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Map Showing the Status of Landslide Inventory and Susceptibility Mapping in California

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by
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INTRODUCTION

Landslide maps can be an effective means of conveying information about regional landslide processes in a form that is easily understood. The maps can show where landslide processes have operated in the past, where they occur now, and the probability that an area will fail by landsliding in the future; can describe the kind of landslide movement, such as fall, slide, flow, topple or lateral spread; can provide information on the kind of materials involved, such as bedrock, debris, or earth; can indicate the rate and recurrence of landslide movement; and can provide information needed to judge the impact of a landslide on any person or structure, such as the anticipated direction of movement and the probable run-out distance.

In California, several different Federal and State agencies, Universities, and private consulting firms produce landslide maps. Most of these maps are not published, and thus the extent to which landslide processes have been identified and mapped in various parts of the State is unknown. The purpose of this map, therefore, is to call attention to the various agencies that produce landslide maps, indicate which areas of the State have been mapped, and guide users of this map to places where information about regional landslide processes might be stored. Inasmuch as areas smaller than one-half a 7.5 quadrangle are not shown, this map should be used in conjunction with the bibliography prepared by Alger and Brabb (1985) for more complete references to maps and reports on landslide processes in California. In addition, thousands of unpublished reports containing information about landslides are located in the files of public road agencies like CALTRANS and

county road departments, in planning and public works departments of many city and county governments, and in the files of private consulting firms. Most of these reports are difficult to locate or, especially in the case of private consulting firms, are not generally available.

An extensive program of landslide mapping in California is underway by the California Division of Mines and Geology (CDMG) in response to Chapter 997 of California Assembly Bill 101 (approved by the Governor September 21, 1983). In addition, C. W. Davenport of the CDMG is preparing a series of page-size indices showing the status of all landslide mapping in the northern part of California.

Landslide inventory maps show areas that appear to have failed by landslide processes. These maps are commonly prepared by interpreting aerial photographs, with a minimum of field checking. Landslide susceptibility maps distinguish areas that have different potentials for landsliding. Landslide inventory maps record what went on in the past or is happening now; landslide susceptibility maps attempt to predict where landsliding will occur in the future.

PREPARATION OF MAP

This map showing the status of landslide inventory and susceptibility mapping was prepared largely by analysis of the maps and reports listed in a draft of the bibliography by Alger and Brabb (1985) and by visits to many of the field offices of the U.S. Forest Service to locate unpublished mapping. A preliminary copy of this map was circulated to all field offices of the U.S. Forest Service in California, to the Los Angeles and San Francisco (now Pleasant Hill) offices of the California Division of Mines and Geology, to several consulting firms, and to a few colleagues in the U.S. Geological Survey. Many additional maps were found in this review.

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