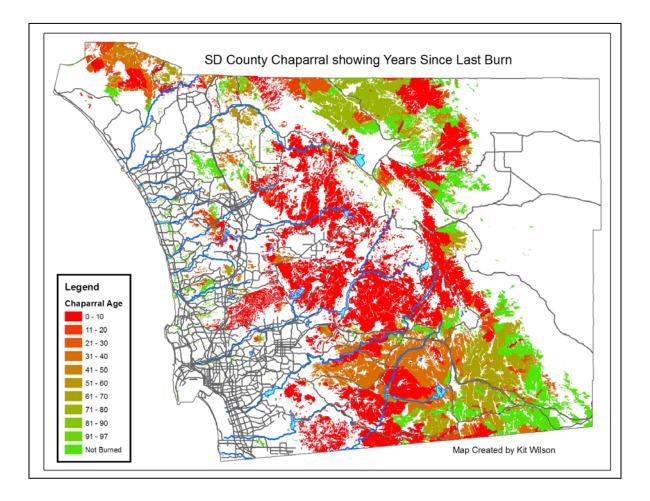
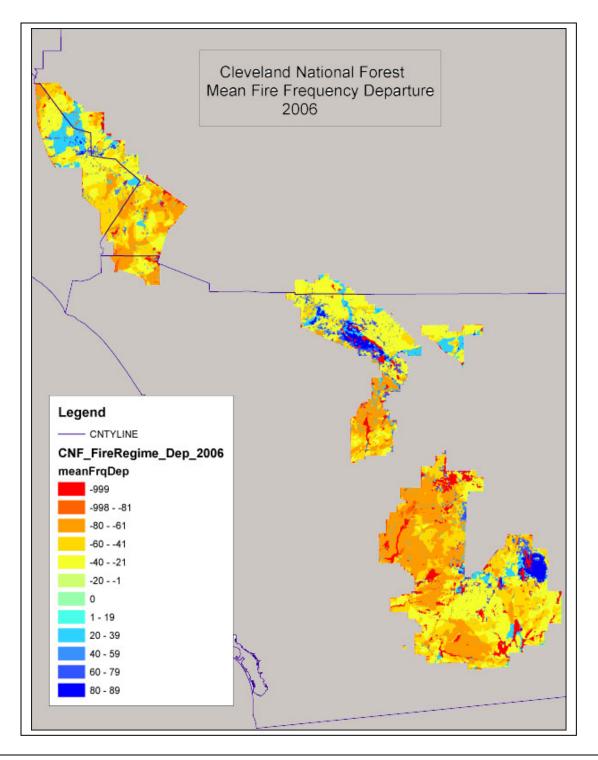
Too many fires, no chaparral



Chaparral being type-converted to weedy, non-native grassland. This site is east of Alpine off Interstate 8 in San Diego County. The far left shows 38-year-old chaparral last burned during the 1970 Laguna fire. The middle/left of the picture shows an area recovering from the 2001 Viejas fire. It is composed primarily of chamise, deerweed, and several other native shrub species. To the right is a portion of the Viejas fire scar re-burned in the 2003 Cedar fire. This area is now filled with non-native grasses. The majority of the re-sprouting shrubs have been killed and no obligate seeding species, such as Ceanothus, are present. The interval between the two fires was too short, causing the elimination of the chaparral plant community.



A significant amount of San Diego County's chaparral and coastal sage scrub habitat has burned over the past 5 years. Few old-growth chaparral stands have survived. In order to maintain a sustainable level of protection for the region's native species, it is essential that fire be kept out of the remaining old-growth shrubland ecosystems and areas that have burned over the past 30 years.



Most of the Cleveland National Forest has experienced more fire than its ecosystems can handle. Map above shows percent departure of current mean fire return interval (1910-2006) from reference mean fire return interval (pre-Euroamerican settlement). Areas with negative departures (e.g. red to green) are experiencing more fire today than in the pre-settlement period. Areas with positive departures (e.g., blue) are experiencing less fire today than in the pre-settlement period. Source: Hugh Safford, USFS.

What's at risk?

Native chaparral and sage scrub ecosystems.



The consequence of type-conversion. Chaparral and sage scrub ecosystems are replaced by non-native, weedy grasslands. Clevenger Canyon, east of Escondido, Highway 78.

