

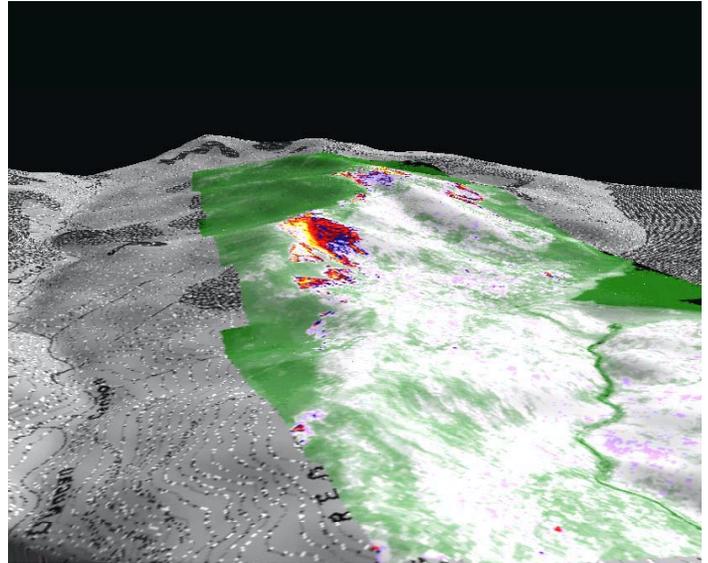
National Fire Plan

Riverside Fire Laboratory
Pacific Southwest Station
2001



Wildfire Imaging and Measurement

The Pacific Southwest Research Station (PSW) has developed specialized low-cost remote sensing technology that can quantify and map the intensity, fuel consumption, soil heating, and spread of wildland fires. Results will have value in prediction of fire behavior, tactical fire fighting, improved fire-fighter safety, and mitigation of fire effects. They will also allow the effectiveness of fuel treatments to be evaluated.



Color-coded surface temperatures, Star Fire, Eldorado National Forest, CA.

In the future the FireMapper system will be expanded to incorporate near-real-time data transmission and link flame properties to measured soil heating. It will also be applied to a series of active wildfires in the West, and image products will be tested against ground-based measurements and for use in fire suppression operations.

The FireMapper thermal imaging system