

Debris Flows Triggered by the El Niño Rainstorm of February 2-3, 1998, Walperet Ridge and Vicinity, Alameda County, California

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Appendix—Data on individual debris flows

Identification numbers and brief descriptions are from Atkins. These are gaps in the sequence of identification numbers, but the total number of debris flows is 531.

Geologic numbers are from a digital vector (Wentworth, 1997) of Ellen and Wentworth (1996) and geologic units are from (Wentworth, 1997). A negative number in the geologic unit column indicates that the contributing area extends beyond the study area boundary. Total numbers are from SHALSTAD (Montgomery and DeWitt, 1998).

See map at left for debris flow identification numbers and for further explanation of column headings.

Table with 14 columns: Identification number, Geologic material, Geologic unit, Total area (km²), Contributing upslope drainage area (km²), Horizontal travel distance (m), and 11 other columns for debris flow characteristics.

Table 1. Data on debris-flow concentrations.

Table with 4 columns: Debris-flow location, Debris-flow area, Percent of total slope area, Cumulative grain area with debris, and Cumulative percent of total debris.

Table 2. Descriptions of geologic materials in the study area.

Table with 5 columns: Geologic material unit number, Geologic unit name, Geologic unit age and summary, Properties of soil matrix, and Properties of soil matrix.

Table 3. Summary of apparent relative susceptibility to debris flows.

Table with 12 columns: Geologic unit, Apparent susceptibility, Soil matrix, Shallow bedrock, Soil matrix, and 8 other columns for debris flow susceptibility factors.

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Table 6. Rain gauge and rainfall data on ALERT gauges.

Table with 14 columns: Gauge name, Elevation, Latitude, Longitude, Approximate time, Cumulative rainfall, Normalized rainfall, and 10 other columns for rainfall data.

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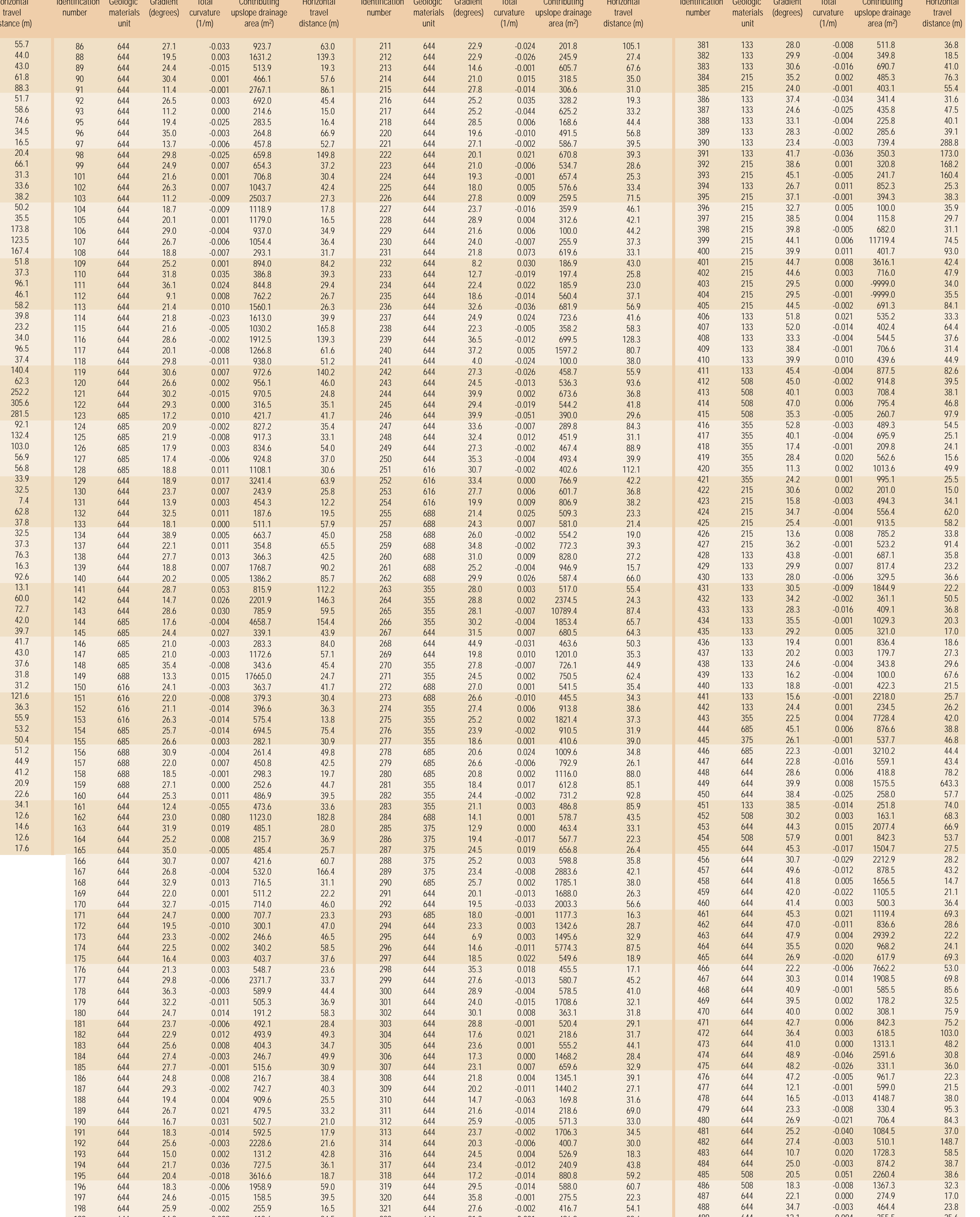


Table 9. Quantitative rainfall data.

Table with 4 columns: Location, Rainfall measured by rain gauge, Difference between rain gauge and page, and Difference between rain gauge and page.

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