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.

GIS TECHNOLOGY

INFORMATION

For further information regarding GIS services, please contact:
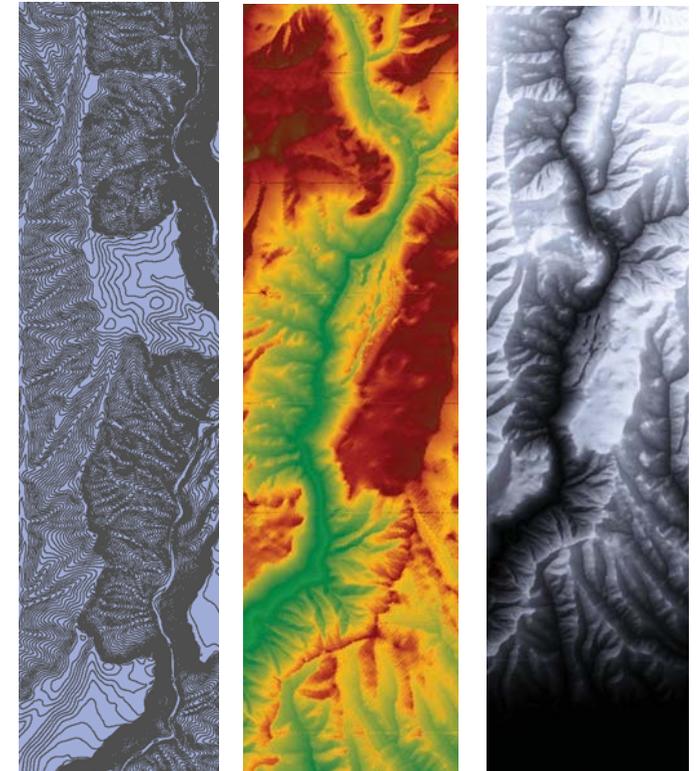
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conserve
preserve
manage

RESOURCE CONSERVATION DISTRICT OF TEHAMA COUNTY
• 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 important natural resources.

The GIS team at the Resource Conservation District of Tehama County 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, TCRCD 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 RCD website at:
    http://www.tehamacountyrcd.org/services/gis.html

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

CATHERINE COUSINEAU - GIS Manager. *Cathie coordinates all GIS projects for the RCD and also serves as network administrator. She creates online mapping products and flies a Phantom 4 quadcopter drone for precise aerial imaging.*
Biogeospatial Analysis BS / Geography MA

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