

CALINVASIVES: A Revolutionary Tool to Monitor Invasive Threats¹

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Abstract

CALinvasives is a web-based relational database and content management system (CMS) cataloging the statewide distribution of invasive pathogens and pests and the plant hosts they impact. The database has been developed as a collaboration between the Forest Pathology and Mycology Laboratory at UC Berkeley and Calflora. CALinvasives will combine information on the dispersal potential of pathogen and pest threats, the current location of each, the hosts threatened, and their distribution, making it possible to assess the risk posed by each existing and emerging threat to California's native habitats. The database will be generated with the cooperation and assistance of Calflora, and will be interconnected with their existing database. Plant species listed in Calflora will include cross-links to the CALinvasives database with a description of the threat, photographs, and its range overlapping the host. From the pathogen/pest page, the user will be able to access the interactive map with records of pathogen by host, and links to pest/pathogen the interactive map with records of pathogen by host, and links to pest/pathogen mitigation and treatment resources. Calinvasives will provide information on the geographical distribution of emergent pathogens and pests in real time, linking the user to existing resources to identify likely management approaches and possible mitigation strategies.

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