

## **NorthTree GIS - analysis, rapid assessment and decision support.**

### **Advanced GIS Mapping and Analysis**

NorthTree GIS has provided mapping services since 1999. We specialize in rapid assessment and incident support, having used GIS to manage over 50 major wildfires or construction projects.

NorthTree's techs provide advanced GIS analysis including:

- Automated watershed delineation and flow accumulation modeling using DEM data
- [Wildfire behavior modeling](#) using the FLAMMAP and FARSITE programs and ArcInfo GRID
- Development of large raster image catalogs
- Creation of large Landsat mosaics
- Use of Landsat imagery for vegetation mapping and landscape-scale fuels assessment
- Use of Arc AML to create batch processing tools for ArcInfo Grid
- Writing Linux batch files for file management
- Web development using .XML, .PHP, Adobe Flash, and Google Maps

We have extensive experience developing online GIS applications and location-based web-accessible database interfaces - having just built an major [online GIS and resource catalog website for the Sacramento River Watershed Program](#).

### **Qualified Personnel**

Our veteran mapping staff have experience ranging from professional cartography and GIS project management to helicopter aerial photography and post-fire severity mapping. We have accumulated over 40,000 hours of GIS staff time supporting wildfire operations across the West.

### **Quality Equipment & Other Services**

NorthTree GIS is a division of [NorthTree Fire](#) - a broad-based wildfire and industrial services contractor. We have [Mobile GIS trailers](#) with broadband satellite internet systems, networked computers, and plotters. We own 2 floating licenses for ArcInfo Grid and 3D analyst, and several copies of ArcMap. CAD and surveying support (using robotic total station) is available via subcontract to licensed civil engineer. CAD > GIS conversion/integration is available.

NorthTree also provides rental equipment including a large excavator with thumb, a D6 bulldozer, rubber-tracked brush masticating track loaders, a road grader, water tenders, a light tower, and small and large diesel generators. Wildfire crews and fire engines are available for standby work on pipeline and other heavy construction work during fire season, or for [fuels reduction work](#).

### **Locations**

Our mobile mapping labs and heavy equipment are based out of Marysville, CA. Our GIS manager lives in Chico. We have call-when-needed GIS techs in Bakersfield, Santa Barbara, Nevada City, Sacramento, Orland, and Chico California, and in Corvallis, Portland, and Bend, Oregon.

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