphasis: Cotton, alfalfa, pest management, irrigation management, stone fruits, nuts, and vegetable crops; predator management.

Size: 320 acres

Climate zone: Interior valley

Terrain: Flat alluvial plain from the Coast Mountain Range

Average annual rainfall: 8 inches

Seasonal temperatures:

Annual mean: 62.2 F
Summer Maximum monthly mean - 80.5 F
Winter: Minimum monthly mean - 45.2 F

Elevation: 285 feet

UC Shafter Field Center
UC Cotton Research Unit
17053 Shafter Avenue
Shafter, CA 93263
805-746-6391

Contact person: Harold Myers
UCOP

DANR Director
916-752-3930

One hundred and twenty acre facility (80 acres on site, with an additional 40 acres off-site) in Shafter. Research focus includes minimum tillage and control, cotton genetics, plant growth regulators, host plant resistance, and plant technology. UC Davis researchers use the facility, in collaboration with USDA researchers.

OTHER FIELD RESEARCH CENTER

UC Whitaker Forest Research Center
P.O. Box 178
Badger, CA 93603

Station: 209-337-2404
UCB contact person: Donald Glasser
510-642-5059

The Whitaker Forest Research Station, five miles northeast of Badger and two miles south of the General's Highway near the General Grant Grove of the Sequoia National Park, was donated to the University in 1914 by Horace Whitaker. It includes more than 200 old Sequoia gigantea veterans and fine stands of young sequoia. It is the center for research in forestry and for related ecological studies conducted by other departments.

This Station is administered by the School of Forestry at the University of California Berkeley.

UC COOPERATIVE EXTENSION

Cooperative Extension

UC Cooperative Extension
9240 South Riverbend Avenue
Parlier, CA 93648

Regional Office

Regional Director Bill Hambleton
209-891-2500

Contact person: Mary-Louise (Mel) Peters
209-891-2500
Personnel Analyst

Cooperative Extension was established by Congress with the Smith-Lever Act of 1914. Cooperative Extension, a joint effort of the University of California, county government, and the United States Department of Agriculture, seeks to benefit all growers in areas such as selecting specialty crops, marketing, irrigation, weed control, and safe pesticides.

The information generated at UC campuses and at the Field Research Stations is made available to Valley agribusiness, as well as the general public. Cooperative Extension offices in each county in the San Joaquin Valley provide information and services to thousands of residents. Youth advisors provide applied research and education support for thousands of volunteers in the popular 4-H program. Home advisors conduct programs in nutrition and home management for consumers, health professionals, and disadvantaged members of the community.

There are over 12,000 Valley youth and over 4,000 adult volunteers presently participating in 4-H clubs. The 4-H program has grown from its emphasis on agriculture and animals to a comprehensive program that includes many of the traditional 4-H activities, as well as academic enrichment programs that assist students in acquiring leadership and problem-solving skills to enhance individual development and well-being.

Most extension offices in the San Joaquin Valley are administered by Extension's south central regional director, based at the Kearney Agricultural Center.

UC Cooperative Extension, Calaveras County
891 Mountain Ranch Road
Government Center
San Andreas, CA 95249
209-754-6477

Contact person: Kenneth Churches

Calaveras County is rural in nature and has a population of 35,000. Presently, the county is experiencing a tremendous influx of new residents primarily from urban areas. The office provides programming in Agriculture, Home Economics, 4-H Youth, and Natural Resource Management. Most of the programs are managed through the use of volunteer "extenders." The program currently utilizes more than 500 volunteers on an ongoing basis. The 4-H component serves approximately 23 percent of all county youth.

Faculty specialists from both UC Davis and UC Berkeley are affiliated with the office. The office has 1.35 FTE University paid staff, 3.0 FTE county paid staff, and .75 FTE paid from other sources.

FACULTY, STAFF, AND YOUTH PARTICIPANTS

UC Faculty	1.00
UC Staff	1.35
County Staff	3.00
Other Staff	0.75
4-H Youth	500
4-H Volunteers	500

UC Cooperative Extension, Fresno County
1720 South Maple Avenue
Fresno, CA 93702
209-488-3285

Contact person: Linda Manton
209-488-3285

Fresno County Cooperative Extension is the formal, off-campus, educational arm of the University of California. It is part of the Land Grant University system that has provided the citizens of Fresno County with information and educational programs since 1914. The major program thrust is: 1) agriculture and natural resources; 2) 4-H Youth programs; 3) home economics; and 4) community resources development.

Cooperative Extension Advisors include Farm Advisors, Home Economists, and 4-H Youth Advisors. Educational programs of Cooperative Extension are designed to adapt and deliver the results of research and new knowledge to people located in communities beyond the reach of the campuses of the University of California. Cooperative Extension also provides liaison within California communities and industry to help identify needs and bring to bear University resources on these needs through exploration and research. Cooperative Extension combines the resources of the University of California, USDA, and the County of Fresno.

The University of California provides academic staff support for pilot programs and publications in the areas of Agriculture, Home Economics, and 4-H Youth Development. The University also provides Cooperative Extension with access to its extensive library system, research stations, and regional and statewide specialists who further expand present sources of knowledge.

The United States Department of Agriculture provides informational publications, field research support, and special programs such as the Expanded Food and Nutrition Education Program (EFNEP).

The County of Fresno adds to this with the support of clerical and printing staff, laboratory analysis, office space, transportation, and supplies.

FACULTY, STAFF, AND YOUTH PARTICIPANTS
Fresno County Cooperative Extension

UC Faculty	15
UC Staff	4.5
County Staff	8.0
4-H Youth	3,399
4-H Volunteers	782

UC Cooperative Extension, Kern County
1031 South Mount Vernon
Bakersfield, CA 93307
805-861-2631

Contact person: J. Hodge Black
805-861-2696

The Kern County Cooperative Extension office has been part of the Land-Grant University system since 1914, and has provided the citizens of Kern County information and educational programs in agricultural and natural resources, family and consumer science, community resources development, and 4-H Youth Development.

The Cooperative Extension office is often recognized by the name of Farm and Home Advisor's Office. For many years, the office was known as the Agricultural Extension Service. In addition to the traditional mission of increasing agricultural efficiency and improving farm family living, the office has been responsive to the growing needs of both the rural and urban citizens of all economic levels. The Kern County Office is staffed with a group of farm, home, and youth advisors who are employees of the University of California.

Kern County's Cooperative Extension program is designed to adapt and deliver the results of research and new knowledge to people located in communities beyond the reach of the campuses of the University of California, and to bring problems and needs from individuals/communities back to the research centers for exploration and research.

Most Cooperative Extension services are provided without charge. There is nominal charge for many of the publications printed and distributed by the University of California. Funding comes from the federal, state, and county governments (approximately 24, 59, and 17 percent respectively). The state and federal governments contribute to the program by providing office space and facilities, clerical staff, field assistance, and transportation.

The 4-H Program services more than 1,300 youth in Kern County. They belong to over 50 clubs located in nearly every community. Approximately 500 adults are volunteer 4-H leaders. The program serves urban and rural youth from the ages of 9 to 19. Youngsters are given the opportunity to develop their interest in more than 70 "learn-by-doing" projects. They also gain experience in leadership, community involvement, and public speaking through a variety of activities.

The office also administers a Home Economics Outreach program. The program stresses practical information for families in the following areas:

- Food Safety
- Family Nutrition
- Food Buying
- Money Management
- Food Preparation and Preservation

Programs in human relations deal with problems of working mothers such as coping with stress and time management. Family communication and care for the aging represent another area of human relations. As family concerns shift with the changes in society, the programs also shift to address new issues.

The Cooperative Extension office also employs ten advisors to assist commercial and home garden growers with field and vegetable crops, pest management programs, orchards and vineyards, meat, milk, and wool production, environmental horticulture, and the master gardener program. These advisors are knowledgeable in specific areas and work directly with urban and rural clientele on improving their crops or gardens.

FACULTY/STAFF ASSIGNMENTS AND YOUTH PARTICIPANTS

UC Faculty	9.0
UC Staff	1.0
County Staff	6.0
4-H Youth	1,375
4-H Volunteers	478

UC Cooperative Extension, Kings County
680 North Campus Drive
Hanford, CA 93230
209-582-3211, ext. 2730

Contact person: Ernestine Ivans
209-582-3211, ext. 2735

Kings County Cooperative Extension has three major programs, Agricultural Program, Family and Consumer Service Program, and the 4-H Program. The office provides the citizens of Kings County with services and research information to improve the quality of life for all residents in the region.

The Agricultural Program employs five Farm Advisors and focuses on the following five major areas:

Cotton and Agronomic Crops
Dairy, Livestock, and Forage
Tree Fruit, Vines, and Nut Crops
Soils and Water
Small Grains

These programs served over 3,200 clients in 1989-90 and assisted Growers, Dairy and Forage Producers, and Cotton and Agronomic Crop Producers. The Tree Fruit, Vines, and Nut Crops Program served well over 1,200 clients.

The Family and Consumer Service Program objective is to extend current information in the areas of Food and Nutrition and Family Well Being to local health professional extenders, families, and individuals. The program served over 470 low income families during 1989-90 and provided information and services in the following areas:

Nutrition Information
Food Safety
Food Preparation/Preservation
Parenting Skills
"Money Sense" Program

The 4-H Program served nearly 600 youths in 34 groups. The program offers youth the opportunity to pursue their interest in educational, agricultural, and livestock competition. The program offers youth leadership training, citizenship training, and other activities to assist youth in their development as contributing members of the society.

FACULTY/STAFF ASSIGNMENTS AND YOUTH PARTICIPANTS

UC Faculty	6.0
UC Staff	0.0
County Staff	4.0
4-H Youth	594
4-H Volunteers	NA

UC Cooperative Extension, Madera County
328 Madera Avenue
Madera, CA 93637
209-675-7879

Contact person: Rocky Teranishi

FACULTY/STAFF ASSIGNMENT AND YOUTH PARTICIPANTS

UC Faculty	6
UC Staff	0
County Staff	2.5
4-H Youth	850
4-H Volunteers	250

UC Cooperative Extension, Mariposa County
5009 Fairgrounds Road
Mariposa, CA 95338
209-966-2417

Contact person: Wayne Johnson

Mariposa County is served by the University of California Cooperative Extension program with two advisors: the Farm/Youth Advisor, who also serves as the County Director for administration, and an area Home Economist (serving Madera, Merced, and Mariposa Counties). The office serves the county through the advisors in the following areas:

- Agriculture
- Home Economics
- Public Information Programs
- 4-H Youth
- Community Resource Development

The objective of Cooperative Extension is to provide county residents with current research-based information which clientele may use to solve their individual or collective problems. This is accomplished through a network of UC academic, specialist, and support staff who provide resident staff with backup support and research, including the resources of the Agricultural Research Stations.

The Agriculture and Public Service Programs provide the county with various services. The program offers seminars and classes for growers as well as city and regional departments, and even provides information for the general public on various agriculture and safety-related topics.

The 4-H Youth Program serves over 200 county youth with the assistance of 82 volunteers. The program focuses on leadership development and sponsors various countywide events.

The Home Economics Program provides service in a variety of areas of concern to the county. The program has trained 12 master food preservers to provide information on canning, freezing, and preservation. The program also conducted a "needs assessment" survey in cooperation with Woodland School on the problem of "Latch Key" children. This has become an on-going project of the Cooperative Extension office, and it will continue to research and address this concern. The program also conducted two projects by request of the "Independent Living Program" which assists foster children who will soon be 18, to begin the adjustment to being on their own. The Home Economics Program also conducted a research project on the nutritional status of local Indian groups, and the study was accepted by the National Dietitian Association as a pilot study project.

FACULTY/STAFF ASSIGNMENT AND YOUTH PARTICIPANTS

UC Faculty	1.0
UC Staff	0.0
County Staff	1.0

4-H Youth	224
4-H Volunteers	82

UC Cooperative Extension, Merced County
2145 Wardrobe Avenue
Merced, CA 95340
209-385-7403

Contact person: Jim Farley
Acting Director

FACULTY/STAFF ASSIGNMENTS AND YOUTH PARTICIPANTS

UC Faculty	12.0
UC Staff	2.0
County Staff	3.5
4-H Youth	1,200
4-H Volunteers	480

UC Cooperative Extension, San Joaquin County
420 South Wilson Way
Stockton, CA 95205
209-468-2085

Contact person: Gary Johnston

FACULTY/STAFF ASSIGNMENTS AND YOUTH PARTICIPANTS

UC Faculty	11.5
UC Staff	4.0
County Staff	7.0
4-H Youth	1,729
4-H Volunteers	615

UC Cooperative Extension, Stanislaus County
733 County Center III Court
Modesto, CA 95355
209-525-6654

Contact person: Philip P. Osterli

Cooperative Extension's mission is to bring research-based knowledge to the people of Stanislaus County to help them make sound decisions, solve their problems, and improve their economic well-being and quality of life. The Cooperative Extension staff in Stanislaus County is specifically tailored to the County and consists of 12 academic advisors headquartered in the office. An area soils and water specialist, area integrated pest management advisors, and an area turkey advisor are headquartered in neighboring counties with assignments that include Stanislaus County. Extension's delivery system is through highly-trained farm, home, and youth advisors supported by a statewide staff of Extension specialists, University of California faculty, and USDA specialists.

FACULTY/STAFF ASSIGNMENTS AND YOUTH PARTICIPANTS

UC Faculty	12.0
UC Staff	3.0
County Staff	6.0
4-H Youth	1,213
4-H Volunteers	610

UC Cooperative Extension, Tulare County
County Civic Center
Ag Building
Visalia, CA 93291-4594
209-733-6363

Contact person: Carol Frate
Acting County Director
209-733-6365

Cooperative Extension is committed to providing accurate, up-to-date information of current interest to improve the quality of life in Tulare County. As part of the University of California, the office seeks solutions to local problems by developing ways to apply research-based knowledge. Concentration areas are: agriculture, food, nutrition, human relations, resource management, and youth development. Programs strive to reach residents through workshops, meetings, newsletters, consultations, field days, demonstrations, seminars, and mass media. The office also provides bilingual literature to Spanish-speaking residents.

The office provides services in the following five major areas: agriculture and natural resources, home economics, 4-H Youth, public policy education, and Cooperative Extension publications.

FACULTY/STAFF ASSIGNMENTS AND YOUTH PARTICIPANTS

UC Faculty	14.0
UC Staff	1.0
County Staff	9.0
4-H Youth	1,300
4-H Volunteers	500

UC Cooperative Extension, Tuolumne County
Mailing address: 2 South Green Street
52 North Washington Street
Sonora, CA 95370
209-533-5695

Contact person: Don Appleton

FACULTY/STAFF ASSIGNMENT AND YOUTH PARTICIPANTS

UC Faculty	1.33
UC Staff	0.0
County Staff	2.0

4-H Youth	730
4-H Volunteers	190

HEALTH SERVICES

Health Sciences/Medical Education
2615 East Clinton Ave.
Fresno, CA 93703

Associate Dean of Fresno
Medical Programs

David Altman
209-224-3235

UCSF contact person:

David Sanchez
415-476-1881, 3279

The University of California San Francisco's Fresno Central San Joaquin Valley Medical Education Program is a clinical branch of the University of California San Francisco School of Medicine and is an integral part of the School. Faculty of the program hold their academic appointments at UCSF, house staff are registered postdoctoral students of UCSF, and Fresno is the site of core clerkships for UCSF medical students. The Fresno program retains its regional identity with strong ties to local health care and educational institutions, sensitivity to the rural and agricultural centers of the Valley, and emphasis in primary care training. Its academic activities extend well beyond the main teaching hospitals -- Valley Medical Center, Veterans Administration Medical Center, and Valley Children's Hospital -- to hospitals, nursing homes, health agencies, and practitioners' offices throughout the San Joaquin Valley.

Postdoctoral programs provide internship and residency training to a house staff that usually numbers over 160. The major clinical disciplines are represented, with emphasis in primary care fields. They include: emergency medicine, family practice, internal medicine, obstetrics-gynecology, pediatrics, psychiatry, radiology, and surgery.

A full-time physician staff of approximately 125 is complemented by a volunteer clinical faculty of 375 who are practitioners in the community. For medical students, the Fresno program offers core and elective clinical clerkships, many of which are conducted in close association with the house staff training programs. Approximately 120 medical students participate in the program each year.

The context of the program, a region that is predominantly rural and agricultural, presents opportunities for clinical experience and investigation of health problems not so readily available to larger urban medical centers.

Taking advantage of this unique situation, many of the patient care, teaching, and research activities of the medical center's education program have an orientation toward rural health problems and health service needs.

Clinical instruction for third and fourth-year medical students and postdoctoral residency programs occur in varied

settings that take advantage of the regional resources of the UCSF Fresno Medical Education Program. A medical education building was constructed to serve as the administrative base for the UCSF Fresno Medical Education Program and to house other common purpose facilities which serve the program's educational needs: auditorium, classrooms, biomedical library, medical media, computer center, and research laboratories. A centrally-located Dean's office provides administrative support and coordination for overall program activities, and serves as principal liaison to the San Francisco campus.

The three principal teaching hospitals in Fresno are described below:

Valley Medical Center (VMC) has been a major teaching hospital in the Central San Joaquin Valley for over 80 years. Almost 25 percent of the physicians now practicing in the region received some internship or residency training at the VMC. The hospital became formally affiliated with UCSF in 1975 with the initiation of the UCSF Medical Education Program.

The VMC is a 417-bed medical facility that is a county-supported community hospital providing inpatient and comprehensive outpatient services to patients of all ages. Annually, there are over 15,000 admissions, 4,500 major surgical procedures, 3,300 deliveries, and 200,000 out-patient and emergency department visits. Special hospital services include a regional burn center, inpatient psychiatric unit, high-risk maternity program, center for chronic renal dialysis, and level-one regional trauma center. VMC is the training site for nearly two-thirds of UCSF Fresno program postdoctoral trainees. A full-time physician faculty of approximately 77 is augmented by a substantial volunteer clinical faculty.

The **Veterans Affairs Medical Center (VAMC)**, which first opened in 1950, serves over 150,000 eligible veterans who live in and adjacent to the San Joaquin Valley. In 1975, the VAMC formally affiliated with the University of California San Francisco Medical Education Program. The hospital provides over 40 house staff positions and 52 full-time physician faculty. The VAMC is the principal base for residency programs in psychiatry and diagnostic radiology, is a major participant in internal medicine residency, and provides clinical instruction for residents in family practice, ophthalmology, and general surgery. In addition, the hospital is a training site for students in nursing and allied health professions. A general acute care hospital with 265 beds, it has over 5,200 admissions, 1,500 major surgical procedures, and 86,200 outpatient visits annually.

Valley Children's Hospital (VCH), which opened in 1952, is a regional referral center for pediatric care. The 137-bed pediatric

hospital has over 5,300 admissions, 4,900 major surgical procedures, and 35,900 emergency visits per year. The hospital is the regional center for neonatal intensive care and offers specialized services in clinical genetics and cardiac surgery. VCH is the principal site for inpatient pediatric residency training and provides clinical instruction for medical students and house staff in family practice, surgery, psychiatry, and radiology. Other health professional training includes clinical instruction for nurses, medical technology interns, respiratory therapists, and X-ray technicians.

The UCSF Medical Education Program is also affiliated with other local hospitals and health service providers. The major affiliates are: Community Hospitals of Central California, Saint Agnes Medical Center, Selma Community Health Center, Selma District Hospital, Ventura P. Huerta Health Center, Kings View Center, Kings County Mental Health, Atascadero State Hospital, and Kaweah Delta District Hospital.

AUTOMATED VITAL STATISTICS SYSTEM (AVSS)
Community and Organization Research Institute
University of California
Santa Barbara, CA 93106
805-893-3143

Contact person: Ronald L. Williams

The Automated Vital Statistics System (AVSS) is a computer program for automating vital statistics and public health records. Developed by the University of California, in cooperation with the State Department of Health Services, AVSS has been implemented by more than 30 local health jurisdictions throughout California.

Although it was developed on a minicomputer for use in health departments, AVSS is also available on a microcomputer, which means that hospitals can implement the program on a PC. This breakthrough benefits both hospitals, local health departments, and the State Department of Health Services. Private institutions benefit because less effort is required to produce state-mandated forms, such as birth certificates. In addition, a hospital database for use in reports is automatically established. Public agencies also benefit since more accurate and timely data are available to monitor important public health trends.

With AVSS, hospitals prepare birth certificates on a computer, print the certificate, and have the ability automatically to transfer the information to the county via telephone using a modem. Hospitals find that they can create a certificate in less than half the time it takes to prepare one manually and that the certificates are more accurate. AVSS can also be used to generate valuable statistical reports for descriptive, quality assurance, and marketing purposes.

Presently AVSS is utilized by five counties in the San Joaquin Valley, with the 15 hospitals listed below participating in the service.

Fresno County Department of Health

Clovis Community Hospital
Fresno Community Hospital
Selma District Hospital
Sierra-Kings Hospital
Saint Agnes Hospital
Valley Medical Center of Fresno

Madera County Health Department

Madera Community Hospital

Merced County Health Department

Merced Community Medical Center
Mercy Hospital

San Joaquin Local Health District

St. Joseph's Medical Center
San Joaquin General Hospital
Stanislaus County Health Department
Doctors Medical Center
Emanuel Hospital
Memorial Hospital

In addition to automating vital records, AVSS is also collecting data on communicable diseases in the counties and telecommunicating this information to the Infectious Disease Branch in Sacramento. It is hoped that this more timely monitoring of diseases will help public health workers in their efforts to control the recent increases in such communicable diseases as measles and tuberculosis.

VETERINARY SERVICES

University of California, Davis
Veterinary Medicine Teaching and Research Center
18830 Road 112
Tulare, CA 93724

Contact person: Leon D. Weaver, VMD, Director
209-688-1731

The School of Veterinary Medicine has a long history of commitment to the efficient production of wholesome food of animal origin. Cooperative livestock herds, the local livestock populations, interaction with the practicing veterinarians, and diverse animal health care programs provide a rich environment for teaching and research programs.

The Veterinary Medicine Teaching and Research Center (VMTRC) located in Tulare is an integral component of the University of California Davis' School of Veterinary Medicine. Tulare County offers an established center of livestock production and a developing center for poultry production. The livestock and poultry industries in Tulare County are expected to continue to grow and diversify into the 21st century.

The primary roles of the VMTRC are clinical teaching and research in food-producing animals. These activities expand knowledge of population medicine methods and the role of health-related factors in animal productivity. The VMTRC programs in poultry, small ruminants, swine, beef, and dairy are linked to programs on the UC Davis campus and to six other U.S. Veterinary Schools through the Food Animal Production Medicine Consortium. A Center for Dairy Herd Health and Production Medicine is being developed within the VMTRC.

The VMTRC has approximately seven Tulare-based faculty members associated with the Departments of Medicine, Epidemiology and Preventive Medicine, and Pathology on the Davis campus. More than 40 scientists, technical, and administrative staff provide office, laboratory, computer, technical, financial, and maintenance support.

Veterinary students and graduate students in M.S. and Ph.D. programs are involved extensively in academic programs in a combination of study at both the Davis campus and the VMTRC. Senior veterinary students receive instruction in population medicine as part of their rotations in clinical practice. The Center also offers two to four-week instructional programs to selected veterinary students from institutions throughout the United States and Canada.

The foundation of the VMTRC academic plan is a strong research program in population medicine. The central theme is the quantitative analysis of health and ill health in populations of food animals. Much of the research conducted from the VMTRC is applied and involves collaborative efforts with other faculty at the VMTRC, Davis, and other institutions. Recent research at the Center has included the development of new analytic approaches to herd problems, safety testing of new production-enhancing agents

available through biotechnology, and clinical evaluation of new vaccines.

The clinical programs of the VMTRC are directed at solving specific methodological problems confronting practitioners engaged in food animal practice. These problems include identifying effective and economical strategies for providing veterinary medical care in programs of herd health and production medicine. The clinical program is extensively involved in local herds serviced by production-medicine faculty. These clinicians are supported by discipline-oriented faculty with expertise in epidemiology, food safety, young stock management, clinical nutrition, udder health, theriogenology, and diagnostic services.

The VMTRC also provides a base for Cooperative Extension (see Cooperative Extension section for more information) personnel with assignments in food animal production, food safety, and related environmental issues. Extension personnel provide a valuable service as liaisons, connecting farm advisors, veterinary practitioners, producers, industry organizations, government agencies, and VMTRC faculty and staff.

The Teaching and Research Center provides the State of California and the San Joaquin Valley in particular with a unique and needed service, veterinary research, and education. The UC Davis School of Veterinary Medicine is one of the few veterinary schools on the West Coast, and trains the majority of veterinarians and veterinary researchers in the State of California. Veterinary services are especially important and vital to the San Joaquin Valley region. UC Davis is the primary provider of current data to the livestock enterprises, and VMTRC serves as a referral center for practicing food animal veterinarians of California.

California Veterinary Diagnostic Laboratory System (CVDLS)

CVDLS, Fresno
2789 South Orange Avenue
Fresno, CA 93725

Contact: Dr. Richard Chin, DVM, MPVM, Branch Chief
209-266-9418
FAX 209-485-8097 Attn: Kathy

CVDLS, Tulare
18830 Road 112
Tulare, CA 93274

Contact: Dr. Patricia Blanchard, DVM, Ph.D., Branch Chief
209-688-7543

CVDLS, Turlock
P.O. Box P
Turlock, CA 95381

Contact: Dr. Art Bickford, DVM, Ph.D., Branch Chief
209-634-5837
FAX 209-667-4261

The California Veterinary Diagnostic Laboratory System (CVDLS) is a statewide network of five diagnostic laboratories. Its mission is to provide high quality diagnostic services to control diseases in livestock and poultry, enhance the health management of livestock and poultry in California, protect the public health from diseases common to animals and humans, and recognize and disseminate new knowledge. The system is a cooperative effort involving the School of Veterinary Medicine at UC Davis, California Department of Food and Agriculture, and California's Animal Agriculture Industries. A Veterinary Diagnostic Laboratory Board, composed of representatives from the livestock and poultry industry, as well as practicing veterinarians, advises the California Department of Food and Agriculture and University of California on all aspects of the CVDLS operations.

Three of the five CVDLS laboratories are located in the San Joaquin Valley in areas of intensive poultry and dairy production. The San Joaquin Valley laboratories located at Turlock and Fresno provide full diagnostic services to the poultry industry. The laboratory at Tulare services the livestock and equine industries. The services include serology, virology, pathology, histopathology, parasitology, and bacteriology; via an overnight courier system, toxicology is also available from the central Davis laboratory.

The current size and sophistication of poultry and livestock production units require rapid and accurate testing using state-of-the-art techniques to identify disease problems quickly and implement control methods. The CVDLS is committed to supplying this type of service with ongoing upgrading of diagnostic testing in order to respond rapidly to industry needs. The CVDLS also

provides laboratory support for the California Department of Food and Agriculture surveillance programs for foreign animal diseases, epidemic domestic diseases, and diseases in animals and animal byproducts that have public health significance. The CVDLS serves as a liaison between California's animal industries and the School of Veterinary Medicine, providing current information on important food animal and equine diseases so that veterinary researchers can focus increased attention on these problems to find timely and practical solutions.

The Turlock Branch Laboratory has served the poultry industries of the northern San Joaquin Valley since its inception in 1949. Within the service area of this laboratory (primarily San Joaquin, Stanislaus, and Merced Counties), poultry production is a major agricultural activity, including annual grow-out of 10-12 million turkeys and about 150 million broiler chickens, and maintenance of approximately 10 million egg-type chickens. The Turlock Laboratory offers a full range of diagnostic services and tests such as necropsy postmortem examination, serum testing (ELISA, AGP, plate agglutination, etc.), bacterial isolation and identification (including Mycoplasma), virus isolation, parasite identification, microscopic pathology (histopathology), and several others. Virus identification, electron microscopy, and toxicology testing are done in other CVDLS Laboratories (Fresno or Davis). Postmortem findings are usually reported to producers within 24 hours and most other test results are reported within seven-to-ten days. The Turlock laboratory also serves as a training site for a CVDLS Poultry Disease Residency position for a select few undergraduate, veterinary, and graduate students. Another important activity of the laboratory is investigation of new or unusual poultry diseases, with goals of better definition or improved preventive or control measures.

JOINT DOCTORAL DEGREE PROGRAMS

UC Davis/CSU Fresno (Education)
Joint Doctoral (Ed.D.) Program in Educational Leadership

UC Davis

Contact person: Jon Wagner
Acting Director, UC Division of Education
Davis, CA 95616-8579
916-752-8258
916-752-4687

CSU Fresno

Contact person: Rosemary Papalewis, Co-Director
Michael Slater, Associate Co-Director
CSU Fresno/UCD Joint Doctoral Program
351 East Barstow Avenue, Suite 101
Fresno, CA 93710-6002
209-228-2050

The program enrolled its first students in the Fall of 1991. The program will offer an interdisciplinary Ed.D. program, with four areas of specialization:

- * Organizational Studies;
- * Assessment and Evaluation;
- * Curriculum, Instruction, and Supervision; and
- * Socio-cultural Context.

Thirteen students will be admitted annually. The program will have joint admissions applications. The admission process will require transcripts, the GRE or Miller's Analogies Test, statement of purpose, and letters of recommendation.

All course work units will be available at the California State University Fresno (CSUF) campus. The doctoral degree program requires 60 units beyond the master's degree.

Special talents, skills, and knowledge of other languages and cultures will be considered as an important component of leadership potential.

**UC Santa Barbara (UCSB) and CSU Bakersfield (CSUB) (Education)
Proposed Joint Doctoral (Ph.D.) Program in Education Policy,
Organizations and Leadership**

NOTE: PLANNING FOR THIS PROGRAM IS STILL IN PROGRESS.

UC Santa Barbara Graduate School of Education
Santa Barbara, CA 93106-9490

Contact person: Dean Richard Shavelson
805-893-3917

Other contacts: Priscilla Drum, Chair
805-893-3860

CSU Bakersfield
9001 Stockdale Hwy.
Bakersfield, CA 93311

Contact: Dean Betty Greathouse
805-664-2010

A joint doctoral program is in the preliminary proposal stage at this time. The program will be designed around:

- a) The requirements for the Ph.D. program in Educational Policy, Organizations, and Leadership at UCSB Graduate School of Education; and
- b) A Research Center in the Bakersfield area in which UCSB and CSUB faculty jointly conduct research in areas of policy, organization, and leadership.

The principal objective of the joint program is to provide doctoral-level training for scholar-practitioners in the San Joaquin Valley, where there is a pressing need for educators with professional and research abilities to address the challenge of developing an educational system responsive to a multi-cultural society. Students in the proposed program will spend their time at both campuses, completing the core courses at Bakersfield, the methodology and specialization requirements at UCSB, and the dissertation research in their own educational setting.

Administration: The core of the UCSB faculty for the joint program will be drawn from the faculty of the Confluent Education, Educational Policy, Organizations and Leadership, and Educational Psychology Programs at UCSB. One member of the core joint doctoral faculty will serve as program coordinator at UCSB. This faculty member will work closely with the CSUB coordinator, who will have primary responsibility for program administration. The CSUB faculty involved with the project will be determined by CSUB.

OUTREACH/RECRUITMENT SERVICES

Fresno

University of California Regional Office
Office of Relations with Schools
San Joaquin Valley Regional Office
1177 East Shaw Avenue
Fresno, CA 93710

Contact person: Encarnacion Ruiz
209-225-5611

The mission of the Office of Relations with Schools and Colleges is to act as a liaison between the University of California and the Central San Joaquin Valley as a representative of Student Academic Services. The majority of the services relate to academic programs and policies with an emphasis on undergraduate affairs. The present service area of the office includes Tulare, Kings, Fresno, Madera, Mariposa, and Merced Counties.

One of the office's principal objectives is to improve access to the University of California for Central Valley students. Services are available to the entire Valley population, with a special emphasis on rural communities. The office maintains communication with every high school and community college in the service area. The office assists schools and colleges with issues addressing student preparation, articulation, curriculum development, and admissions policies and procedures. Services to prospective students and the community at large include: providing current information regarding admission policies and the financial aid process, facilitating campus visits, and assisting with questions on housing, campus life, and other areas. In addition, the office maintains a resource center of information and campus videos.

Throughout the area, the office hosts a variety of programs, including the Field Evaluation Program (designed to encourage underrepresented students to apply to the University of California), New Admit Program (a program in a picnic setting that helps ease the transition into the University from the Valley for new students), Visiting Scholars (UC faculty members share recent research and information with students and local educators), and application and financial aid workshops.

**Early Academic Outreach
San Joaquin Valley Regional Office**

UC Santa Cruz
2115 Kern Street #3
Fresno, CA 93721

Contact person: Linda Cueller
209-445-5163
Fresno

The University of California Santa Cruz (UCSC) Early Academic Outreach Program (EAOP) in Fresno has grown from 28 to 1,934 students since its inception in 1978. The EAOP serves 30 schools (18 high schools and 12 middle schools). The staff consists of one Program Coordinator, three EAOP Counselors, one Secretary, nine part-time Student Advisors-Tutors, and one Full-time VISTA Volunteer.

The EAOP aims at increasing the number of underrepresented minority and low-income students who pursue higher education. Important services offered by the program include academic advising, counseling, tutorial services, and assistance with financial aid applications. Selection of students is based on a student's need, ability, and desire to participate in the program. EAOP staff help students select academic courses to meet college admission requirements and to prepare for their future course of study. The program arranges visits to one or more University campuses.

The EAOP sponsors various special projects and programs during the academic year that specifically address Valley education issues and concerns. Listed below are some of EAOP's current projects:

EAOP works with the Volunteers in Service to American Program (VISTA) to provide services to 9-12th grade Native American reservation students. VISTA has allocated one FTE Native American Outreach Counselor. Over 175 Native American students have received EAOP services through the special project. It is unique, in that no other segment of higher education has provided continuous EAOP services to reservation Native Americans.

EAOP sponsors an Eligibility Reception for Native American Seniors and their parents. This event recently has yielded one to five UC enrollees, which otherwise would not have applied to UC. One senior from this group was awarded a Regents' Scholarship to UC Davis.

Intersegmental efforts with CSU Fresno include: Annual Chicano Youth Conference, joint Financial Aid Workshops, Annual Black Student Recruitment Conference, American Indian Pow Wow, UC Eligibility Reception for American Indian Seniors, EAOP African College Social, and RACHE Statewide Conference coordination.

Intersegmental efforts with school districts include: Fresno and Visalia Unified School Districts Parent Conferences; SAT, Subject-A-Prep, and ninth grade Writing Skills Workshops; Fresno, Hanford, Visalia, Madera, and Roosevelt High School College Nights; Fresno Unified, Title V American Indian Graduation and program exchanges; and Visalia Unified School District Title V Pow Wow.

Intersegmental efforts with other campuses include: Annual UCD, UCB, UCSC, Three-day Campus Trip for senior applicants and junior EAOP students; Annual eighth grade UCD Veterinary Research Center trip; UC Office of Relations with Schools (ORS) Financial Aid Workshops, Field Evaluation Program, UC Admit Picnic; and UCSF tenth grade Summer Program. UCSC efforts also include: College Motivation Program for American Indian Students; MESA Parent Conference; African Appreciation Day; and Summer Academic Institute, Summer Bridge Program, and the Student Affirmative Action/Educational Opportunity Program Yield Conference.

The services described above have proven to be very effective in increasing the number of students who enroll in higher education. Since 1987 EAOP students have a college going rate of over 90 percent. Approximately 25 percent of the program graduates enroll directly at a UC campus, and over 30 percent enroll in a California Community College.

Transfer Opportunity Centers

UC Davis

P.O. Box 3283
Pinedale, CA 93650

Contact person: Martin Flores
209-645-4117

The UC Davis Transfer Center provides assistance to students in the Valley through direct services and support at various Valley community colleges. The transfer centers offer the following services:

1. Identify and encourage students from underrepresented ethnic groups to transfer;
2. Assist potential transfer students to prepare for upper-division work;
3. Assist transfer students in filling out applications for admission with advanced standing;
4. Monitor and support the progress of transfer students through referrals to student services;
5. Inform and motivate students; and
6. Involve faculty and staff in strengthening curriculum and articulation.

The Transfer Opportunity Program (TOP) encourages community college students to transfer to UC Davis and other UC campuses. The cornerstone of the program is the TOP transfer advisor who regularly visits each of the participating community colleges to work with counselors and students.

The TOP advisor provides information about admission and transfer requirements, academic programs, financial aid, housing, tutoring, campus life, and other programs and services. The advisors evaluate transcripts to assure that admission requirements are met and that community college courses taken are transferable to the University. The TOP advisor also works with counselors and students to develop individual transfer admission agreements for UC Davis.

Students at several community colleges in the Valley may also develop transfer admissions agreements with UC Davis, even though their particular college does not participate in TOP.

With the assistance of their community college counselor, students draft an agreement for review by a UC Davis admissions representative. The agreement lists the courses that the student will complete at the community college, with emphasis on courses required for admission, major prerequisites, and breadth

requirements. Students who comply with the agreements are guaranteed admission, in advance, in all majors.

The TOP advisor works closely with counselors and students at the following target community colleges: Fresno, Kings River, Merced, and College of the Sequoias. The advisor has a case load of over 300 students who are provided direct services at these colleges. In 1989, 118 students transferred from these colleges to the University of California. Transfers from these colleges comprise almost half the total number of transfers from Valley community colleges.

**MATHEMATICS, ENGINEERING AND SCIENCE ACHIEVEMENT
(MESA)**

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MESA is dedicated to increasing the number of historically underrepresented minority students who are capable of graduating from colleges or universities with science, engineering, or mathematics degrees. The program works with students in a way that builds their self-esteem and confidence, and increases their skills, knowledge, and motivation so that they can achieve their full potential.

MESA recruits college-bound ethnic minority students:

Chicano/Latino	-	75%
African-American	-	23%
Native-Americans	-	2%

Over 90 percent of MESA high school graduates go on to college. Over half of them major in mathematics or science-related college studies.

The two Valley MESA projects had over 1,000 active students during 1990-91.

MESA students are required to take mathematics (algebra, geometry, and calculus), and science (chemistry, physics, and biology), and four years of college-prep English. The students also participate in various enrichment activities, such as field trips to industry (oil field production, computer science, NASA-AMES, etc.) and college and university visits (UCLA, Stanford, CSUB, and CSUF). The program also assists students with summer employment and with scholarships for their college education.

Through the MESA office at both CSU Bakersfield (CSUB) and CSU Fresno (CSUF), the Minority Engineering Program (MEP) is administered. CSUB has approximately 70 MEP students while CSUF has 150 student participants.

MEP students receive the following support services: scholarships, academic and personal advising, freshmen orientation, and career counseling.