

Natural Resources Conservation Service  
Farm Service Agency  
Department of Fish and Game  
US Fish & Wildlife Service  
Tehama County Public Works  
CalFire  
Department of Conservation  
Department of Water Resources  
US Forest Service  
The Nature Conservancy  
California Native Plant Society  
Anadromous Fish Restoration Program  
Deer Creek Watershed Conservancy  
National Park Service  
Bureau of Reclamation  
California Fire Safe Council  
UC Cooperative Extension  
California State University, Chico  
Sierra Nevada Conservancy  
Sacramento River Discovery Center  
Sunflower CRMP  
Sierra Nevada Alliance  
City of Red Bluff  
Tehama County Resource Advisory Council  
Other Resource Conservation Districts

References available upon request.

## INFORMATION

For further information regarding  
GIS services, please contact:

### TEHAMA COUNTY RESOURCE CONSERVATION DISTRICT

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Randy Cousineau

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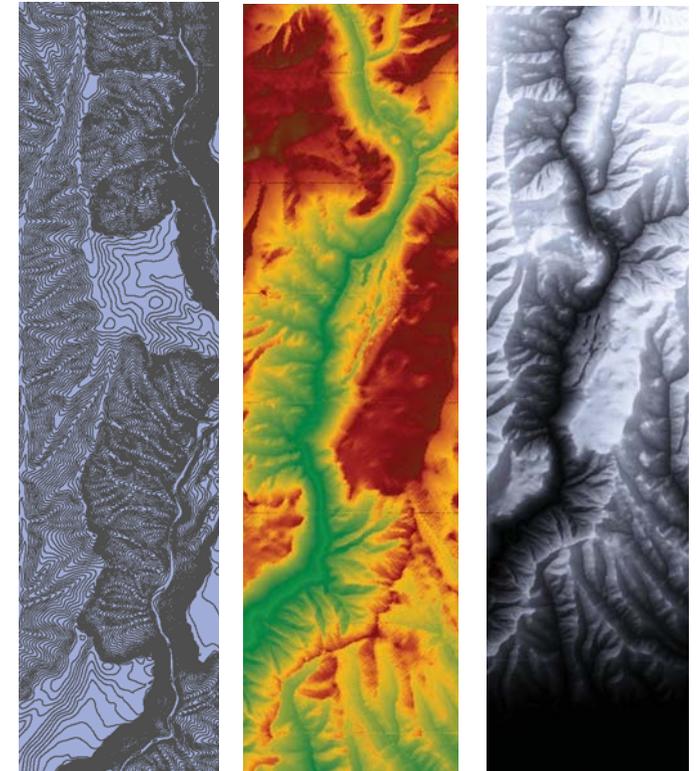
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# GIS TECHNOLOGY



conserve  
preserve  
manage

TEHAMA COUNTY  
RESOURCE CONSERVATION DISTRICT  
• GIS Services •

## OVERVIEW:

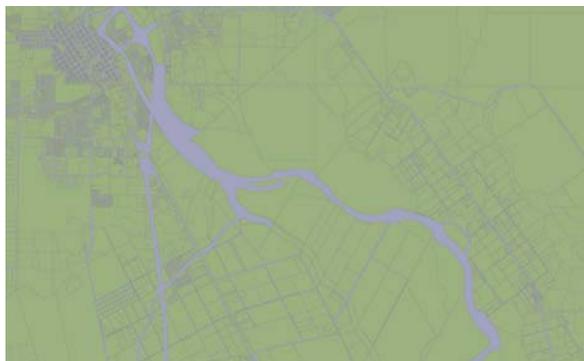
Geographic information systems (GIS) technology is used to create customized digital maps, combining publicly available and field-collected datasets. Analysts use maps, global positioning systems (GPS) data, scanned aerial photographs, satellite imagery, and text/tabular data. GIS technology is being utilized by managers and decision makers to assist with conserving, preserving, and managing our precious natural resources.

The GIS team at Tehama County Resource Conservation District has a wide range of problem solving and technical skills to aid in your daily operations and in your project work. Going beyond the online mapping tools now familiar to many of us, TCRCDD analysts create customized maps and customized analyses tailored to fit specific goals and purposes.

Contracting is available at hourly rates or for a flat fee based upon your particular needs.

Portfolio maps are available for viewing online at the TCRCDD website under the Programs and Library links at:

<http://www.tehamacountyrcdd.org>.



## WHAT CAN GIS DO FOR YOU?

**WHERE:** Knowing where things are located is essential. Baseline data is an integral component of efficient and effective management of valuable natural resources. Applications for GIS include watershed inventory, rangeland management, asset tracking, documentation of existing conditions, and visualization for public outreach.

**WHAT:** An inventory of existing conditions is a first step. Field collection of geospatial data can be accomplished through GPS units, digital cameras, raster scanners, and personal interviews. Using GIS, this field data can then be incorporated into ongoing project efforts, furthering collaboration, coordination, and planning.

**WHEN:** Prioritizing actions ensures that important projects rise to the top. GIS analysis of environmental concerns can yield focused results with clear priorities. For example, GIS can help to quantify erosion potential, determine proximity to conservation lands or to urban encroachment, or compare stream miles, basin areas, and hydrologic discharge between watersheds.

**WHY:** Clear understanding results in cost-effective and economical projects. Virtual modeling of our environment through GIS enables decision makers to calculate outcomes and to test scenarios in advance, before energy and funds are committed.

## SAMPLE PROJECTS

- REGIONAL PLANNING •
- AGRICULTURAL AND FARMLAND PRESERVATION •
- COMMUNITY TRAIL LOCATION •
- GENERAL PLAN REVIEW •
- CHANGE DETECTION •
- HABITAT CONNECTIVITY •
- OPEN SPACE PROTECTION •
- CLIMATE TRENDS •
- SENSITIVE SPECIES •
- WATER QUALITY AND QUANTITY •
- GEOSPATIAL PATTERNS •

## GIS STAFF QUALIFICATIONS

The GIS team at Tehama County Resource Conservation District includes highly qualified personnel with training in the use of ESRI ArcGIS software, the ENVI remote sensing program, Trimble GPS units, and Adobe's Creative Suite of products, including Photoshop, Illustrator, and Flash. Available equipment includes GIS-enabled laptops with ArcView 9.2, HP wide format printer, Trimble GeoXM GPS, and an extensive library of public and proprietary GIS datasets.

**RANDY COUSINEAU - Project Manager.** With 20 years of experience in the use of GIS for natural resource management, Randy has served as TCRCDD's Project Manager, Watershed Coordinator, and GIS analyst since 2007. He also teaches geography and GIS at Butte College.

*Economics & Geography BS / Geography MA*

**CATHIE BENJAMIN - GIS Manager.** Cathie coordinates all GIS projects for TCRCDD and serves as network administrator, and she also works with CSU Chico as their GIS lab manager. She creates interactive GIS products and webtools using Flash programming.

*Biogeospatial Analysis BS / Geography MA candidate*

**ADDITIONAL GIS STAFF** includes GIS technicians and interns trained in the use of ESRI ArcGIS software.