

Title: Hawaii Annual Area Burned 1904-2022

Summary: These data provide the available statewide record for annual area burned spanning 1904–2022 (updated annually) using combined data sets from Schmitt (1977) compiled from State and Territorial Forestry reports, online Hawai'i Department of Land and Natural Resources Division of Forestry and Wildlife (DOFAW) reports, and the Hawai'i Wildfire Management Organization (HWMO; hawaiiwildfire.org). Detailed description of data sources can be found in the citation below. Please contact Dr. Trauernicht for any questions via email: trauerni@hawaii.edu.

Description: The data provide the annual area burned per year as recorded and compiled from available records across the main Hawaiian Islands. For years of overlapping records (1968 through 1998 between Schmitt 1977, HWMO, and DOFAW) the maximum annual area is reported from the available sources. These data were first reported and analyzed in Trauernicht et al. (2015) which remains the recommended citation (see below). Note that for 14 of the available records between 1919 and 1952, Territorial reports were issued biennially and therefore total area burned was divided in half over the two years span of each reporting period. For 1999 through 2004, perimeters of large fires (>20 hectares) compiled and mapped from various sources by Dr. Clay Trauernicht at the University of Hawaii at Manoa were used to calculate total area burned. From 2005 onwards, a combination of large fire perimeters and records of all fires from state and county were used to derive annual area burned. Both data sets are available at www.PacificFireExchange.org/regions/hawaii.

Citation: Trauernicht, C., Pickett, E., Giardina, C. P., Litton, C. M., Cordell, S., & Beavers, A. (2015). The Contemporary Scale and Context of Wildfire in Hawai 'i1. *Pacific Science*, 69(4), 427-444.

References:

Hawaii Department of Land and Natural Resources Annual Reports:
<https://dlnr.hawaii.gov/reports/>

Schmitt, R. C. 1977. Historical statistics of Hawaii. University of Hawai'i Press, Honolulu.