An Explanatory Text to Accompany the Fault Activity Map of California

Scale 1:750,000
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Introduction

The 2010 edition of the FAULT ACTIVITY MAP OF CALIFORNIA was prepared in recognition of the 150th Anniversary of the California Geological Survey (CGS). It replaces the FAULT ACTIVITY MAP OF CALIFORNIA AND ADJACENT AREAS (Jennings, 1994) and is more complete with the addition of recent data. The map shows the locations of known faults that can be portrayed at 1:750,000 scale and indicates the latest age when displacements took place, according to available data. The displacements may have been associated with earthquakes or may have been the result of gradual creep along the fault surface. Faults exhibiting creep or triggered creep are identified on the map with appropriate symbols. The faults are color-coded and designated into one of five categories: historic (red), Holocene (orange), late Quaternary (green), undivided Quaternary (purple), and pre-Quaternary (black).

Fault names are indicated on the map where space permits, including newly named faults. Some of the faults on the 1994 map were deleted or revised to reflect new, more detailed studies. The ages of faults on the 1994 map have been revised where improved dating methods were available. Lastly, occurrences of surface faulting caused by earthquakes since 1994 have been added.

In order to effectively catalog the information, the faults have generally retained the reference numbers originally assigned in 1994. These numbers are referenced in Appendix A and Appendix B accompanying this map and report. Each entry in these appendices includes: the name of the fault, its most recent age of activity, and the sources for fault location and recency. If the fault has been encompassed in an Official Earthquake Fault Zone, the 7.5 minute quadrangle maps prepared and issued by CGS are listed.

The 1994 version of the Fault Activity Map of California showed selected faults that exhibited Quaternary displacement in Oregon, Nevada, and Baja California. We decided to limit the data to within California’s boundaries for the 2010 version of the Fault Activity Map. Consult the National Quaternary Fault and Fold Database for fault trace data for states adjacent to California (http://earthquake.usgs.gov/hazards/qfaults/). The aligned seismicity and locations of Quaternary volcanoes are not shown on the 2010 Fault Activity Map. However, the location of Quaternary volcanoes can be found on the 2010 version of the Geologic Map of California (Jennings and others, 2010).

Digital Compilation

A significant difference from the 1994 version of the Fault Activity Map of California is the method of fault compilation. Almost all of the Quaternary faults shown in the 2010 version of the Fault Activity Map have been digitally compiled from original-scale source maps (1:12,000 to 1:250,000) used for the 1975 and 1994 maps, as well as more recent mapping when available. This compilation method insures that locations of these faults are more accurate than those depicted on previous editions of the Fault Activity Map. Also, the line width for faults depicted on the 2010 Fault Activity Map has been reduced from 0.35 mm to 0.2 mm (260 m to 150 m width at a scale of 1:750,000). This was done in order to more accurately portray the location and complexity of faults showing evidence of displacement during Quaternary time. The Pre-Quaternary faults remain the same as in the 1994 version.

Base Materials

The base map for the new Fault Activity Map of California consists of a shaded relief image and a combination of cultural, political, transportation, geographic, and hydrologic features. The onshore shaded relief image was derived from 90-meter Digital Elevation Models (DEM) available from the National Elevation Data Set (http://ned.usgs.gov). The offshore bathymetric shaded relief image was derived from DEMs available from the California Department of Fish and Game (http://dfg.ca.gov/biogeodata/gis/mr_bathy.asp). The cultural, political, transportation, geographic and hydrologic features depicted in the base map were largely derived from data obtained from the Cal-Atlas Geospatial Clearinghouse (http://atlas.ca.gov).
Select geographic features throughout the state and in the offshore region were digitized from USGS 1:500,000-scale topographic maps and include a selection of peaks in the Sierra Nevada named after historic survey members. Projection of the base map layers is Teale Albers, 1983 North American Datum.

FAULTS

Introduction

The Fault Activity Map of California shows where faults have been recognized and mapped. Many of the faults are assigned numbers and are keyed to descriptions in Appendix A and Appendix B. In addition, Table 1 describes surface fault rupture associated with earthquakes that are known to have occurred in California. If a Quaternary fault has no number, it was taken from the initial Fault Map of California (Jennings, 1975). Refer to Bulletin 201 (Jennings, 1985) for the source on which the fault and its age were based.

As with the 1994 Fault Map of California, a conservative approach was followed for this new edition - we felt it is better to show those faults where evidence is questionable rather than to ignore them. Hence, some questionable faults may have been included as long as they are based on some reasonable data. Omission of such information may lead decision-makers for building critical structures to assume no fault hazard exists. The prudent course should be to include questionable data to suggest where future investigations are needed before any final design and construction takes place.

Although it is not possible to tell if a fault will be reactivated, we assume that if a fault has been active for millions of years and has been active in historic or recent geologic (Quaternary) time, it is very likely to become active again. This assumption is borne out by studies of historically active faults in California and elsewhere.

Fault Activity Definitions

The terms "active," "potentially active," "capable," and "inactive," have been interpreted differently by geologists, seismologists, and agencies, depending on the purpose on hand. To avoid confusion, this Fault Activity Map does not use these terms. Instead, faults are classified according to the age of latest displacement and, hence, are as factual as the geologic data upon which the fault is based. This procedure continues the practice used for the 1994 Fault Activity Map of California. Because a common understanding of terms is essential, the following excerpts from BULLETIN 201, An Explanatory Text to Accompany the

1:750,000 Scale Fault and Geologic Maps of California (Jennings, 1985) are restated here.

"In defining the term "fault," geologists have no significant disagreement; the various definitions differ only in the elaboration. All agree in defining a fault as a tectonic fracture or break in the earth's crust along which displacement (horizontal, vertical, or diagonal movement) has taken place. In elaborating, some definitions further specify: (1) that the fracture or break may be either a discrete surface or a wide zone of fractures; (2) that the fault may be a result of repeated displacements which took place suddenly or very slowly as a result of creep slippage; and (3) that the cumulative displacement may be measurable from millimeters to kilometers.

All definitions of "active faults" in common use imply future movement commonly constituting a geologic hazard. In recent years, specialized definitions vary according to the type of structure to be built in the vicinity of a fault and the degree of risk acceptable for a particular type of structure. The most conservative definition is that of the U.S. Nuclear Regulatory Commission (NRC). In defining fault activity for its special uses, the NRC sought to avoid the misunderstanding that might arise from its use of the term "active" by using the term "capable" in its place. A "capable fault" is defined as a fault that exhibits one or more of the following characteristics:

(1) movement at or near the ground surface at least once within the past 35,000 years, or movement of a recurring nature within the past 500,000 years; (2) macro seismicity instrumentally determined with records of sufficient precision to demonstrate a direct relationship with the fault; (3) a structural relation to a fault deemed "capable" such that movement on one can be reasonably expected to be accompanied by movement on the other.

In California, special definitions for active faults were devised to implement the Alquist-Priolo Earthquake Fault Zoning Act of 1972, which regulates development and construction in order to avoid the hazard of surface fault rupture. The State Mining and Geology Board established Policies and Criteria in accordance with the Act. They defined an "active fault" as one which has "had surface displacement within Holocene time (about the last 11,000 years). A "potentially active fault" was considered to be any fault that "showed evidence of surface displacement during Quaternary time (last 1.6 million years). Because of the large number of potentially active
<table>
<thead>
<tr>
<th>Year</th>
<th>Fault (location)</th>
<th>Magnitude</th>
<th>Surface Rupture Length (kilometers)</th>
<th>Maximum Displacement and Type of Slip (centimeters)</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>1812</td>
<td>San Andreas (Wrightwood)</td>
<td>7±</td>
<td>25+</td>
<td>No data</td>
<td>Jacoby and others, 1988</td>
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<td>1838</td>
<td>San Andreas (San Francisco-Mission Santa Clara?)</td>
<td>7</td>
<td>60+</td>
<td>No data</td>
<td>Louderback, 1947; Toppozada and Borchardt, 1998; Bakun, 1999</td>
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<td>1861</td>
<td>Calaveras (Dublin)</td>
<td>5.3</td>
<td>13±</td>
<td>No data</td>
<td>Radbruch, 1968 (p. 52-53); Toppozada and others, 1981 (p. 148)</td>
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<tr>
<td>1868</td>
<td>Hayward (Oakland to Warm Springs)</td>
<td>6.8</td>
<td>48±</td>
<td>RL 90 V 30</td>
<td>Lawson and others, 1908; Bonilla, 1970; Toppozada and others, 1981 (p. 152)</td>
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<tr>
<td>1868</td>
<td>San Andreas (Dos Palmos)</td>
<td>No data</td>
<td>&quot;long fissure&quot;</td>
<td>No data</td>
<td>Townley and Allen, 1939 (p. 500)</td>
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<td>1872</td>
<td>Owens Valley (Big Pine to Olancha)</td>
<td>7.8</td>
<td>100+</td>
<td>RL 600 Some LL V 700</td>
<td>Hobbs, 1910; Knopf, 1918; Bonilla, 1970; Beanland and Clark, 1994</td>
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<td>1875</td>
<td>Surface rupture previously reported at Clio</td>
<td>6.0?</td>
<td>No data</td>
<td>No data</td>
<td>Bonilla, 1970; Toppozada and others, 1981 (p. 156)</td>
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<td>1890</td>
<td>San Andreas (Chittenden)</td>
<td>6.3</td>
<td>8±</td>
<td>30± Lateral</td>
<td>Holden, 1898 (p. 150); Lawson and others, 1908 (p. 110); Toppozada and others, 1981 (p. 162)</td>
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<td>1892</td>
<td>Unnamed (Allendale, Sacramento Valley)</td>
<td>6.4</td>
<td>1.6</td>
<td>No data</td>
<td>Toppozada and others, 1981 (p. 164)</td>
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<td>1899</td>
<td>San Jacinto</td>
<td>6.6</td>
<td>3.2±</td>
<td>No data</td>
<td>Daneš, 1907; Bonilla, 1970; Toppozada and others, 1981 (p. 169)</td>
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<tr>
<td>1901</td>
<td>San Andreas (Parkfield)</td>
<td>6+</td>
<td>&quot;several miles&quot;</td>
<td>V 30</td>
<td>Lawson and others, 1908 (p.40); Townley and Allen, 1939; Brown and others, 1967 (p. 10)</td>
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<td>1906</td>
<td>San Andreas (Shelter Cove to San Juan Bautista)</td>
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<td>432</td>
<td>RL 600 V 90</td>
<td>Lawson and others, 1908; Bonilla, 1970</td>
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<td>1916</td>
<td>San Andreas (Gorman area)</td>
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<td>O data</td>
<td>Branner, 1917; Bonilla, 1959 (p. 134)</td>
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<td>1922</td>
<td>San Andreas (Cholame area)</td>
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<td>0.4±</td>
<td>No data</td>
<td>Townley and Allen, 1939; Richter, 1958 (p. 533)</td>
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<td>1934</td>
<td>San Andreas (Parkfield area)</td>
<td>6.3</td>
<td>3</td>
<td>No data</td>
<td>Byerly and Wilson, 1935 (p. 233); Richter, 1958 (p. 534)</td>
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<td>1940</td>
<td>Imperial (Calif.-Mex.)</td>
<td>6.9</td>
<td>64+</td>
<td>RL 580 V 120</td>
<td>Ulrich, 1941; Bonilla, 1970; Hileman and others, 1973</td>
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<td>1947</td>
<td>Manix (Mojave Desert)</td>
<td>6.2</td>
<td>1.6</td>
<td>LL 7.6</td>
<td>Richter, 1958; Bonilla, 1970; Hileman and others, 1973</td>
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<td>1950</td>
<td>Fort Sage (Honey Lake Valley)</td>
<td>5.6</td>
<td>8.9</td>
<td>V 20</td>
<td>Gianella, 1957; Bonilla, 1970</td>
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<tr>
<td>1951</td>
<td>Superstition Hills</td>
<td>5.6</td>
<td>3.2±</td>
<td>RL slight</td>
<td>Allen and others, 1965; Bonilla, 1970</td>
</tr>
<tr>
<td>Year</td>
<td>Fault (location)</td>
<td>Magnitude</td>
<td>Surface Rupture Length (kilometers)</td>
<td>Maximum Displacement and Type of Slip (centimeters)</td>
<td>References</td>
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<tr>
<td>1952</td>
<td>White Wolf (Arvin-Tehachapi)</td>
<td>7.4 and 6.4</td>
<td>57</td>
<td>LL 76 V 122</td>
<td>Buwalda and St. Amand, 1955; Bonilla, 1970; Hileman and others, 1973</td>
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<td>1966</td>
<td>Imperial</td>
<td>3.6</td>
<td>9.7</td>
<td>RL 1.5</td>
<td>Brune and Allen, 1967b; Bonilla, 1970</td>
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<td>1966</td>
<td>San Andreas (Parkfield)</td>
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<td>37</td>
<td>RL 17.8° V 5°</td>
<td>Brown and others, 1967; Bonilla, 1970</td>
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<td>1966</td>
<td>Unnamed (Truckee)</td>
<td>5.9</td>
<td>16.1</td>
<td>No data</td>
<td>Carter, 1966; Kachadoorian and others, 1967</td>
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<td>1968</td>
<td>Unnamed (La Habra)</td>
<td>?</td>
<td>0.32</td>
<td>LL 5 V 2.5±</td>
<td>Yerkes, 1972 (p. 31); Lamar, 1972</td>
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<td>1968</td>
<td>Coyote Creek (Borrego Mountain)</td>
<td>6.6</td>
<td>31</td>
<td>RL 38+</td>
<td>Allen and others, 1968; Hileman and others, 1973; Clark, 1972a</td>
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<td>1971</td>
<td>San Fernando</td>
<td>6.6</td>
<td>15.3</td>
<td>LL 100 V 100</td>
<td>U.S. Geological Survey, 1971 (p.55); Hileman and others, 1973; Allen and others, 1975 (p. 275)</td>
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<td>1975</td>
<td>Galway Lake</td>
<td>5.2</td>
<td>6.8</td>
<td>RL 1.5</td>
<td>Hill and Beeby, 1977; Bryant and Hart, 2007; Clark, 1972a</td>
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<tr>
<td>1975</td>
<td>Cleveland Hill (Oroville Dam area)</td>
<td>5.7</td>
<td>5.7</td>
<td>RL 4 V 5</td>
<td>Hart and Rapp, 1975</td>
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<td>1975</td>
<td>Brawley</td>
<td>4.7</td>
<td>10.4</td>
<td>V20</td>
<td>Sharp, 1976; Bryant and Hart, 2007</td>
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<tr>
<td>1978</td>
<td>Stephens Pass (E. of Mt. Shasta)</td>
<td>4.6</td>
<td>2+</td>
<td>V 30</td>
<td>Bennett and others, 1979; Bryant and Hart, 2007</td>
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<td>1979</td>
<td>Homestead Valley</td>
<td>5.2</td>
<td>3.25</td>
<td>RL 10 V 4</td>
<td>Hill and others, 1980</td>
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<td>1979</td>
<td>Johnson Valley</td>
<td>5.2</td>
<td>1.45</td>
<td>RL 1 V 1</td>
<td>Hill and others, 1980</td>
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<td>1979</td>
<td>Calaveras (Coyote Lake area)</td>
<td>5.8</td>
<td>39?</td>
<td>RL 0.5</td>
<td>Urhammer, 1980; Lee and others, 1979; Armstrong, 1979</td>
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<td>1979</td>
<td>Imperial Brawley Rico (Imperial County)</td>
<td>6.6</td>
<td>30 13 1</td>
<td>RL 55 V 15 V10</td>
<td>U.S. Geological Survey, 1982</td>
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<td>1980</td>
<td>Greenville (Livermore Valley area)</td>
<td>5.8</td>
<td>6.5</td>
<td>RL 3</td>
<td>Hart, 1981b</td>
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<tr>
<td>1980</td>
<td>Hilton Creek (Mammoth Lakes area)</td>
<td>6.0 - 6.5</td>
<td>20</td>
<td>V 30</td>
<td>Taylor and Bryant, 1980; Bryant and Hart, 2007</td>
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<td>1981</td>
<td>&quot;Lompoc Quarry&quot;¹²</td>
<td>2.5</td>
<td>0.6</td>
<td>V 25</td>
<td>U.S. Geological Survey, 1984</td>
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<td>1982</td>
<td>Little Lake</td>
<td>5.2</td>
<td>10</td>
<td>RL slight V slight</td>
<td>Roquemore and Zellmer, 1983; Bryant and Hart, 2007</td>
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<td>1983</td>
<td>&quot;Coalinga Nose&quot;</td>
<td>6.7</td>
<td>0.005</td>
<td>V 5</td>
<td>Rymer and Ellsworth, 1990; Bryant and Hart, 2007</td>
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<td>1983</td>
<td>Nunez (Coaling area)</td>
<td>5.2-5.9</td>
<td>3.3</td>
<td>V 60</td>
<td>Rymer and Ellsworth, 1990; Hart and McJunkin, 1983</td>
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<td>1984</td>
<td>Calaveras (Morgan Hill area)</td>
<td>6.1</td>
<td>1.2</td>
<td>RL 20?</td>
<td>Hart, 1984c</td>
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<td>1986</td>
<td>Banning</td>
<td>6.1</td>
<td>9</td>
<td>RL 7</td>
<td>Sharp and others, 1986b</td>
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<td>1986</td>
<td>White Mountains (Chalfant Valley area)</td>
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<td>13</td>
<td>RL 11</td>
<td>Kahle and others, 1986; Lienkaemper and others, 1987</td>
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<td>Year</td>
<td>Fault (location)</td>
<td>Magnitude(^1)</td>
<td>Surface Rupture Length (kilometers)</td>
<td>Maximum Displacement and Type of Slip(^2)</td>
<td>References(^3)</td>
</tr>
<tr>
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<tr>
<td>1987</td>
<td>Elmore Ranch</td>
<td>6.2</td>
<td>12</td>
<td>LL 12</td>
<td>Hanks and Allen, 1989&lt;br&gt;Kahle and others, 1988</td>
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<td>1987</td>
<td>Superstition Hills</td>
<td>6.6</td>
<td>28</td>
<td>RL 80</td>
<td>Hanks and Allen, 1989&lt;br&gt;Kahle and others, 1988</td>
</tr>
<tr>
<td>1989</td>
<td>San Andreas (Loma Prieta area)</td>
<td>6.9</td>
<td>1(^4)</td>
<td>RL 2.5</td>
<td>U.S. Geological Survey, 1989</td>
</tr>
<tr>
<td>1994</td>
<td>Various ground deformations, but not on causative fault. Earthquake hypocenter on blind fault (Northridge)</td>
<td>6.7</td>
<td>-</td>
<td>-</td>
<td>Rymer and others, 2001</td>
</tr>
<tr>
<td>1995</td>
<td>Airport Lake (Kern and Inyo counties)</td>
<td>5.4-5.8</td>
<td>2.5</td>
<td>1</td>
<td>Treiman, 1995</td>
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<tr>
<td>1999</td>
<td>Lavic Lake, Bullion, Mesquite Lake (Hector Mine area)</td>
<td>7.1</td>
<td>45</td>
<td>RL 525</td>
<td>Treiman and others, 2002</td>
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<td>2004</td>
<td>San Andreas (Parkfield)</td>
<td>6.0</td>
<td>32</td>
<td>RL 15(^{13})&lt;br&gt;V 3(^{15})</td>
<td>Rymer and others, 2006</td>
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</tbody>
</table>

\(^1\)Earthquake magnitudes greater than 6 prior to 1985 are mostly from Toppozada and others, 1986. Magnitudes listed after 1985 are either surface wave magnitude (Ms) or moment magnitude (Mw). The scale is logarithmic so that M8 is 10 times that of M7 and 100 times that of M6. In energy terms a M8 earthquake radiates 30 times that of M7 and 900 times the energy of M6.

\(^2\)RL=right lateral, LL=left lateral; V=vertical.

\(^3\)Complete references listed in Appendix C.

\(^4\)Four large earthquakes: M8 and 6.5, and a few days later M6.1 and 6.6 (Toppozada and others, 1986).

\(^5\)The 1875 earthquake was thought to have occurred in Mohawk Valley as shown on the Fault Map of California, 1975. Turner (1897), 22 years after the event, thought he could locate ground ruptures for this event described by local residents near Clio. New data and isoseismal maps (Toppozada and others, 1981) indicate the earthquake was centered to the east, probably on the Honey Lake Fault.

\(^6\)Two early newspaper accounts (Toppozada and others, 1981) describe a fissure about 1.6 Kilometers (1 Mile) long near Allendale, 8 kilometers (5 miles) west of Dixon (not plotted on Fault Activity Map of California for lack of data).

\(^7\)Questionable fault rupture — may have been landslides (Allen and others, 1965; Sharp, 1972). Not plotted on Fault Activity Map of California.

\(^8\)Questionable fault rupture — cracking may have been caused by shaking only.

\(^9\)Includes tectonic creep that occurred within 50 days following main shock.

\(^10\)Surface fault rupture not conclusive.

\(^11\)Some uncertainty regarding earthquake associated with 1968 ground rupture near La Habra (Yerkes, 1972); probably related to oil and brine withdrawal.

\(^12\)Lompoc quarry "fault" triggered by unloading of mined-out diatomite.

\(^13\)Questionable faulting (may be landsliding).

\(^14\)Surface rupture possibly triggered slip.

\(^15\)Includes tectonic creep that accumulated for several months following main shock.
faults in California, the State Geologist adopted additional definitions and criteria in an effort to limit zoning to only those faults with a relatively "high" potential for surface rupture. Thus, the term "sufficiently active" was defined as a fault for which there was evidence of Holocene surface displacement. This term was used in conjunction with the term "well-defined," which relates to the ability to locate a Holocene fault as a surface or near-surface feature (Bryant and Hart, 2007).

Another special definition is used by the U.S. Bureau of Reclamation in the design of dams. According to this agency, any fault exhibiting relative displacement within the past 100,000 years is an active fault.

Table 2 is a summary of the fault definitions in common use and the factors on which they are based. Each of these definitions is concerned with future fault activity and this is based on the recent history of the fault. Depending on the type of structure being planned and the acceptable risk to be taken, the definition of an active fault may be based on the last 11,000 to 100,000 years or on repeated movements during the past 500,000 years.

Of recent concern is the possibility that faults, even geologically ancient ones (that is, pre-Quaternary), can be reactivated by the influences of man. For example, there are now several authenticated cases showing that the filling of a reservoir can induce fault activity and earthquakes of significant size. In this way, what may have been considered "inactive faults" can become "active faults."

The term "active fault" is best avoided altogether when seismic risk is not a consideration. For simply describing the characteristics of faults, such terms as "historic

<table>
<thead>
<tr>
<th>Design Structure</th>
<th>Fault Term</th>
<th>Time of Last Displacement on Fault</th>
<th>Other Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRC (U.S. Nuclear Regulatory Comm.), 1978</td>
<td>Nuclear power plants</td>
<td>Capable</td>
<td>1) at least once within past 35,000 yrs. or 2) two or more times within past 500,000 yrs.</td>
</tr>
<tr>
<td>California Geological Survey (Bryant and Hart, 2007)</td>
<td>Structures for human occupancy</td>
<td>Active</td>
<td>Within Holocene (11,000 yrs.).</td>
</tr>
<tr>
<td></td>
<td>Potentially Active</td>
<td>During Quaternary (last 1.6 million years)</td>
<td></td>
</tr>
<tr>
<td>USBR (U.S. Bureau Reclamation), 1976</td>
<td>Dams</td>
<td>Active</td>
<td>Within past 100,000 yrs</td>
</tr>
<tr>
<td>Grading Codes Board (Assoc. Eng. Geol.), 1973</td>
<td>Not specified</td>
<td>Active</td>
<td>Historic</td>
</tr>
<tr>
<td>Potentially Active</td>
<td>No Historic evidence but strong evidence of geologically recent activity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Potential</td>
<td>Holocene</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low Potential</td>
<td>Pleistocene (less than 1 Myrs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Louderback, 1950</td>
<td>Not specified</td>
<td>Active</td>
<td>Historic or Recent</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Related earthquake epicenters.</td>
</tr>
</tbody>
</table>
fault," "Holocene fault," "Quaternary fault, "pre-Quaternary fault," or "seismically active fault" are preferable. With these designations, a project geologist, after confirming the designation of a fault, can then go on and make an independent determination of its activity relative to the type of structure to be built and the acceptable risk.”

Fault Age

The fault map depicts what is known about the recency of displacement along faults. However, future studies may find additional faults, require replotting of faults, or, in some cases, change the age classification shown here. The age classifications are based on geologic evidence to determine the youngest faulted unit and the oldest unfaulted unit along each fault or fault section. If Quaternary displacement is indicated, the fault is classified into one of three categories within Quaternary time (Holocene, late Quaternary, or Quaternary undifferentiated). Faults with reported surface rupture during historic time are further classified as historically active.

The reliability of the age classifications on this map is dependent upon several factors. First, and perhaps foremost, fault-related geomorphic features may have been destroyed by natural or human activities. Geomorphic features, such as scarps, troughs, offset drainage channels, triangular faceted spurs and sag ponds, are geologically temporary. They may be easily destroyed by erosion or covered by vegetation and their preservation is strongly affected by climate. Likewise, fault features may be modified or destroyed by works of humans, especially in urban areas. Second, geologists may have different interpretations of faults after examining incomplete geologic evidence for recency of faulting. Third, the ages of the rock units used to classify the faults may not be accurately known, or in some cases, Quaternary rocks may be absent. Fourth, some of the data used to classify faults on this map were based on studies not done directly to determine the recency of fault activity.

The color code on the Fault Activity Map of California reflects the latest age at which fault rupture has occurred and not the age the fault originated. Thus, a fault showing Holocene or Quaternary displacement may have originated several million years before and may have had several previous displacements.

The age of some faults listed in Appendix A, referenced by Clark and others (1984), is given in years. These are generally minimum and maximum ages of offset features. These features include a wide range of geologic, biologic and cultural features that allow fault displacements to be measured or estimated and dated. Among the dating methods used were: radiometric dating of volcanic rocks; soil profile development; soil or geomorphology correlations; historic records; dendrochronology (tree rings); amino acid and uranium series on mollusks; carbon 14 on charcoal and organic sediments; paleontology; and sea-level curves.

Blind Thrust Faults

Blind thrust faults typically are low angle structures in areas of active folding, such as the Transverse Ranges of southern California. The upper extent of the fault plane may terminate several kilometers below the ground surface and the surface expression is often delineated by young anticlines. These faults can be seismogenic (Stein and Yeats, 1989) and have produced strong earthquakes in California, such as the 1983 Mw 6.4 Coalinga and 1994 Mw 6.7 Northridge earthquakes. Although significant work has been done on identifying blind thrust faults and associated folds, especially in the southern California area (Plesch and others, 2007), we have decided to continue the practice of showing faults that displace the surface, as well as near surface concealed faults, on the 2010 Fault Activity Map of California. The National Seismic Hazard Maps incorporate blind thrust fault models in California, specifically in the southern Transverse Ranges/northern Peninsula Ranges boundary, Santa Barbara Channel, and along the western margin of the Great Valley (WGCEP, 2008). Consult this reference for information on location and characterization of blind thrust faults.
REFERENCES CITED


Jennings, C.W., 1975, Fault map of California with location of volcanoes, thermal springs and thermal wells: California Division of Mines and Geology, Geologic Data Map No. 1, map scale 1:750,000.

Jennings, C.W., 1985, An explanatory text to accompany the 1:750,000 scale fault and geologic maps of California: California Division of Mines and Geology, Bulletin 201, 197 p., 2 plates.

Jennings, C.W., 1994, Fault activity map of California and adjacent areas with locations and ages of recent volcanic eruptions: California Department of Conservation, Division of Mines and Geology Data Map Series No. 6, 92 p., 2 plates, map scale 1:750,000.


APPENDIX A

CLASSIFIED FAULTS

(For complete references see Appendix C)

Note: The names following the abbreviation EFZ (Earthquake Fault Zone) are the quadrangles issued by the State showing the boundaries of officially zoned faults.

1. MAHOGANY MOUNTAIN FAULT ZONE
   Holocene; Quaternary
   Bryant, W A, 1990a
   Hart and others, 1991
   EFZ: Dorris, Red Rock Lakes

2. IKES MOUNTAIN FAULT AND UNNAMED FAULTS OF BUTTE VALLEY
   Late Quaternary; Quaternary
   Williams, H., 1949 (p. 54, Plate 1)
   Wood, P. R., 1960
   Bryant, W A, 1990a
   Hart and others, 1991

2A. MEISS LAKE FAULT
    Late Quaternary; Holocene
    Bryant, W A, 1990a
    Hart and others, 1991

3. MOUNT HEBRON FAULT ZONE
   Late Quaternary?
   Bryant, W.A., 1990a
   Wood, P.R., 1960

4. CEDAR MOUNTAIN FAULT ZONE
   Late Quaternary; Holocene
   Bryant, W.A., 1990a
   Hart and others, 1991

5. GILLEM FAULT
   Late Quaternary; Quaternary
   Donnelly-Nolan and Champion, 1987
   Donnelly-Nolan, J.M., 1989
   Bryant, W.A., 1990e
   Hart and others, 1991

6. BIG CRACK FAULT
   Late Quaternary
   Donnelly-Nolan and Champion, 1987
   Donnelly-Nolan, J.M., 1989
   Bryant, W.A., 1990e
   Hart and others, 1991

7. SURPRISE VALLEY FAULT
   Holocene; Late Quaternary
   Clark and others, 1984 (5,600-13,000 yrs.)
   Bryant, W.A., 1990b
   Hart and others, 1991
   Hedel, C.W., 1984
   EFZ: Fort Bidwell, Lake City, Cedarville, Warren Peak, Eagle Peak, Eagleville, Snake Lake

7A. GOOSE LAKE FAULT
    Late Quaternary
    Bryant, W.A., 1990d
    Hart and others, 1991
    Lydon, P.A., 1969

7B. DAVIS CREEK FAULT
    Late Quaternary
    CDWR, 1963
    Lydon, P.A., 1969
    Bryant, W.A., 1990d
    Hart and others, 1991

7C. FITZHUGH CREEK FAULT
    Quaternary
    CDWR, 1963
    Bryant, W.A., 1990d
    Hart and others, 1991

7D. JESS VALLEY FAULT
    Quaternary
    CDWR, 1963
    Bryant, W.A., 1990d
    Hart and others, 1991

8. UNNAMED FAULT
   Late Quaternary
   Donnelly-Nolan, J.M., 1989
   Muffler and others, 1989 (p. 200)

9. UNNAMED FAULTS
   Holocene
   Donnelly-Nolan, J.M., 1989

10. UNNAMED FAULTS
    Quaternary
    Donnelly-Nolan, J.M., 1989
    Hart and others, 1991

11. EAST CEDAR MOUNTAIN FAULT ZONE (SOUTHERN PART)
    Holocene
    Bryant, W.A., 1990a
    Donnelly-Nolan, J.M., 1989
    Hart and others, 1991
    EFZ: Bray, Sharp Mountain, Tennant

12. YELLOW BUTTE FAULT
    Quaternary
    Mack, S., 1960
    Williams, H., 1949 (p. 53)
13 LOST MAN FAULT (OFFSHORE)
Quaternary
Clarke and Field, 1989
Clarke, S.H., Jr., 1992 (age, p. 215)
Kelsey and Carver, 1988 (age, p. 4812)

13A UNNAMED FAULT SOUTH OF CRESCENT CITY (OFFSHORE)
Quaternary?
Clarke and Field, 1989
Clarke, S.H., Jr., 1993

14 GROGAN FAULT (OFFSHORE)
Quaternary
Clarke and Field, 1989
Clarke, S.H., Jr., 1992 (age, p. 215)
Kelsey and Carver, 1988 (age, p. 4812)

15 SEAWARD EDGE OF CASCADIA SUBDUCTION ZONE (OFFSHORE)
Holocene
Clarke and Field, 1989
Clarke, S.H., Jr., 1992 (p. 199, Fig. 2, p. 220)
Carver, GA, 1993
Kelsey and others, 2005
Nelson and others, 2006

16 BALD MOUNTAIN-BIG LAGOON FAULT ZONE (OFFSHORE)
Late Quaternary
Clarke and Field, 1989
Clarke, S.H., Jr., 1992 (age, p. 215)
Kelsey and Carver, 1988 (age, p. 4812)

17 LOST MAN FAULT
Quaternary
Aalto and others, 1981
Kelsey and Carver, 1988

18 SURPUR CREEK FAULT
Quaternary
Aalto and others, 1981
Kelsey and Carver, 1988 (Fig. 2)
Wagner and Saucedo, 1987

19 FAULTS BENEATH MOUNT SHAsta
Quaternary
Williams, H., 1934 (p. 232, 234-236, 244)

20 ASH CREEK FAULT ZONE
Quaternary
Bryant, WA, 1990a
Hart and others, 1991

21 BLACK FOX MOUNTAIN FAULT ZONE
Quaternary
Bryant, W.A, 1990a
Hart and others, 1991

22 STEPHENS PASS FAULT
Historic (1978 earthquake rupture)
Bennett and others, 1979

23 UNNAMED FAULTS
Late Quaternary; Holocene?
Hart and others, 1991

24 MAYFIELD FAULT ZONE
Holocene
Donnelly-Nolan, J.M., 1990
Wills, C.J., 1990a
Hart and others, 1991
EFZ: Porcupine Butte, Indian Spring Mtn., East of Pondosa

25 UNNAMED FAULTS (PART OF MAYFIELD FAULT ZONE)
Late Quaternary; Holocene
Champion and Donnelly-Nolan, 1989
Donnelly-Nolan, J.M., 1989
Wills, C.J., 1990a
Woodward-Clyde Consultants, 1987b
Hart and others, 1991

26 LIKELY FAULT
Quaternary; Late Quaternary
Bryant, WA, 1990c and written communication 8/2/93
(late Quaternary in part)
CDWR, 1963
Grose and Saucedo, 1993
Hart and others, 1991
Howard, J.K., 1988 (pre-Quaternary?)
Potter, S.L., 1988 (pre-Quaternary)
Weick, R.J., 1990 (Holocene in part?)

26A NELSON CORRAL FAULT
Late Quaternary
Bryant, WA, 1990c
CDWR, 1963
Hart and others, 1991

27 PITTVILLE FAULT
Late Quaternary; Holocene
Wills, C.J., 1990a
Woodward-Clyde Consultants, 1987b
Hart and others, 1991
EFZ: Timbered Crater, Day, Pittville

28 McARTHUR FAULT
Holocene
Wills, C.J., 1990a
Woodward-Clyde Consultants, 1987b
EFZ: Fall River Mills, Cable Mtn., Jellico, Swains Hole

29 HAT CREEK FAULT
Holocene
Wills, C.J., 1990a
Hart and others, 1991
Woodward-Clyde Consultants, 1987b
EFZ: Hogback Ridge, Murken Bench, Old Station
<table>
<thead>
<tr>
<th>Page</th>
<th>Fault Name</th>
<th>Age</th>
<th>References</th>
</tr>
</thead>
</table>
| 30   | UNNAMED FAULTS (PARTS OF HAT CREEK AND McARTHUR FAULT ZONES) | Late Quaternary and Holocene | Wills, C.J., 1990a  
Hart and others, 1991  
Woodward-Clyde Consultants, 1987b |
| 30A  | ROCKY LEDGE FAULT                                | Holocene             | Wills, C.J., 1990a  
Hart and others, 1991  
EFZ: Burney, Cassel, Burney Falls, Dana |
| 31   | WILLOW SPRINGS FAULT                             | Not Holocene as earlier published (Sanborn, 1960) | Howard, J.K., 1987 |
| 32   | GROGAN FAULT (ALSO RED MOUNTAIN FAULT-NO. 77)   | Quaternary           | Aalto and others, 1988  
Cashman and others, 1981, 1982  
Carver, G.A., 1989b  
Manning and Ogle, 1950  
McLaughlin and others, 2000  
Kelsey and Carver, 1988  
Wagner and Saucedo, 1987 |
| 33   | BALD MOUNTAIN FAULT                              | Quaternary           | Aalto and other, 1981  
Carver, G.A., 1989b  
Cashman and others, 1982  
Manning and Ogle, 1950  
Wagner and Saucedo, 1987 |
| 34   | BIG LAGOON FAULT                                 | Quaternary           | Aalto and other, 1981  
Kelsey and Carver, 1988 (Fig. 2)  
Wagner and Saucedo, 1987 |
| 35   | TRINIDAD FAULT (OFFSHORE)                        | Late Quaternary      | Clarke and Field, 1989  
Clarke, S.H., Jr., 1990 |
| 36   | MAD RIVER FAULT ZONE (OFFSHORE)                  | Holocene             | Clarke and Field, 1989  
Clarke, S.H., Jr., 1990 |
| 37   | LITTLE SALMON FAULT (OFFSHORE)                   | Holocene             | Carver and others, 1989 (Holocene age)  
Clarke and Field, 1989  
Clarke, S.H., Jr., 1992 (age, p. 211) |
| 37A  | UNNAMED FAULTS (OFFSHORE)                        | Late Quaternary; Quaternary | Clarke and Field, 1989  
Clarke, S.H., Jr., 1993 |
| 38   | TRINIDAD FAULT                                  | Holocene             | Aalto and others, 1981  
Carver, G.A., 1989b  
Carver and others, 1982  
Coppersmith, K.J., 1980 (Fig. B-1)  
Kilbourne, 1985a  
Rust, D., 1982  
Smith, T.C., 1982b  
EFZ: Trinidad |
| 39   | BLUE LAKE FAULT                                 | Holocene             | Carver, G.A., 1989b  
Kelsey and Carver, 1988 (p. 4802)  
McLaughlin and others, 2000 |
| 40   | MAD RIVER FAULT                                  | Holocene             | Carver, G.A., 1989b  
Hart and others, 1983  
Kelsey and Carver, 1988 (p. 4802)  
McLaughlin and others, 2000  
Smith, T.C., 1982b  
EFZ: Arcata North |
| 41   | BAY ENTRANCE FAULT                               | Late Quaternary      | Woodward-Clyde Consultants, 1980 (Fig. C-1 and C-56)  
Wills, C.J., 1990e  
Hart and others, 1991 |
| 42   | FICKLE HILL FAULT                                | Late Quaternary      | Carver, G.A., 1989b  
Hart and others, 1983  
Kelsey and Carver, 1988 (p. 4802)  
McLaughlin and others, 2000  
EFZ: Arcata South, Arcata North |
| 43   | MCKINLEYVILLE FAULT                              | Holocene             | Carver, G.A., 1989b  
Hart and others, 1983  
Kelsey and Carver, 1988 (p. 4802)  
Smith, T.C., 1982b  
EFZ: Arcata North, Arcata South, Korbel |
| 44   | EATON ROUGHS FAULT ZONE                          | Quaternary           | Kelsey and Carver, 1988  
Aalto and others, 1988  
McLaughlin and others, 2000  
Kelsey and Allwardt, 1987 |
| 45   | NORTH SPIT FAULT                                 | Quaternary           | Earth Sciences Associates, 1976 (p. 10 and 11)  
Woodward-Clyde Consultants, 1980 (Fig. B-1) |
46  EAST TRACE LITTLE SALMON FAULT  
Late Quaternary  
Carver, GA, 1989a  
Wills, C.J., 1990e

47  LITTLE SALMON FAULT  
Holocene  
Carver, G.A., 1989a, 1989b  
Carver and others, 1989  
Clarke and Carver, 1991, (250 Years B.P.)  
Wills, C.J., 1990e  
Hart and others, 1983, 1991  
Kelsey and Carver, 1988  
Woodward-Clyde Consultants, 1980 (Appendix, C43, and Fig. C-1)  
EFZ: Fields Landing, Fortuna, Hydesville

47A  TABLE BLUFF FAULT  
Late Quaternary  
Carver, GA, 1993  
McLaughlin and others, 2000

47B  UNNAMED FAULTS WEST OF HUMBOLDT BAY (OFFSHORE)  
Late Quaternary  
Clarke, S.H., Jr., 1993

48  RUSS FAULT ZONE (OFFSHORE)  
Late Quaternary  
Clarke, S.H., Jr., 1992 (p. 208, late Quaternary?)  
Clarke and Field, 1989  
McLaughlin and others, 2000

49  BEAR RIVER FAULT ZONE (OFFSHORE)  
Quaternary  
McLaughlin and others, 2000  
Clarke and Field, 1989; personal communication 3/12/90

50  FRESHWATER FAULT  
Quaternary  
Carver, G.A., 1989b  
Ellen and others, 1989  
McLaughlin and others, 2000

51  YAGER FAULT  
Late Quaternary  
Carver, G.A., 1989b  
Hart and others, 1983; 1991  
McLaughlin and others, 2000  
Wills, C.J., 1990e

52  GOOSE LAKE FAULT  
Holocene  
Carver and others, 1982  
Hart and others, 1983  
Kelsey and Carver, 1988 (p. 4803)  
Wills, C.J., 1990e  
Woodward-Clyde Consultants, 1980  
EFZ: Hydesville

53  SALT CREEK FAULT  
Pre-Quaternary  
Blake, M.C., Jr., 1989 (personal communication)  
Ellen and others, 1989  
Fraticelli and others, 1987

54  BEAR WALLOW FAULT  
Pre-Quaternary  
Blake, M.C., Jr., 1989 (personal communication)  
Ellen and others, 1989  
Fraticelli and others, 1987

55  BATTLE CREEK FAULT  
Late Quaternary; Quaternary  
Harwood and Helley, 1987 (p. 23)  
Helley and others, 1981  
U.S. Army Corps of Engineers, 1986 (p. 29)

56  ALMANOR FAULT ZONE  
Late Quaternary; Quaternary  
Dudley, T., 1986  
Wills, C.J., 1990c  
Kelson and others, 1995

57  UNNAMED FAULT ON SOUTHEAST SIDE OF EAGLE LAKE  
Late Quaternary  
Clark and others, 1984 (100,000 -240,000 yrs.)  
Wills, C.J., 1990b

58  UNNAMED FAULT NORTHWEST OF SUSANVILLE  
Quaternary  
Clark and others, 1984 (700,000-1,900,000 yrs)  
Grose and others, 1991  
Wills, C.J., 1990b

59  UNNAMED FAULT AT NORTHWEST CORNER OF HONEY LAKE  
Holocene  
Grose and others, 1991  
Roberts, C.T., 1985  
Wills, C.J., 1990d (Holocene)  
Hart and others, 1991

60  HONEY LAKE FAULT ZONE  
Holocene; Quaternary  
Grose and others, 1991  
Wills, C.J., 1990d  
Hart and others, 1991  
EFZ: Standish, Stony Ridge, Milford, Herlong. McKesick Peak, Doyle, Constantia

61  WARM SPRINGS VALLEY FAULT AND UNNAMED FAULTS  
Holocene  
Wills, C.J., 1990d  
Hart and others, 1991  
EFZ: Milford, Herlong, Calneva Lake. Doyle
62 FORT SAGE FAULT
Historic (1950 earthquake rupture)
Gianella, V.P., 1957
Grose and others, 1991
Wills, C.J., 1990d
Hart and others, 1991
EFZ: Doyle

63 UNNAMED FAULTS BORDERING LONG VALLEY (PART OF HONEY LAKE FAULT ZONE)
Holocene
Wills, C.J., 1990d
Hart and others, 1991
Grose, T.L.T., 2000a
Saucedo, G.J., 1992
EFZ: Constantia

64 DIAMOND MOUNTAINS FAULT (LAST CHANCE FAULT ZONE)
Late Quaternary
Grose, T.L.T., 2000a
Saucedo, G.J., 1992

65 UNNAMED FAULT (LAST CHANCE FAULT ZONE)
Late Quaternary
Grose, T.L.T., 2000a

66 INDIAN VALLEY FAULT
Holocene? (in part)
Dudley, T., 1986
Woodward-Clyde Consultants, 1978b

66A FAULTS SOUTH OF LAKE ALMANOR, INCLUDING CANTERBURY, MULESHOE MINE, PONDEROSA FLAT, ROCK LAKE, SKINNER FLAT, AND STOVER MOUNTAIN FAULTS OF THE BUTT CREEK FAULT ZONE
Quaternary, Late Quaternary
Sawyer and others, 1995
Pacific Gas & Electric Company, 1994

67 MEADOW VALLEY FAULT
Quaternary
Page and Sawyer, 2004

68 RICH BAR FAULT AT MEADOW VALLEY (BOTTLE SPRINGS FAULT)
Quaternary
Saucedo, G.J., 1992
Woodward-Clyde Consultants, 1977
Pacific Gas & Electric Company, 1993

68A HASKINS VALLEY FAULT
Quaternary
Pacific Gas & Electric Company, 1993

68B LITTLE GRASS VALLEY FAULT
Late Quaternary
Pacific Gas & Electric Company, 1993

69 PARADISE FAULT
Late Cenozoic; Quaternary?
Dudley, T., 1988
Pacific Gas & Electric Company, 1993

70 COHASSET RIDGE FAULT
Quaternary
Woodward-Clyde Consultants, 1977
Pacific Gas & Electric Company, 1993

70A BEAVER CREEK FAULT
Quaternary
Pacific Gas & Electric Company, 1993

71 MAGALIA FAULT
Late Cenozoic; Quaternary?
Dudley, T., 1988
Pacific Gas & Electric Company, 1993

72 CHICO MONOCLINE FAULT
Quaternary
Harwood and Helley, 1987 (p. 20)
Saucedo, G.J., 1992

73 CORNING FAULT
Quaternary
Blake and others, 1989
Harwood and Helley, 1987 (p. 9, 34)

74 RED BLUFF FAULT
Pre-Quaternary
Harwood and Helley, 1987 (p. 26)

75 WILLOWS FAULT ZONE
Pre-Quaternary
Harwood and Helley, 1987 (p. 7, 9)

76 COAST RANGE FAULT
Pre-Quaternary
Jayko and others, 1987

77 GROGAN-RED MOUNTAIN FAULT ZONE
Age?
Blake, M.C., Jr., 1989 (personal communication)
Ellen and others, 1989

78 LAKE MOUNTAIN FAULT ZONE
Late Quaternary
Jayko and others, 1989
McLaughlin and others, 2000
Ellen and others, 1989
Herd, D.G., 1978a

79 GARBERVILLE FAULT ZONE
Quaternary
McLaughlin and others, 2000
Ellen and others, 1989

80 RUSS FAULT ZONE
Late Quaternary; Quaternary
Carver and others, 1982 (map p. 97)
Ellen and others, 1989
Kelsey and Carver, 1988
McLaughlin and Ellen, 1989
McLaughlin and others, 2000
Ogle, B.A., 1953
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<th>Page</th>
<th>Fault Name</th>
<th>Age/Period</th>
<th>References</th>
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<tr>
<td>81</td>
<td>BEAR RIVER FAULT ZONE</td>
<td>Quaternary</td>
<td>McLaughlin and others, 2000 McLaughlin and Ellen, 1989</td>
</tr>
<tr>
<td>82</td>
<td>PETROLIA THRUST FAULT</td>
<td>Quaternary</td>
<td>McLaughlin and others, 2000 McLaughlin and Ellen, 1989</td>
</tr>
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<td>83</td>
<td>MENDOCINO FAULT ZONE (OFFSHORE)</td>
<td>Holocene; Late Quaternary</td>
<td>Clarke and Field, 1989 Clarke, S.H., Jr., 1990 McLaughlin and others, 2000</td>
</tr>
<tr>
<td>84</td>
<td>FAULT ALONG MATTOLE CANYON (OFFSHORE)</td>
<td>Late Quaternary?</td>
<td>McLaughlin and others, 2000</td>
</tr>
<tr>
<td>85</td>
<td>KING RANGE THRUST ZONE</td>
<td>Quaternary-Late Quaternary</td>
<td>McLaughlin and Ellen, 1989 McLaughlin and others, 2000</td>
</tr>
<tr>
<td>86</td>
<td>BRICELAND FAULT (GARBERVILLE-BRICELAND FAULT ZONE)</td>
<td>Quaternary</td>
<td>Ellen and others, 1989 McLaughlin and others, 2000</td>
</tr>
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<td>88</td>
<td>WHALE GULCH FAULT</td>
<td>Late Quaternary</td>
<td>McLaughlin and Ellen, 1989 McLaughlin and others, 2000</td>
</tr>
<tr>
<td>89</td>
<td>BEAR HARBOR FAULT ZONE</td>
<td>Late Quaternary</td>
<td>Beutner and others, 1980 McLaughlin and others, 2000</td>
</tr>
<tr>
<td>90</td>
<td>ROUND VALLEY FAULT ZONE (PART OF BARTLETT SPRINGS FAULT SYSTEM)</td>
<td>Quaternary</td>
<td>Bryant, W.A., 1993 dePolo and Ohlin, 1984 Jayko and others, 1989 McLaughlin and others, 2000</td>
</tr>
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<td>91</td>
<td>ETSEL RIDGE FAULT (PART OF BARTLETT SPRINGS FAULT SYSTEM)</td>
<td>Quaternary?</td>
<td>Bryant, W.A., 1993 Jayko and others, 1989</td>
</tr>
<tr>
<td>91A</td>
<td>COTTON EV FAULT</td>
<td>Pre-Quaternary</td>
<td>O'day, M.S., 1974</td>
</tr>
<tr>
<td>91B</td>
<td>UNNAMED FAULT BY FORT BRAGG</td>
<td>Pre-Quaternary</td>
<td>Kramer, J.C., 1976</td>
</tr>
<tr>
<td>91C</td>
<td>CHAMBERLAIN FAULT</td>
<td>Pre-Quaternary</td>
<td>Kramer, J.C., 1976</td>
</tr>
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<td>93</td>
<td>STONY CREEK FAULT</td>
<td>Late Quaternary in part</td>
<td>Earth Sciences Associates, 1980 Steele, W.C., 1979</td>
</tr>
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<td>94</td>
<td>UNNAMED FAULTS IN SUTTER BUTTES</td>
<td>Quaternary</td>
<td>Saucedo, G.J., 1992</td>
</tr>
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<td>95</td>
<td>CLEVELAND HILL FAULT</td>
<td>Historic (1975 earthquake ground rupture); Quaternary</td>
<td>Akers and McQuilkin, 1975 Clark and others, 1976 Hart and Rapp, 1975 Saucedo, G.J., 1992 EFZ: Bangor</td>
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<td>97</td>
<td>MOHAWK VALLEY AREA (EAST OF CLIO)</td>
<td>1875 earthquake faults of Turner, 1897, not verified</td>
<td>Grose, T.L.T., 2000c Smith, T.C., 1983b (p. 9)</td>
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<tr>
<td>Page</td>
<td>Fault Name</td>
<td>Age</td>
<td>References</td>
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<td>99A</td>
<td>UNNAMED FAULTS (SOUTHERN LAST CHANCE FAULT ZONE)</td>
<td>Quaternary</td>
<td>Grose, T.L.T., 1992, 2000b</td>
</tr>
<tr>
<td>100</td>
<td>UNNAMED FAULTS SOUTH AND EAST OF TRUCKEE</td>
<td>Late Quaternary</td>
<td>Latham, T.S., Jr., 1985&lt;br&gt;Saucedo, G.J., 1992&lt;br&gt;Wise and Sylvester, 2004</td>
</tr>
<tr>
<td>101</td>
<td>AGATE BAY FAULT</td>
<td>Quaternary</td>
<td>Saucedo, G.J., 2005&lt;br&gt;Schevickert and others, 2000</td>
</tr>
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<td>102</td>
<td>NORTH TAHOE FAULT</td>
<td>Holocene</td>
<td>Hyne and others, 1972 (p. 1440)&lt;br&gt;Hawkins and others, 1986 (p. 56)&lt;br&gt;Saucedo, G.J., 2005</td>
</tr>
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<td>106</td>
<td>RESORT FAULT ZONE</td>
<td>Quaternary</td>
<td>McLaughlin and others, 1985a (p. 15-16)&lt;br&gt;McLaughlin and others, 1990</td>
</tr>
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<td>107</td>
<td>BAD RIDGE FAULT</td>
<td>Quaternary (Possibly late Pleistocene)</td>
<td>McLaughlin and others, 1985a (p. 16)&lt;br&gt;McLaughlin and others, 1990</td>
</tr>
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<td>108</td>
<td>LITTLE INDIAN VALLEY FAULT</td>
<td>Quaternary</td>
<td>McLaughlin and others, 1985a (p. 15)&lt;br&gt;McLaughlin and others, 1990</td>
</tr>
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<td>109</td>
<td>CROSS SPRING FAULT</td>
<td>Quaternary (in part)</td>
<td>McLaughlin and others, 1985a&lt;br&gt;McLaughlin and others, 1990</td>
</tr>
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<td>110</td>
<td>CLOVER VALLEY FAULT ZONE</td>
<td>Quaternary</td>
<td>Hearn and others, 1988 (Fig. 2)&lt;br&gt;Sims and Rymer, 1976</td>
</tr>
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<td>111</td>
<td>FAULTS IN MT. KONOCTI AREA</td>
<td>Holocene; Late Quaternary</td>
<td>Bortugno, E.J., 1982&lt;br&gt;Bryant, W.A., 1982c&lt;br&gt;Hart and others, 1983&lt;br&gt;EFZ: Clearlake Highlands, Kelseyville</td>
</tr>
<tr>
<td>112</td>
<td>BIG VALLEY FAULT</td>
<td>Late Quaternary; Historic (1906 earthquake ruptures)</td>
<td>Bryant, W.A., 1982c&lt;br&gt;Clark and others, 1984&lt;br&gt;Hearn and others, 1981&lt;br&gt;Hearn and others, 1988 (p. 15)&lt;br&gt;EFZ: Kelseyville</td>
</tr>
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<td>113</td>
<td>ADOBE CREEK FAULT</td>
<td>Late Quaternary</td>
<td>Clark and others, 1984 (120,000-450,000 yrs.)&lt;br&gt;Hearn and others, 1988</td>
</tr>
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<td>114A</td>
<td>TWO ROCK FAULT</td>
<td>Pre-Quaternary</td>
<td>Kramer, J.C., 1976&lt;br&gt;Kilbourne, R.T., 1984</td>
</tr>
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<td>115</td>
<td>UNNAMED FAULTS</td>
<td>Pre-Tertiary</td>
<td>Manson, M.W., 1984</td>
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117 NAVARRO STRUCTURAL DISCONINUITY (OFFSHORE)
Age?
Clarke and Field, 1989

118 HATHAWAY CREEK FAULT (AND UNNAMED FAULT TO WEST)
Late Quaternary
Prentice, C.S., 1989 (p. 110) and personal communication 9/17/89

119 SAN ANDREAS FAULT ZONE (FORT ROSS TO MANCHESTER)
Historic (1906 earthquake rupture); Late Quaternary
Blake and others, 1971
Brown and Wolfe, 1972
EFZ: Arched Rock, Fort Ross, Plantation, Annapolis,
Stewarts Point, SW 1/4 Ornbaun Valley, Gualala, NE 1/4
Point Arena, Point Arena, Mallo Pass Creek

120 COLLAYOMI FAULT
Late Quaternary
Bortugno, E.J., 1982
Bryant, WA, 1982c (p. 15, Figs. 2b, 2c, 2d)
Hart and others, 1983
Hearn and others, 1976
McLaughlin, R.J., 1978

121 HUNTING FAULT
Quaternary
Bortugno, E.J., 1982
Lawton, J.E., 1956

122 HUNTING CREEK FAULT
Holocene
Bryant, WA, 1982b
Hart and others, 1983
EFZ: Jericho Valley, Knoxville

123 CAPAY FAULT
Pre-Quaternary?
Harwood and Helley, 1987 (p. 29)

124 DUNNIGAN HILLS (ZAMORA) FAULT AND ADJACENT AREA
Late Pleistocene; Holocene?
Bryant, WA, 1982e (questions Holocene age)
Bryant, W.A., 2010 (may be fold scarp rather than surface fault)
Helley and Herd, 1977
Harwood and Helley, 1987 (p. 29)
Helley and Barker, 1979

125 DEWITT FAULT
(FOOTHILLS FAULT SYSTEM)
Late Quaternary; Holocene?
Borchardt and others, 1980
Bryant, WA, 1983b
Woodward-Clyde Consultants, 1977
Page and Sawyer, 2004

126 BEAR MOUNTAINS FAULT ZONE (MAIDU EAST FAULT)
(FOOTHILLS FAULT SYSTEM)
Late Quaternary?
Bryant, W.A., 1983a
Woodward-Clyde Consultants, 1977, 1978b
Borchardt and others, 1980
Page and Sawyer, 2004

127 BEAR MOUNTAINS FAULT ZONE (RESCUE FAULT)
(FOOTHILLS FAULT SYSTEM)
Late Quaternary
Bryant, W.A., 1983d
Woodward-Clyde Consultants, 1977, 1978b
Page and Sawyer, 2004

128 GENOA FAULT (ALSO CALLED CARSON VALLEY FAULT)
Holocene
Clark and others, 1984
Armin and John, 1983
Dohrenwend, J.C., 1982
Smith, T.C., 1984a
EFZ: Markleeville, Woodfords, Minden

129 UNNAMED FAULT
Late Quaternary and/or Holocene
Dohrenwend, J.C., 1982

129A UNNAMED FAULT
Quaternary; Pre-Quaternary
Dohrenwend, J.C., 1982
John and others, 1981
Stewart and others, 1982

130 ANTELOPE VALLEY FAULT AND ADJACENT FAULTS
Holocene; Quaternary
Bryant, WA, 1984a
Hayes, G.F., 1985 (p. 66-68)
Dohrenwend, J.C., 1982
John and others, 1981
EFZ: NE 1/4 and SE 1/4 Topaz Lake, SW 1/4 Desert Creek Peak

131 SLINKARD VALLEY FAULT
Late Quaternary
Bryant, WA. 1983c
Dohrenwend, J.C., 1982
John and others, 1981
Hayes, G.F., 1985 (p. 69)

131A UNNAMED FAULTS
Pre-Quaternary
Stewart and others, 1982

132 WEST WALKER RIVER FAULT
Holocene; Late Quaternary
Bryant, WA. 1983c
Dohrenwend, J.C., 1982
Clark, M.M., 1967
Clark and others, 1984
Hayes, G.F., 1985
EFZ: Fales Hot Springs
133 MONO LAKE FAULT (LEE VINING FAULT)
ROBINSON CREEK FAULT (IN PART BRIDGEPORT BASIN)
FAULT OF M. CLARK)
UNNAMED FAULTS
Holocene; Late Quaternary; Quaternary
Bryant, W.A., 1984b
Bryant, W.A., 1984d
Clark and others, 1984 (10,000 -13,000 yrs)
Dohrenwend, J.C., 1982
Hayes, G.F., 1985 (p. 88-90)
Bailey, R.A., 1989
EFZ: NW 1/4 and NE 1/4 Mono Craters, SW 1/4 and NW
1/4 Bodie, NE 1/4 Matterhorn Peak, SW 1/4 Bridgeport,
Fales Hot Springs. SE 1/4 Fales Hot Springs

134 UNNAMED FAULTS
Quaternary
Dohrenwend, J.C., 1982

135 MELONES FAULT ZONE (POORMAN GULCH FAULT)
(FOOTHILLS FAULT SYSTEM)
Late Quaternary; Holocene?
Bryant, W.A., 1983a (Fig. 3)
Woodward-Clyde Consultants, 1977, 1978c (Fig. C.4-2)
Page and Sawyer, 2004

136 BEAR MOUNTAINS FAULT ZONE (YOUNGS CREEK FAULT)
(FOOTHILLS FAULT SYSTEM)
Quaternary
Bryant, W.A., 1983d (Fig. 3)
Woodward-Clyde Consultants, 1977, 1978c (Fig. C.4-2)
Pacific Gas & Electric Company, 1993
Page and Sawyer, 2004

137 MIDLAND FAULT ZONE
Quaternary (possibly Holocene in part)
Harwood and Helley, 1987 (Plate 1)
Weber-Band, J., 1998

138 EAST VALLEY FAULT
Pre-Quaternary
Harwood and Helley, 1987 (p. 27)

139 WEST VALLEY FAULT
Pre-Quaternary
Harwood and Helley, 1987 (p. 27, 29)

140 UNNAMED FAULTS EAST OF LAKE BERRYESSA
Quaternary
Bortugno, E.J., 1982
Hart and others, 1983
Helley and Herd, 1977

141 MAACAMA FAULT ZONE (SOUTHERN PART)
Holocene
Bortugno, E.J., 1982
Bryant, W.A., 1982a
Hart and others, 1983
McLaughlin, R.J., 1978
McLaughlin and others, 2004
Smith, T.C., 1982a
EFZ: Mark West Springs, Mount St. Helena. Jimtown,
Geyserville, Asti

142 HEALDSBURG FAULT
Quaternary
Bortugno, E.J., 1982
Bryant, WA. 1982a
EFZ: Healdsburg, Santa Rosa

143 BENNETT VALLEY FAULT ZONE
Late Quaternary
Bortugno, E.J., 1982
Delattre and others, 2007
McLaughlin and others, 2008
Herd and Helley, 1977
Wagner and others, 2003

144 UNNAMED FAULTS NORTHWEST OF SANTA ROSA NEAR TRENTON
Late Quaternary
Bortugno, E.J., 1982
Herd and Helley, 1977

145 SAN ANDREAS FAULT ZONE (OFFSHORE)
Late Quaternary
Bortugno, E.J., 1982
McCulloch, D.S., 1989a

146 BLOOMFIELD FAULT
Quaternary
Bezore and others, 2003
Bortugno, E.J., 1982

146A AMERICANO CREEK FAULT
Quaternary
Bortugno, E.J., 1982

147 SAN ANDREAS FAULT ZONE (BODEGA HEAD TO BOLINAS)
Historic (1906 earthquake rupture); Holocene
Brown and Wolfe, 1972
EFZ: Duncans Mills. Bodega Head, Valley Ford,
Tomales, Drakes Bay, Point Reyes NE, Inverness,
Double Point, Bolinas

148 POINT REYES FAULT (OFFSHORE)
Quaternary
Bortugno, E.J., 1982
McCulloch and Greene, 1990
Ryan and others, 2008

149 RODGERS CREEK FAULT
Holocene
Bortugno, E.J., 1982
Bryant, W.A., 1982a
Hart, E.W., 1982, 1992
Jennings, CW., 1988
Randolph-Loar, 2002
Wagner and others, 2002a, 2002b, 2003
EFZ: Sears Point, Petaluma River, Glen Ellen, Cotati,
Santa Rosa, Mark West Springs, Healdsburg
18

150 TOLAY FAULT
Quaternary?
- Clahan and others, 2003
- Hart and others, 1981
- Lawton and others, 1977

150A BURDELL MOUNTAIN FAULT
Quaternary
- Bortugno, E.J., 1982
- Bezore and others, 2002
- Wagner and others, 2002b

151 UNNAMED FAULT WEST OF CARNEROS CREEK
Quaternary
- Bortugno, E.J., 1982
- Hart and others, 1983
- Helley and Herd, 1977

152 WEST NAPA FAULT ZONE
Holocene in southern part; late Quaternary in northern part
- Bortugno, E.J., 1982
- Bryant, W.A., 1982
- Clahan and others, 2004
- Hart and others, 1983
- Helley and Herd, 1977
- EFZ: Cuttngs Wharf, Cordelia

153 SODA CREEK FAULT
Late Quaternary
- Bortugno, E.J., 1982
- Hart and others, 1983
- Bezore and others, 2005
- Clahan and others, 2004

154 GREEN VALLEY FAULT
Holocene; creep
- Bortugno, E.J., 1982
- McFarland and others, 2009 (creep)
- Hart and others, 1983
- Baldwin and others, 1998
- Bryant, W.A., 1982
- EFZ: Mt. George, Cordelia, Fairfield South, Port Chicago (Vine Hill)

155 CORDELIA FAULT
Holocene in southern part; late Quaternary in northern part
- Bortugno, E.J., 1982
- Bryant, W.A., 1981a, 1991b
- Hart and others, 1983
- Helley and Herd, 1977
- EFZ: Cordelia

156 VACA FAULT
KIRBY HILL FAULT
Late Quaternary?
- Clark and others, 1984 (10,000-120,000 yrs)
- Hart and others, 1983
- Knuepfer, P.L., 1977
- Graymer and others, 2006

157 RIO VISTA FAULT
Quaternary?
- Bryant, W.A., 1982d
- Hart and others, 1983
- Shlemon and Begg, 1975

158 FERNDALE FAULT
Quaternary
- McLaughlin and others, 2000

159 DAVIS FAULT (ANTIOCH FAULT REMOVED)
Quaternary
- Bortugno and others, 1991

160 CONCORD FAULT
Historic (active creep); Holocene
- Bortugno and others, 1991
- Wills and Hart, 1992a, 1992b
- McFarland and others, 2009 (creep)
- Helley and Herd, 1977
- Sharp, R.V., 1973
- Sims and others, 1973
- EFZ: Port Chicago (Vine Hill), Walnut Creek, Clayton

161 PINOLE FAULT
Quaternary
- Graymer and others, 2006

162 SAN ANDREAS FAULT (BOUNDARY FAULTS)
Late Quaternary
- Bortugno and others, 1991
- Galloway, A.J., 1977
- Wagner, D.L, 1977
- EFZ: Bolinas

163 HAYWARD FAULT (NORTHERN PART)
Historic (1868 earthquake rupture; creep); Holocene
- Bonilla, M.G., 1970
- Bortugno and others, 1991
- Hart, E.W., 1979c
- Hart and others, 1981
- Louderback, G.D., 1947
- Lienkaemper, J.J., 2008
- McFarland and others, 2009
- Smith, T.C., 1980a, 1980b
- EFZ: Mare Island, Richmond, Oakland East, Oakland West, San Leandro, Hayward, Newark, Niles, Milpitas

164 SHERBURNE HILLS FAULT
Quaternary
- Bortugno and others, 1991
- Hart and others, 1981

165 MARSH CREEK FAULT AND CLAYTON FAULT
Holocene; Quaternary; late Quaternary
- Bortugno and others, 1991

166 MIDWAY FAULT
Late Quaternary
- Clark and others, 1984 (100,000-600,000 yrs)
- Sowers and others, 1993b

167 VERNALIS FAULT
Quaternary?
- Bartow, J.A., 1991 (p.8)
168  BEAR MOUNTAINS FAULT ZONE (BOWIE FLAT FAULT)  
    (FOOTHILLS FAULT SYSTEM)  
    Late Quaternary  
      Bryant, W.A., 1983d (Fig. 3)  
      Woodward-Clyde Consultants, 1977, 1978a, 1978c (Fig.  
        C.4-2)  
      Pacific Gas & Electric Company, 1993  
      Page and Sawyer, 2004  

169  MELONES FAULT ZONE (RAWHIDE FLAT EAST FAULT)  
    (FOOTHILLS FAULT SYSTEM)  
    Late Quaternary  
      Bryant, W.A., 1983d (Fig. 3)  
      Woodward-Clyde Consultants, 1977, 1978a, 1978c (Fig.  
        C.4-2)  
      Page and Sawyer, 2004  

170  MELONES FAULT ZONE (RAWHIDE FLAT WEST FAULT)  
    (FOOTHILLS FAULT SYSTEM)  
    Late Quaternary  
      Bryant, W.A., 1983d (Fig. 3)  
      Woodward-Clyde Consultants, 1977, 1978a, 1978c (Fig.  
        C.4-2)  
      Page and Sawyer, 2004  

171  BEAR MOUNTAINS FAULT ZONE (NEGRO JACK POINT  
    FAULT)  
    (FOOTHILLS FAULT SYSTEM)  
    Late Quaternary  
      Bryant, W.A., 1983d (Fig. 3)  
      Woodward-Clyde Consultants, 1977, 1978a, 1978c (Fig.  
        C.4-2)  
      Page and Sawyer, 2004  

172  BLACK BUTTE FAULT  
    Quaternary  
      Bartow, J.A., 1991 (p.8)  
      Bortugno and others, 1991  
      Noller and others, 1993  
      Sowers and others, 1993b  

172A CARNEGIE FAULT  
    Holocene in part  
      Carpenter and others, 1991  
      Sowers and others, 1993b  

173  CORRAL HOLLOW FAULT  
    Quaternary  
      Bortugno and others, 1991  
      Sowers and others, 1993b  

174  GREENVILLE FAULT  
    Late Quaternary; Historic (1980 earthquake rupture);  
    Quaternary  
      Bolt and others, 1981  
      Bortugno and others, 1991  
      Hart, E.W., 1981b  
      EFZ: Tassajara, Byron Hot Springs, Altamont, Midway,  
        Cedar Mtn., Elyar Mountain  

175  LIVERMORE FAULT  
    Quaternary  
      Carpenter and others, 1984  

176  PLEASANTON FAULT  
    Holocene; Quaternary  
      Hart, E.W., 1981a  
      Herd, D.G., 1978b  
      EFZ: Dublin, Livermore, La Costa Valley  

177  CALAVERAS FAULT (NORTHERN PART)  
    Historic (1861); Holocene; Late Quaternary  
      Radbruch, D.H., 1968  
      Bortugno and others, 1991  
      Brewer, W.H., 1930 (1861 ground cracks, p. 185)  
      Bryant, W.A., 1981d  
      Graymer and others, 2006  
      Hart, E.W., 1981a  
      Hart and others, 1981  
      Herd, D.G., 1978b  
      EFZ: Diablo, Dublin, Niles, La Costa Valley, Calaveras  
      Reservoir, Mt. Day, Lick Observatory  

178  SAN BRUNO FAULT (DELETED)  
    Bonilla and others, 2000  

179  SERRA FAULT ZONE  
    Late Quaternary, Holocene in part  
    Bortugno and others, 1991  
    Brabb and others, 1998a  
    Brabb and Olson, 1986  
    Hart and others, 1981  
    Kennedy, D.G., 2002  
    Hengesh and others, 1996  

179A HILLSIDE FAULT  
    Pre-Quaternary  
    Brabb and Pampeyan, 1983  

180  STRUCTURAL DISCONTINUITIES (OFFSHORE)  
    Age?  
    McCulloch and Greene, 1990 (Discontinuities separating  
      differing Neogene structural domains. May indicate  
      discontinuities between basement rocks)  

181  SEAL COVE FAULT (SAN GREGORIO FAULT ZONE)  
    Holocene; Late Quaternary; creep?; Quaternary  
    Bortugno and others, 1991  
    Brabb and Olson, 1986 (creep)  
    Brabb and others, 1998a  
    Galehouse, J.S., 1992  
    Hart and others, 1981  
    Ryan and others, 2008  
    EFZ: Montara Mountain, Half Moon Bay  

182  MISSION FAULT  
    Quaternary  
    Bortugno and others, 1991  
    Bryant, W.A., 1980a  
    Graymer and others, 2006
VERONA FAULT
Holocene?
Bortugno and others, 1991
Hart and others, 1981
Herd and Brabb, 1980
Smith, D.P., 1981
EFZ: La Costa Valley

LAS POSITAS FAULT
Historic (possible 1980 and 1981 ruptures); Holocene; Late Quaternary
Bortugno and others, 1991
Hart and others, 1981
Herd, D.G., 1977
Smith, T.C., 1981
EFZ: Altamont

WILLIAMS FAULT
Late Quaternary?
Bortugno and others, 1991
Hart and others, 1981
Smith, D.P., 1981
Graymer and others, 2006

SECONDARY CRACKS (?) ADJACENT TO HAYWARD FAULT
Historic; 1868 earthquake cracks?
Bonilla, M.G., 1970
Lawson and others, 1908
Radbruch, D.H., 1974

CALAVERAS FAULT (CENTRAL PART)
Holocene; Historic (minor 1979 and 1984 fault break at Anderson Lake and south of Coyote Reservoir); Late Quaternary
Armstrong, C.F., 1979
Bortugno and others, 1991
Bryant and others, 1981
Lee and others, 1979
EFZ: Calaveras Reservoir, Mt. Day, San Jose East, Lick Observatory, Morgan Hill, Mt. Sizer, Gilroy, Gilroy Hot Springs, San Felipe, Hollister, Tres Pinos, Pacines, Cherry Peak

CROSLEY FAULT
Holocene (in part)
Bortugno and others, 1991
Hart and others, 1981
Bryant, W.A., 1980a
EFZ: Calaveras Reservoir

CONCEALED FAULTS IN SOUTH S.F. BAY AREA
Quaternary; Late Quaternary
Bortugno and others, 1991
California Department Water Resources, 1967
Pampeyan, E.H., 1979
Wentworth and others, 2010

MONTE VISTA FAULT
Late Quaternary, Holocene
Bortugno and others, 1991
Brabb and Olson, 1986
Brabb and others, 1998b
Graymer and others, 2006

Hart and others, 1981
Hitchcock and others, 1994
Hitchcock and Kelson, 1999
Sorg and McLaughlin, 1975, 1980

PILARCITOS FAULT
Quaternary
Bortugno and others, 1991
Brabb and Olson, 1986
Brabb and others, 1998b

FRIOLES FAULT
Holocene; Quaternary
Bortugno and others, 1991
Brabb and Olson, 1986
Clark and others, 1984 (8,400-200,000 yrs)
Hart and others, 1981
Smith, T.C., 1981
Weber and Lajoie, 1979, 1980

BUTANO FAULT
Quaternary
Bortugno and others, 1991
Brabb and Olson, 1986
Brabb and others, 1998b
McLaughlin and others, 2001

SAN ANDREAS FAULT ZONE (SAN FRANCISCO TO WATSONVILLE)
Holocene Historic (1906, 1838 earthquake ruptures; 1989 Loma Prieta1989 local earthquake fractures)
Louderback, G.D., 1947
Bonilla, M.G., 1970
Brown, R. 1972
Hall and others, 1974
Graymer and others, 2006

BERROCAL FAULT
Quaternary
Bortugno and others, 1991
Brabb and Olson, 2000
Graymer and others, 2006
Hart and others, 1981
McLaughlin and others, 2001
Sorg and McLaughlin, 1975, 1980

HAYWARD FAULT (SOUTHERN PART)
Holocene
Bortugno and others, 1991
Bryant, W.A., 1980a
Hart and others, 1981
EFZ: Calaveras Reservoir, Milpitas, San Jose East, Lick Observatory

EVERGREEN FAULT
Holocene
Bortugno and others, 1991
Bryant, W.A., 1980a, 1981
Hart and others, 1981
EFZ: San Jose East
198
SILVER CREEK FAULT (SEE ALSO 189)
Quaternary
Bortugno and others, 1991
Hart and others, 1981
Wentworth and others, 2010

199
HAYWARD FAULT (SOUTHEAST EXTENSION)
Holocene
Bortugno and others, 1991
Bryant, W.A., 1980a, 1981e
Graymer and others, 1995
Hart and others, 1981
EFZ: Calaveras Reservoir, San Jose East, Lick Observatory

200
SAN JOAQUIN FAULT
Late Quaternary
Bartow, J.A., 1991 (p. 8-9)
Clark and others, 1984 (100,000 – 600,000 yrs)
Herd, D.G., 1979
Lettis, W.R., 1985 (p. 97, 107, 108)
Lettis, W.R., 1988 (p. 343)
Noller and others, 1993
Sowers and others, 1993

201
HARTLEY SPRINGS FAULT
SILVER LAKE FAULT (PARKER LAKE FAULT)
UNNAMED FAULTS
Historic (1980); Holocene; Late Quaternary; Quaternary
Bartow, J.A., 1991 (p. 8-9)
Bryant, W.A., 1984f
Clark and others, 1982
Clark and others, 1984
Taylor and Bryant, 1980
EFZ: NE 1/4 Devils Postpile, SE 1/4 Mono Craters

202
HILTON CREEK FAULT, UNNAMED FAULTS
Historic (1980); Holocene; Quaternary
Bailey and Koeppen, 1977
Berry, E.B., 1990
Clark and others, 1982
Clark and others, 1984 (10,000-20,000 yrs)
Sherburne, R.W., 1980
Taylor and Bryant, 1980
EFZ: NE 1/4, NW 1/4, and SE 1/4 Mt. Morrison

202A
LONG VALLEY FAULT ZONE
Holocene
Bailey, R.A., 1989

203
FAULTS EAST OF LAKE CROWLEY
Late Quaternary; Holocene?
Bryan, W.A., 1984e
Bailey, R.A., 1989

204
WHITE MOUNTAINS FAULT ZONE (NORTHERN PART), BENTON VALLEY FAULT
Holocene
Bryan, E.W., 1984a
Smith, T.C., 1984b
dePolo, C.M., 1989
EFZ: Montgomery Peak SW and NW

205
EARTHQUAKE FAULT FRactURES IN CHALFANT VALLEY
Historic (1986 earthquake)
Lienkaemper and others, 1987
dePolo and Ramelli, 1987

206
FAULTS IN THE VOLCANIC TABLELAND, MONO AND INYO COUNTIES
Holocene
Bateman, P.C., 1965
Bryan, W.A., 1984e
Crowder and Sheridan, 1972
EFZ: Rovana, SW 1/4 and NW 1/4 Bishop, White Mtn. SW

207
ROUND VALLEY FAULT
Holocene
Bateman, P.C., 1965
Bailey, R.A., 1989
Bryan, W.A., 1984c, 1984i
Rinehart and Ross, 1957
EFZ: Mount Tom, Mt. Morgan, SW 1/4 Casa Diablo Mtn., Tungsten Hills

208
FISH SLOUGH FAULT
Holocene
Bailey, 1984c, 1984g
Crowder and Sheridan, 1972
EFZ: NW 1/4 Bishop, White Mtn. SW

209
WHITE MOUNTAINS FAULT ZONE (SOUTHERN PART)
Historic (1986 earthquake); Holocene; Late Quaternary
Bryan, W.A., 1984d, 1988c
Hart and others, 1989
Lienkaemper and others, 1987
EFZ: White Mtn. SE, NE 1/4 and SE 1/4 Bishop, NE 1/4 Big Pine, Tinehama Reservoir, Uhlmeyer Spring, Fish Springs

210
DEEP SPRINGS FAULT
Holocene; Late Quaternary
Bryan, W.A., 1988a, 1989a
Hart and others, 1989
Lee and others, 2001
Reheis and Sawyer, 1997
EFZ: Chocolate Mountain, Deep Springs Lake, Soldier Pass

211
NORTHERN DEATH VALLEY FAULT ZONE
(NORTH-CENTRAL SECTION DEATH VALLEY FAULT SYSTEM)
Holocene; Late Quaternary
Brogan and others, 1991
Bryan, W.A., 1988b
Machette and others, 2001b
Reheis and Noller, 1991
EFZ: Ubehebe Crater, Scottys Castle, East of Tin Mountain, Dry Bone Canyon, Fall Canyon, Mesquite Flat, Stovepipe Wells NE, Grotto Canyon, Beatty Junction
212

OWENS VALLEY FAULT
Holocene; Historic (1872 earthquake ground rupture)
Beanland and Clark, 1994
Brogan and others, 1991
Bryant, W.A., 1984c, 1984g, 1984h, 1988e
Hobbs, W.H., 1910
Knopf, A., 1916
Martel, S.J., 1989
Nelson, C.A., 1966
Ross, D.C., 1965
Slemmons and others, 2008
Hart and others, 1989
EFZ: Fish Springs, Tinemaha Reservoir, Blackrock, Independence, Bee Springs Canyon, Manzanar, Union Wash, Lone Pine, Bartlett, Olancha

212A

LONE PINE FAULT
Historic (1872 earthquake); Late Quaternary
Bryant, W.A., 1988e
Lubetkin and Clark, 1988
EFZ: Lone Pine

212B

BIRCH MOUNTAIN FAULT
Holocene
Clark, M.M., 1993

213

KINGS CANYON LINEAMENT
Age?
Antonen and others, 1974 (satellite imagery lineament)
Bartow, J.A., 1991 (p. 5-6)

214

ORTIGALITA FAULT
Holocene
Anderson and others, 1982
Clark and others, 1984 (5,000-15,000 yrs)
Hart, E.W., 1985b
Letts, W.R., 1982, 1985 (p. 97)
Manson, M.W., 1985a
EFZ: Mustang Peak, Crevison Peak, Pacheco Pass, San Luis Dam, Los Banos Valley, Ortigalita Peak, Ortigalita Peak NW

215

COYOTE CREEK FAULT
Quaternary
Bortugno and others, 1991
Dibblee, T.W., Jr., 1973b
Hart and others, 1981

216

SHANNON FAULT (INCLUDES BLOSSOM HILL FAULT)
Holocene; Quaternary
Bortugno and others, 1991
Hart and others, 1981
Hitchcock and others, 1994
Hitchcock and Kelso, 1999
McLaughlin, R.J., 1989
McLaughlin and others, 2001
Rubin and others, 2004

217

GROUND ‘FRACTURES’ ASSOCIATED WITH LOMA PRIETA EARTHQUAKE
Historic (1989 earthquake)
Plafker and Galloway, 1989

U.S. Geological Survey Staff, 1989
Bryant, W.A., 1991a
Aydin and others, 1992
EFZ: Los Gatos, Laurel

218

SAN GREGORIO FAULT
Holocene; creep
Bortugno and others, 1991
Brabb and Olson, 1986
Galehouse, J.S., 1992 (creep)
Hart and others, 1981
McCullough and Greene, 1990 (offshore)
Wagner and others, 2002c
EFZ: Ano Nuevo, Franklin Point

219

ASCENCION FAULT (OFFSHORE)
Quaternary
McCulloch and Greene, 1990

220

ZYANTE FAULT
Late Quaternary; Quaternary; Holocene
Bortugno and others, 1998b
Bortugno and others, 1991
Buchanan-Banks and others, 1978
Clark and others, 1984 (5,000-15,000 and 75,000-115,000 yrs)
Clary and others, 2001
Hall and others, 1974
Hart and others, 1981
McLaughlin and others, 2001
Pampeyan, E.H., 1979
EFZ: Watsonville East, Watsonville West

221

BEN LOMOND FAULT
Late Quaternary at southern end
Stanley and McCaffrey, 1983

222

SARGENT FAULT
Holocene; Historic (creep)
Bortugno and others, 1991
Bryant and others, 1981
Buchanan-Banks and others, 1978
Hart and others, 1981
McCullough and others, 2001
Sorg and McLaughlin, 1975
Prescott and Burford, 1976
EFZ: Watsonville East, Chittenden, San Felipe

223

FISH LAKE VALLEY FAULT ZONE
(NORTHERN SECTION DEATH VALLEY FAULT SYSTEM)
Holocene
Brogan and others, 1991
Bryant, W.A., 1988b
Machette and others, 2001b
Reheis and Noller, 1991
Sawyer, T.A., 1991
EFZ: Dyer, Station Peak, Indian Garden Creek, Chocolate Mtn., Sylvania Canyon, Horse Thief Canyon, Last Chance Mtn., Tule Canyon

224

CALAVERAS FAULT (SOUTHERN PART)
Historic (creep); Holocene; Late Quaternary
Bryant, W.A., 1979, 1981c, 1985c
Rogers, T.H., 1980
EFZ: Hollister, San Felipe
225
QUIEN SABE FAULT
Holocene; Late Quaternary
Bryant, W.A., 1985c
Hart and others, 1986
Dibblee and Rogers, 1975
EFZ: Three Sisters

226
O’NEILL FAULT SYSTEM
Late Quaternary
Bartow, J.A., 1991 (p. 9)
Bortugno and others, 1991
Clark and others, 1984 (100,000-600,000 yrs)
Letts, W.R., 1982
Letts, W.R., 1985 (p. 97,107,108)

227
PAICINES FAULT
SAN BENITO FAULT ZONE
Holocene; Late Quaternary, Quaternary
Bryant, W.A., 1985c
Dibblee, T.W., Jr., 1979a, 1979b, 1979c
Hart and others, 1986
EFZ: Tres Pinos, Paicines, Cherry Peak

228
VERGELES FAULT
Late Quaternary
Buchanan-Banks and others, 1978
Coppersmith, K.J., 1979
Clark and others, 1984 (75,000-115,000 yrs)
Wagner and others, 2002c

229
MONTEREY BAY FAULT ZONE (OFFSHORE)
Holocene; Quaternary
McCulloch and Greene, 1990
Wagner and others, 2002c

230
PALO COLORADO FAULT (OFFSHORE AND ONSHORE)
Quaternary; Holocene?
Bryant, W.A., 1985a
Clark and Rosenberg, 1999
Dibblee, T.W., Jr., 1974a
Hart, E.W., 1989
McCulloch and Greene, 1990 (offshore)
Wagner and others, 2002c

231
CYPRESS POINT FAULT
Quaternary (offsets Quaternary deposits offshore)
Clark and others, 1974
Rosenberg and Clark, 1994

232
NAVY FAULT
Quaternary
Clark and others, 1974, 1997
Hart and others, 1986
Wagner and others, 2002c

233
ORD TERRACE FAULT
Quaternary?
Clark and others, 1974, 1997
Hart and others, 1986
Wagner and others, 2002c

234
SAN ANDREAS FAULT ZONE (SAN JUAN BAUTISTA TO PRIEST VALLEY)
Historic (1906, 1890 earthquake ruptures)
Brown, R.D., Jr., 1970
Bryant, W.A., 1980c, 1985c
Clark, J.C., 1970
Dibblee, T.W., Jr., 1971a
Holden, E.S., 1898
Lawson and others, 1908
Wilson, I.F., 1943
EFZ: San Juan Bautista, Hollister, Paicines, Cherry Peak, Bickmore Canyon, San Benito, Topo Valley, Rock Spring Peak, Lonoak. Hepsedam Peak, Monarch Peak, Priest Valley

235
CHUPINES FAULT
Quaternary
Bowen, O.E., Jr., 1969
Clark and others, 1974, 1997, 2000
Hart and others, 1986

236
TULARCITOS FAULT
Quaternary; Late Quaternary (in part)
Clark and others, 1997
Dibblee, T.W., Jr., 1974a
Hart and others, 1986
McKittrick, M.A., 1987
Rosenberg, L.I., 1993

237
SUR FAULT
Quaternary
Hart and others, 1986
Hall, C.A., 1991
Bryant, W.A., 1985a
McCulloch and Greene, 1990

238
PALEO-SUBDUCTION ZONE (OFFSHORE)
Age?
McCulloch and Greene. 1990

239
RINCONADA FAULT ZONE
RELIZ FAULT
Late Quaternary
Clark and others, 2000
Dibblee, T.W., Jr., 1971a, 1976 (p. 36, 52, 53, late Quaternary)
Greene and others, 1973
Hart, E.W., 1976, 1985a
Hart and others, 1986 (Table 1 and Plate 1 -Espinosa and San Marcos segments)
Tinsley, J.C., III, 1975 (age of faulting p.149-155.)

240
FURNACE CREEK FAULT
Quaternary
Reheis and Noller, 1991

241
NUNEZ FAULT
Historic (1983 earthquake break )
Hart, E.W. 1984b
Hart and McJunkin, 1983
Rymer and others, 1990
EFZ: Alcalde Hills
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<td>CLOVIS FAULT</td>
<td>Pre-Quaternary</td>
<td>dePolo, C.M., 1983 (p. 2-4) Page and Leblanc, 1969</td>
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<td>INDEPENDENCE FAULT</td>
<td>Late Quaternary; Holocene</td>
<td>Bryant, W.A., 1989b Gillespie, A.A., 1982 Clark and others, 1984 (10,500-18,000 yrs) Hart and others, 1989 EFZ: Kearsarge Peak, Mt. Williamson, Manzanar, Mt. Langley, Lone Pine</td>
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<td>HUNTER MOUNTAIN FAULT</td>
<td>Holocene; Late Quaternary</td>
<td>Bryant, W.A., 2009 (aerial photographic interpretation) Burchfiel and others, 1987 Zellmer, J.T., 1980</td>
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<td>244A</td>
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<td>KEANE WONDER FAULT</td>
<td>Quaternary</td>
<td>Reheis and Noller, 1991</td>
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<td>ASH HILL FAULT</td>
<td>Holocene; Late Quaternary</td>
<td>Bryant, W.A., 1989c Hart and others, 1989 EFZ: Panamint Springs, Revenue Canyon, Maturango Peak NE and SE</td>
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<td>PANAMINT VALLEY FAULT</td>
<td>Holocene; Late Quaternary; Quaternary</td>
<td>Bryant, W.A., 1989c Clark and others, 1984 (8,000-20,000 yrs) Hsu and Wagner, 1990 Smith, R.S.U., 1979 Hart and others, 1989 Zhang and others, 1990 EFZ: The Dunes, Panamint Butt, Nova Canyon, Emigrant Pass, Maturango Peak NE, Jail Canyon, Ballarat, Manly Fall, Copper Queen Canyon, Sourdough Spring, Wingate Pass</td>
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<td>NOPAH FAULT (AND YOUNG FAULTS IN THE RESTING SPRING RANGE)</td>
<td>Late Quaternary and/or Holocene</td>
<td>McKittrick, M.A., 1988</td>
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<td>SIERRA NEVADA FAULT ZONE (HAIWEE RESERVOIR AREA)</td>
<td>Holocene; Late Quaternary</td>
<td>Wills, C.J., 1989b</td>
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<td>KERN CANYON FAULT</td>
<td>Holocene (formerly pre Quaternary)</td>
<td>Kelson and others, 2009 Kozaci and others, 2009</td>
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<td>GOLD HILL THRUST FAULT</td>
<td>Pre-Quaternary</td>
<td>Sims, J.D., 1988, 1990</td>
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ARROYO LAGUNA FAULT
Late Quaternary
Buchanan-Banks and others, 1978
Hall and others, 1979
Manson, M.W., 1985c

STRUCTURAL DISCONTINUITY (OFFSHORE)
Age?
McCulloch, D.S., 1989b (Discontinuity separating differing Neogene structural domains. May indicate discontinuities between basement rocks)

ARROYO DELOSO FAULT
Late Quaternary
Buchanan-Banks and others, 1978
Hall and others, 1979
Pacific Gas and Electric Company, 1988

OCEANIC FAULT
Late Quaternary
Buchanan-Banks and others, 1978
Hall and others, 1979

WHITE CANYON FAULT
Holocene
Sims, J.D., 1988
Sims and others, 1991

RED HILLS FAULT
Holocene
Sims and others, 1991

GILLIS CANYON FAULT
Holocene
Sims and others, 1991

POND FAULT
Historic, with creep caused by groundwater withdrawal
Holzer, T.L., 1980
Smith, T.C., 1983c
EFZ: Pond

KERN FRONT FAULT
NEW HOPE FAULT
PREMIER FAULT
Historic, actively creeping fault triggered by fluid withdrawal;
Quaternary
Bartow, J.A., 1984
Castle and others, 1983
Hart and others, 1984
Smith, T.C., 1983a
EFZ: Oldale, North of Oldale

KERN GORGE FAULT
Late Quaternary
Bartow, J.A., 1984
Hart and others, 1984

SIERRA NEVADA FAULT (INYOKERN AREA)
Holocene; Late Quaternary
Hsu and Wagner, 1990

Roquemore, G.A., 1981
Wills, C.J., 1988a
Hart and others, 1989
EFZ: Inyokern

LITTLE LAKE FAULT
Holocene; Late Quaternary; Historic (1982 earthquake cracks)
Hsu and Wagner, 1990
Roquemore, G.R., 1981
Roquemore and Zellmer, 1983
Wills, C.J., 1988a
Hart and others, 1989
EFZ: Little Lake, Volcano Peak, Pearsonville, Inyokern, Ridgecrest North, Ridgecrest South

TANK CANYON FAULT
Holocene
Clark and others, 1984 (5,000-10,000 yrs)
Hsu and Wagner, 1990
Smith and others, 1968

BROWN MOUNTAIN FAULT
Holocene
Bryant, W.A., 1989c
Clark, M.M., 1973
Hart and others, 1989
EFZ: Hidden Spring, Wingate Pass

GARLOCK FAULT ZONE
Holocene; late Quaternary
Clark and others, 1984
Hsu and Wagner, 1990
Pampeyan and others, 1988
EFZ: Cantil, Garlock, Saltdate SE, El Paso Peaks, Klinker Mtn., Spangler Hills East, SE 1/4 Searles Lake, NW 1/4 Cuddeback Lake, SW 1/4 and SE 1/4 Wingate Pass, SW 1/4 and SE 1/4 Quail Mountains, SW 1/4 and SE 1/4 Leach Lake, SW 1/4 Avawatz Pass

CRACKS NEAR GARLOCK FAULT
Historic
Zellmer and others, 1985
Hart and others, 1989
EFZ: Spangler Hills East

GROUND BREAKS IN GARLOCK FAULT ZONE (FREMONT VALLEY)
Holocene; Historic (owing to ground water withdrawal)
Pampeyan and others, 1988
Hart and others, 1989

EL PASO FAULT
Late Quaternary
Clark, M.M., 1973
Dibblee, T.W., Jr., 1952
Hsu and Wagner, 1990
Hart and others, 1989
Nitchman, S.P., 1989

SURFACE BREAK ON GARLOCK FAULT ZONE
Historic (1952 earthquake)
Clark, M.M., 1973
275
WHEELER RIDGE FAULT
Holocene; late Quaternary
  Hart and others, 1984
  Keller and others, 1989
  Smith, T.C., 1984c
  EFZ: Conner SW, Eagle Rest Peak

275A
WHITE WOLF FAULT
Historic (1952)
  Buwalda and St. Amand, 1955
  EFZ: SE1/4 and SW1/4 Breckenridge Mtn., Bear Mtn.,
  Arvin, Mettler, Coal Oil Canyon

275B
GROUND BREAKS (UNNAMED) OF 1952 ARVIN-
TEHACHAPI EARTHQUAKE
Historic (1952); Holocene; late Quaternary
  Hart and others, 1984
  Smith, T.C., 1984d
  EFZ: Oil Center, Rio Bravo Ranch, Edison

276
BUENA VISTA FAULT
Historic (creep owing to oil withdrawal)
  Hart and others, 1984
  Wilt, J.W., 1958
  EFZ: Taft

277
CENTRAL OWENS LAKE FAULT
(SOUTHERN OWENS VALLEY FAULT ZONE)
Historic; Holocene
  Siemmons and others, 2008

278
SAN ANDREAS FAULT ZONE (PRIEST VALLEY TO
CUYAMA)
earthquake ruptures)
  Brown and others, 1967
  Brown, R.D., Jr., 1970
  Byerly and Wilson, 1935
  Dibblee, T.W., Jr., 1971a, 1972a, 1972b, 1972c, 1974b
  Lawson and others, 1908
  Manson, M.W., 1985b
  Richter, C.F., 1958
  Rymer and others, 2006
  Sims, J.D., 1990
  Sims and Hamilton, 1991
  Townley and Allen, 1939
  Vedder and Wallace, 1970
  Vedder and others, 1966, 1984
  EFZ: Priest Valley, Slack Canyon, Smith Mountain,
  Stockdale Mtn., Parkfield, Cholame Hills, Cholame
  Valley, Cholame, Orchard Peak, Holland Canyon,
  Packwood Creek, La Panza NE, Las Yeguas Ranch,
  Simmler, McKittrick Summit, Painted Rock, Panorama
  Hills, Wells Ranch, Elkhorn Hills, Cuyama

279
SAN JUAN FAULT
Quaternary
  Buchanan-Banks and others, 1978
  Dibblee, T.W., Jr., 1972a, 1974b
  Pacific Gas and Electric Company, 1988
  Sims and Hamilton, 1991
  Vedder and others, 1986c, 1986d

280
LA PANZA FAULT
Quaternary
  Buchanan-Banks and others, 1978
  Dibblee, T.W., Jr., 1972e
  Pacific Gas and Electric Company, 1988

281
CAMBRIA FAULT
Late Quaternary
  Hall and others, 1979
  Pacific Gas and Electric Company, 1988

282
EDNA FAULT ZONE
Quaternary
  Buchanan-Banks and others, 1978
  Hall, C.A., 1973
  Hall and others, 1979
  Pacific Gas and Electric Company, 1988

283
SAN LUIS BAY FAULT
Late Quaternary
  Hall, C.A., 1982
  Lettis and others, 2004
  Pacific Gas and Electric Company, 1988 (p. 3-16)

284
SAN MIGUELITO FAULT
Pre-Quaternary
  Buchanan-Banks and others, 1978
  Hall and others, 1979
  Pacific Gas and Electric Company, 1988 (p. 3-16)

285
LOS OSOS FAULT ZONE
Holocene; late Quaternary
  Hall, C.A., 1973
  Hall and Corbató, 1967
  Hall and others, 1979
  Pacific Gas and Electric Company, 1988
  Treiman, J.A., 1989a
  Hanson and others, 2004
  Hart and others, 1989
  Lettis and Hall, 1994
  Hitchman, S.P., 1988
  EFZ: San Luis Obispo

286
WILMER AVENUE FAULT
Late Quaternary; Holocene?
  Pacific Gas and Electric Company, 1988 (p. 3-16)
  Lettis and others, 2004
  Hitchman, S.P., 1988

287
HOSGRI FAULT ZONE (OFFSHORE)
Quaternary; Holocene
  Hanson and others, 2004
  Hoskins and Griffiths, 1971
  McCulloch, D.S., 1989b

288
OCEANO FAULT
Late Quaternary
  Buchanan-Banks and others, 1978
  Lettis and others, 2004
  Pacific Gas and Electric Company, 1988 (p. 3-16)
279 WEST HUASNA FAULT
Late Quaternary
Buchanan-Banks and others, 1978
Dibblee, T.W., Jr., 1994c
Hall, C.A., 1973
Hall and Corbató, 1967
Hall and others, 1979
Pacific Gas and Electric Company, 1988

280 EAST HUASNA FAULT
Quaternary
Dibblee, T.W., Jr., 1994b
Hall and Corbató, 1967
Vedder, J.G., 1989 – written communication

281 SOUTH CUYAMA FAULT
Quaternary
Dibblee, T.W., Jr., 1971c
Buchanan-Banks and others, 1978
Pacific Gas and Electric Company, 1988
Vedder and Repenning, 1975
Vedder and others, 1986c, 1988, 1989b, 1994

282 SUR -NACIMIENTO FAULT ZONE OF VEDDER, HOWELL, AND MCLLEAN
Pre-Quaternary
Vedder and others, 1986a, 1988

283 SANTA MARIA FAULT
Quaternary
Buchanan-Banks and others, 1978
Pacific Gas and Electric Company, 1988
Sylvester and Darrow, 1979 (p. 396)

284 BRADLEY CANYON FAULT
Quaternary
Buchanan-Banks and others, 1978
Hart and others, 1986
Pacific Gas and Electric Company, 1988
Sylvester and Darrow, 1979

285 CASMALIA FAULT
Late Quaternary
Clark, D.G., 1990
Dibblee, T.W., Jr., 1989a, 1989b, 1994a
Gray, L.D., 1980
Hanson and others, 2004
Pacific Gas and Electric Company, 1988
Sylvester and Darrow, 1979

286 LIONS HEAD FAULT
Late Quaternary
Dibblee, T.W., Jr., 1989a
Hanson and others, 2004
Hart and others, 1986
Pacific Gas and Electric Company, 1988
Sylvester and Darrow, 1979
Clark, D.G., 1990

296A ORCUTT OIL FIELD FAULTS (CASMALIA FAULT ZONE)
Quaternary; Late Quaternary
Buchanan-Banks and others, 1978
Dibblee, T.W., Jr., 1989a

297 SANTA LUCIA BANK FAULT (OFFSHORE)
Quaternary
McCulloch, D.S., 1989b

298 PALEO-SUBDUCTION ZONE (OFFSHORE)
Age?
McCulloch, D.S., 1989b

299 SANTA YNEZ RIVER FAULT
Late Quaternary?
Buchanan-Banks and others, 1978
Dibblee, T.W., Jr., 1993c
Pacific Gas and Electric Company, 1988
McCulloch, D.S., 1989b
Sylvester and Darrow, 1979

300 HONDA FAULT
Late Quaternary?
Pacific Gas and Electric Company, 1988
Sylvester and Darrow, 1979

301 PACIFICO FAULT
Late Quaternary?
Dibblee, T.W., Jr., 1988a, 1988b, 1988d
Hart and others, 1977
Pacific Gas and Electric Company, 1988
Sylvester and Darrow, 1979
Ziony and others, 1974

302 LOS ALAMOS FAULT
Holocene; Late Quaternary
Guptill and others, 1981
Hart and others, 1986
EFZ: Zaca Creek

303 GAREY FAULT
Quaternary
Buchanan-Banks and others, 1978
Hall, C.A., Jr., 1981
Hart and others, 1986
Pacific Gas and Electric Company, 1988

304 FOXEN CANYON FAULT
SANTA MARIA RIVER FAULT
Late Quaternary
Dibblee, T.W., Jr., 1994a, 1994b
Buchanan-Banks and others, 1978
Hall, C.A., Jr., 1981
Lettis and others, 2004
Pacific Gas and Electric Company, 1988
Sylvester and Darrow, 1979

305 BASELINE FAULT
Late Quaternary
Guptill and others, 1981
Hart and others, 1977
Sylvester and Darrow, 1979
Yerkes and Lee, 1987 (Plate 4.1)
LITTLE PINE FAULT
Late Quaternary (northwestern part); Quaternary and Pre-
Quaternary (southeastern part)
Buchanan-Banks and others, 1978
Dibblee, T.W., Jr., 1987a, 1993a, 1993b
Hall, C.A., Jr., 1981
Pacific Gas and Electric Company, 1988
Sylvester and Darrow, 1979
Vedder and Stanley, 2001

BIG PINE FAULT
(WESTERN SECTION OF BIG PINE FAULT ZONE)
Quaternary
Vedder and others, 1973, 1995
Vedder and Stanley, 2001

OZENA FAULT
Quaternary
Dibblee, T.W., Jr., 1971c
Minor, S.A., 2004
Vedder and Repenning, 1975
Yerkes and Lee, 1987 (Plate 4.1)

PLEITO FAULT
Holocene; Quaternary
Bortugno, E.J., 1986
Clark and others, 1984 (280-8,500 and 18,000-30,000 yrs.)
Dibblee, T.W., Jr., 1973a
Hall, N.T., 1984
Hart and others, 1984
McGill, 1951
Smith, T.C., 1984c
EFZ: Pleito Hills, Grapevine

GARLOCK FAULT, SOUTH BRANCH
Holocene
Clark, M.M., 1973
Clark and others, 1984
Crowell, J.C., 1952
Wiese, J.H., 1950
EFZ: Lebec, Winters Ridge, Pastoria Creek, Liebre
Twins, Tyferhorse Canyon, Tehachapi South, Monolith,
Mojave, NW 1/4 and NE 1/4 Mojave, Cinco

SAN ANDREAS FAULT ZONE (CUYAMA TO PALMDALE)
Historic (1857, 1916 earthquake ruptures)
Wood, H.O., 1955
Barrows and others, 1985
Bonilla, M.G., 1970
Carman, M.F., 1964
Dibblee, T.W., Jr., 1971b
Agnew and Sieh, 1978
Sieh, K.E., 1978b
Sierveld, F.G., 1957
Branner, J.C., 1917
Ross, D.C., 1969
Van Amring, J.H., 1957
Vedder and Wallace, 1970
EFZ: Cuyama, Ballinger Canyon, Maricopa, Santiago
Creek, Sawmill Mountain, Cuddy Valley, Frazier Mtn.,
Lebec, La Liebre Ranch, Liebre Mtn., Burnt Peak, Lake
Hughes, Del Sur, Sleepy Valley, Ritter Ridge, Palmdale

UNNAMED FAULT NEAR FAIRMONT RESERVOIR
ADJACENT TO SAN ANDREAS FAULT
Holocene
Dibblee, T.W., Jr., 1961
EFZ: Lake Hughes

UNNAMED FAULT AT EAST END OF BOUQUET CANYON
Holocene
Barrows and others, 1985
Kahle and others, 1977
EFZ: Sleepy Valley

CLEARWATER FAULT
Late Quaternary
Smith, T.C., 1977a
Dibblee, T.W., Jr., 1997b
Smith, T.C., 1978

SAN GABRIEL FAULT (WESTERN PART)
Late Quaternary; Holocene near Castaic
Cotton, W.R., 1986
Kahle, J.E., 1986
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 55 and Fig.11)
EFZ: Newhall

ALAMO MOUNTAIN THRUST
DRY CREEK THRUST
FRAZIER MOUNTAIN THRUST
Quaternary
Yerkes and Lee, 1987 (Plate 4.1)
Crowell, J.C., 1954
Jennings and Strand, 1969
Weber, F.H., Jr., 1982
Weber and others, 1976

SAN ANDREAS FAULT ZONE (CENTRAL SECTION BIG PINE FAULT
ZONE)
Late Quaternary
Minor, S.A., 1999, 2004
Hart and others, 1977
Vedder and others, 1973
Yerkes and Lee, 1987 (Plate 4.1)

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Dibblee, T.W., Jr., 1985, 1987g, 1996a, 1996b
Minor, S.A., 2004
Vedder and others, 1973
Yerkes and Lee, 1987 (Plate 4.1)
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SANTA YNEZ FAULT
Late Quaternary; Holocene near Lake Cachuma
Clark and others, 1984 (10,000-70,000 yrs)
Dibblee, T.W., Jr., 1985, 1986a, 1986b, 1986c, 1987a,
1987c, 1987d, 1987g, 1988b, 1988c, 1998d, 1996a,
1996b
Darrow and Sylvester, 1984
Yerkes and Lee, 1987 (Plate 4.1)
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 53)

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SANTA YNEZ FAULT, SOUTH BRANCH
Late Quaternary
Clark and others, 1984 (5,000-15,000 yrs)
Dibblee, T.W., Jr., 1988b, 1988d,
Hart and others, 1977
McCulloch, D.S., 1989b
Yerkes and Lee, 1987 (Plate 4.1)

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MORE RANCH FAULT
(MISSION RIDGE FAULT SYSTEM)
Late Quaternary
Clark and others, 1984 (40,000-60,000 yrs)
Gurrola, L.D., 2006
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 53)

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LAVIGIA FAULT
Late Quaternary
Gurrola, L.D., 2006
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 53)

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SAN JOSE FAULT (SANTA BARBARA COUNTY)
Late Quaternary
Dibblee, T.W., Jr., 1987h
Gurrola, L.D., 2006
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 53)

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MESA -RINCON CREEK FAULT ZONE
Late Quaternary
Dibblee, T.W., Jr., 1986c, 1987d
Gurrola, L.D., 2006
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 53)

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Late Quaternary
Dibblee, T.W., Jr., 1986c, 1987d
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 51)

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MISSION RIDGE FAULT
ARROYO PARIDA FAULT
(MISSION RIDGE FAULT SYSTEM)
Late Quaternary
Clark, M.N., 1982
Gurrola, L.D., 2006
Clark and others, 1984 (28,500-39,500 yrs)
Dibblee, T.W., Jr., 1986c, 1987d
Rockwell and others, 1984
Weber and others, 1976
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 53)

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SHEPARD MESA FAULT
Late Quaternary
Dibblee, T.W., Jr., 1987d
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 53)

329
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Late Quaternary
Clark, M.N., 1982
Dibblee, T.W., Jr., 1987f
Hart and others, 1986 (p. 26 and Plate 1)
Kahle, J.E., 1985
Rockwell and others, 1984
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 54)

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FAULTS NEAR OAKVIEW AND MEINERS OAKS
Holocene; Late Quaternary
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Hart and others, 1986 (p. 25 and Plate 1)
Kahle, J.E., 1985
Rockwell and others, 1976
Yeats and others, 1987 (p. 161)
Yerkes and Lee, 1987 (p. 77 and Plate 4.1)
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EFZ: Matilija

331
RED MOUNTAIN FAULT
Late Quaternary; Holocene
Clark and others, 1984 (45,000-60,000 yrs)
Dibblee, T.W., Jr., 1988e
Smith, T.C., 1977b
Tan and others, 2003a
Kamerling, M.J., 2000
Weber and others, 1976
Yeats and others, 1987 (p. 161)
Yerkes and Lee, 1987 (p. 77 and Plate 4.1)
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 54)
EFZ: Pitas Point

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JAVON CANYON FAULT
Holocene
Sarna-Wojcicki and others, 1987
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 54)
Treiman, J.A., 1989c
Hart and others, 1991
EFZ: Pitas Point

333
SANTA ROSA ISLAND FAULT
Late Quaternary; Quaternary
Clark and others, 1984 (45,000-700,000 yrs)
McCulloch, D.S., 1989b
Vedder and others, 1987
Ziony and Yerkes, 1985 (p. 56)

334
SANTA CRUZ ISLAND FAULT
Late Quaternary; Holocene; Quaternary
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Vedder and others, 1986b (offshore)
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Ziony and Jones, 1989 (p. 3)

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Tan and others, 2004a, 2005
Treiman, J.A., 1990a (onshore)
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EFZ: Fillmore, Moorpark

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Vedder and others, 1986b (offshore)
Yerkes and Lee, 1987 (p. 77-78)
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EFZ: Saticoy, Ventura

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LION CANYON FAULT
Late Quaternary
Dibblee, T.W., Jr., 1987e, 1987f
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Hart and others, 1986 (p. 20 and Plate 1)
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Tan and Irvine, 2005b
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EFZ: Santa Paula Peak

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Holocene; Late Quaternary
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SANTA FELICIA FAULT
Late Quaternary?
Yeats and others, 1986 (p.1 and Plate II)
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DEL VALLE FAULT
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SANTA SUSANA FAULT
Late Quaternary; Historic (1971 rupture accompanying San
Fernando earthquake)
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Lung and Weck, 1987 (p. 69)
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Holocene
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EFZ: Newbury Park, Moorpark, Simi Valley West, Simi
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UNNAMED FAULTS NEAR MOORPARK
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EFZ: Camarillo, Santa Paula

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Late Quaternary or Holocene
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Allen and others, 1975
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SAN FERNANDO FAULT
Historic (1971 earthquake ruptures)
Allen and others, 1975
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U.S. Geological Survey, 1971
Weber, F.H., Jr., 1982
EFZ: San Fernando, Sunland, Oat Mountain

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SIERRA MADRE FAULT ZONE
Holocene; Late Quaternary (Holocene -western part between Big Tujunga and Dunsmore canyons; late Quaternary -eastern part)
Bortugno, E.J., 1986
Clark and others, 1984 (1,000-11,000 and 200,000-500,000 yrs)
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Morton and Miller, 2003
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EFZ: Sunland, Burbank

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Dibblee, T.W., Jr., 1968b
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EFZ: Opal Mountain, Superior Lake

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Bortugno, E.J., 1987
Hart, E.W., 1994
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EFZ: Yermo, Harvard Hill, Newberry Springs, Troy Lake, Silver Bell Mine

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UNNAMED FAULTS NEAR TROY LAKE
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EFZ: Harvard Hill, Newberry Springs

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EFZ: Minneola, Ord Mountain, Camp Rock Mine, Fry Mountains, Iron Ridge

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419  HIDALGO FAULT
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EFZ: Yucca Valley North

424A  EUREKA PEAK FAULT
Historic (1992 earthquake rupture); Holocene
Treiman, J.A., 1992
Rymer, M.J., 1993
EFZ: Joshua Tree South

424B  BURNT MOUNTAIN FAULT
Historic (1992 earthquake ruptures); Holocene
Treiman, J.A., 1992
Rymer, M.J., 1993
EFZ: Yucca Valley South, Yucca Valley North

425  PINTO MOUNTAIN FAULT
Holocene; Late Quaternary
Bortugno, E.J., 1986
Dibblee, T.W., Jr., 1964b, 1967a
Hart and others, 1988
Wesnousky, S.G., 1986

426  SAN GORGONIO MOUNTAIN FAULT
Late Quaternary
Bortugno, E.J., 1986
Dibblee, T.W., Jr., 1964b, 1967a
Wesnousky, S.G., 1986
427
MILL CREEK FAULT (NORTH BRANCH SAN ANDREAS FAULT)
Late Quaternary
Bortugno, E.J., 1986
Dibblee, T.W., Jr., 1964b, 1967a, 1974c
Hope, R.A., 1969
Matti and others, 1985, 1992
Miller and Matti, 2001
Morton and Matti, 2001b
Smith, R.A., 1959
Treiman, J.A., 1994b
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 48)
EFZ: SW 1/4 Morongo Valley, SE 1/4 and SW 1/4 San Gorgonio Mtn., Yucaipa, Keller Peak, Harrison Mountain

427A
SAN ANDREAS FAULT (CAJON CANYON TO BURRO FLATS)
Holocene
Bortugno, E.J., 1986
Burnett and Hart, 1994
Dibblee, T.W., Jr., 1964b, 1974c
Hope, R.A., 1969
Miller and Matti, 2001
EFZ: Cabazon, SE 1/4 and SW 1/4 San Gorgonio, Yucaipa, Redlands, Harrison Mountain, San Bernardino North, Devore

428
CRAFTON HILLS FAULT ZONE
Holocene; Late Quaternary
Bortugno, E.J., 1986
Hart and others, 1978
Matti and others, 2003b
Morton, D.M., 1978c
Smith, D.P., 1977
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 58)
EFZ: Yucaipa

429
RIALTO-COLTON FAULT
Late Quaternary
Morton and Miller, 2003
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 49)

430
INFERRRED FAULT NEAR FONTANA
Possibly Late Quaternary; numerous closely aligned small earthquakes
Morton, D.M., 1976
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 58)

431
CHINO FAULT
Holocene; Late Quaternary
Treiman, J.A., 2002b
Ziony and Jones, 1989

432
CENTRAL AVENUE FAULT
Late Quaternary?
Greenwood and Morton, 1991
Morton, D.M., 1976
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 49)

433
FAULTS IN WEST COYOTE HILLS
Late Quaternary; 1968 surface rupture probably related to oil withdrawal
Yerkes, R.F., 1972
Tan and others, 1984 (p. 29-30)
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 50)
EFZ: La Habra

434
POTRERO FAULT
INGLEWOOD FAULT
AVALON COMPTON FAULT
(NEWPORT-INGLEWOOD FAULT ZONE)
Holocene; Late Quaternary; surface faulting (creep) on Inglewood Fault since 1957 due to oil and gas withdrawal
Barrows, A.G., 1974 (p. 18 and Plate 1)
Bryant, W.A., 1985e, 1988d
Hart and others, 1986 (p. 21-23, Plate 1)
Poland and others, 1959
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 51)
EFZ: Beverly Hills, Hollywood, Inglewood, Torrance

435
CHARNOCK FAULT
OVERLAND AVENUE FAULT
Late Quaternary
Castle, R.O., 1960
Poland and others, 1959
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 52)

436
REDONDO CANYON FAULT (OFFSHORE)
Holocene
Clarke and others, 1984 (10,000 yrs. offshore)
Darrow and Fischer, 1983
Vedder and others, 1986b (offshore)
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 52)

436A
SAN PEDRO BASIN FAULT ZONE (OFFSHORE)
Quaternary; Late Quaternary?
Vedder and others, 1986b
Ziony and Jones, 1989 (late Quaternary)

437
PALOS VERDES FAULT
Late Quaternary; Holocene offshore, in part
Clark and others, 1984 (10,000 yrs. offshore)
Darrow and Fischer, 1983
Vedder and others, 1986b (offshore)
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 52)

438
CABRILLO FAULT
Late Quaternary onshore; Holocene offshore
Bryant and Raub, 1986
Cleveland, G.B., 1976
Vedder and others, 1986b
Ziony and Jones, 1989

439
SOUTH BRANCH FAULT
(NEWPORT-INGLEWOOD FAULT ZONE)
Late Quaternary
Bryant, W.A., 1985b
CDWR, 1966
Hart and others, 1986 (p. 24 and Plate 1)
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 51)
440
NORTH BRANCH FAULT
(NEWPORT-INGLEWOOD FAULT ZONE)
Holocene
Bryant, W.A., 1985b, 1988d
Guptill and Heath, 1981
Hart and others, 1986 (p. 24 and Plate 1)
Woodward-Clyde Consultants, 1987a
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 51)
EFZ: Newport Beach, Seal Beach, Los Alamitos

441
CHERRY HILL FAULT
RESERVOIR HILL FAULT
SEAL BEACH FAULT
(NEWPORT-INGLEWOOD FAULT ZONE)
Holocene
Bryant, W.A., 1985b, 1985e, 1988d
Hart and others, 1986 (p. 21-24, Plate 1)
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 51)
EFZ: Long Beach. Los Alamitos. Seal Beach

442
LOS ALAMITOS FAULT
Late Quaternary
Ziony and Jones, 1989

443
NORWALK FAULT?
Age?
Hill, M.L., 1989 (no good evidence for fault)
Tan and others, 1984 (p. 12, 13, 28, 29)
Yerkes, R.F., 1972 (p. 31)
Ziony and Jones, 1989 (p. 14)
Ziony and Yerkes, 1985 (p. 50)

444
WHITTIER FAULT
(ELSIMORE FAULT ZONE)
Late Quaternary; Holocene
Hart, E.W., 1979b
Treiman, J.A., 1991a (Holocene age)
Greenwood and Morton, 1991
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 49)
Rockwell, T.K., 1990 (Holocene age)
Hart and others, 1991
EFZ: Yorba Linda, Prado Dam. El Monte, La Habra

445
PERALTA HILLS FAULT
Late Quaternary; Holocene
Greenwood and Morton, 1991
Morton and others, 1999
Wills, C.J., 1988b
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 50)
Hart and others, 1989

446
FRESNO FAULT
TIN MINE FAULT
MAIN STREET FAULT
(ELSIMORE FAULT ZONE)
Holocene; Late Quaternary
Weber, F.H., Jr., 1977
Treiman, J.A., 2002c
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 49)
EFZ: Corona South

447
CLAREMONT FAULT
(SAN JACINTO FAULT ZONE)
454
GARNET HILL FAULT
(SAN ANDREAS FAULT ZONE)
Holocene; Late Quaternary
Treiman, J.A., 1994b
Matti and others, 1985, 1992
EFZ: Whitewater

455
SAN GORGONIO PASS FAULT ZONE
Holocene
Treiman, J.A., 1994b
Matti and others, 1985
Ziony and Jones, 1989
EFZ: Cabazon, Whitewater

456
BEAUMONT PLAIN FAULT ZONE
Late Quaternary
Hart and others, 1979
Matti and others, 1985 (p. 14)
Riverside County, 2001
Ziony and Jones, 1989

457
CASOLA LOMA FAULT
Holocene; creep since 1939 probably owing to groundwater withdrawal; 1899?
Hart, E.W., 1979a
Kahle, J.E., 1987
Morton, D.M., 1978b
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 49)
EFZ: El Casco, Lakeview, San Jacinto

458
HOT SPRINGS FAULT
(SAN JACINTO FAULT ZONE)
Late Quaternary; Holocene (at north end)
Riverside County, 2001
Hart, E.W., 1979a
Matti and others, 1985
Sharp, R.V., 1967
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 49)
EFZ: San Jacinto, NE 1/4 Hemet, NW 1/4 Idyllwild

459
CLARK FAULT
(SAN JACINTO FAULT ZONE)
Holocene; Quaternary
Hart, E.W., 1979a
Riverside County, 2001
Sharp, R.V., 1972
Janecke and others, 2008
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 49)
EFZ: SW 1/4 and SE 1/4 Idyllwild, Bucksnort Mtn., Collins Valley, Clark Lake NE, Clark Lake, Fonts Point

460
WILDOMAR FAULT
(ELSIÑORE FAULT ZONE)
Holocene
Greenwood, R.B., 1992
Hart and others, 1979 (Table 1)
Kennedy, M.P., 1977 (p. 9 and Plate 1)
Morton and Weber, 2003
Saul, R.B., 1979
Smith, D.P., 1979e
Wills, C.J., 1988c
Ziony and Jones, 1989
Hart and others, 1989
EFZ: Elsinore, Wildomar, Murrieta, Temecula, Pechanga, Pala

461
GLEN IVY NORTH FAULT
(ELSIÑORE FAULT ZONE)
Holocene
Greenwood, R.B., 1992
Hart and others, 1979 (Table 1)
Morton and Weber, 2003
Smith, D.P., 1979e
Treiman, J.A., 2002c
Weber, F.H., Jr., 1977
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 50)
EFZ: Corona South, Lake Mathews, Alberhill

462
GLEN IVY SOUTH FAULT
(ELSIÑORE FAULT ZONE)
Holocene; Late Quaternary in southeastern part
Greenwood, R.B., 1992
Smith, D.P., 1979e
Weber, F.H., Jr., 1977
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 50)
EFZ: Alberhill, Lake Mathews

463
PELICAN HILL FAULT
Late Quaternary
Clark and others, 1986 (age, p. 46)
Miller and Tan, 1976
Tan and Edgington, 1976
Vedder, J.G., 1975
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 51)

464
UNNAMED FAULTS ON CATALINA ISLAND
Pre-Quaternary
Boundy-Sanders and others, 1990

465
NEWPORT INGLEWOOD-ROSE CANYON FAULT ZONE
(OFFSHORE)
Quaternary
Clarke and others, 1987
Ryan and others, 2009

466
CRISTIANITOS FAULT ZONE (OFFSHORE)
Quaternary
Clarke and others, 1987

467
WILLARD FAULT
(ELSIÑORE FAULT ZONE)
Late Quaternary; Holocene
Greenwood, R.B., 1992
Hart and others, 1979 (Table 1 and Plate 1)
Kennedy, M.P., 1977, 2000
Kennedy and Morton, 2003
Rockwell, T.K., 1990 (partly Holocene)
Morton and Weber, 2003
Tan and Kennedy, 2000
Wills, C.J., 1988c
Ziony and Jones, 1989
EFZ: Murrieta
MURRIETTA HOT SPRINGS FAULT
Late Quaternary; Holocene?
Greenwood and Morton, 1991
Kennedy, M.P., 1977 (p. 10 and Plate 1)
Kennedy and Morton, 2003
Rockwell, T.K., 1990 (probably Holocene)
Ziony and Jones, 1989
Ziony and Yerkes, 1985 (p. 50)

WOLF VALLEY FAULT AND GROUND CRACKS
Holocene; Late Quaternary
Kennedy, M.P., 1977 (p. 9-10 and Plate 1)
Tan and Kennedy, 2000
Wills, C.J., 1986c
Ziony and Yerkes, 1985 (p. 50)
Hart and others, 1989
EFZ: Pechanga

FAULTS FLANKING AGUA TIBIA MOUNTAIN (PART OF ELSINORE FAULT)
Late Quaternary?
Kennedy, M.P., 2000
Vaughan and Rockwell, 1986 (p. 188)
Ziony and Jones, 1989

BUCK RIDGE FAULT
Late Quaternary
EFZ: Clark Lake, Collins Valley, SW 1/4 Palm Desert, SE 1/4 Idyllwild

SAN ANDREAS FAULT ZONE (INDIO TO SALTON SEA)
Holocene; Historic (1979, 1968 ground ruptures; 1992, 1999 triggered creep)
Babcock, E.A., 1969
Bryant, W.A., 2010
CDWR, 1964
Dibblee, T.W., 1972
Sharp, R.V., 1972
Sharp and Clark, 1972
EFZ: Bucksnort Mtn., Collins Valley, Clark Lake NE, Borrego Palm Canyon, Clark Lake, Borrego Sink, Borrego Mountain, Shell Reef, Borrego Mountain SE, Harpers Well

IONE FAULT
(FOOTHILLS FAULT SYSTEM)
Late Quaternary
Page and Sawyer, 1994

UNNAMED FAULTS
Late Quaternary; Holocene?
Clark, M.M., 1982, and written communication 8/15/1989
Kahle, J.E., 1988a

EARTHQUAKE VALLEY FAULT
Holocene; late Quaternary
Steely and others, 2009
Clark, M.M., 1982, and written communication, 8/15/1989
Smith, D.P., 1979a
Hart and others, 1979
EFZ: Earthquake Valley, Julian, Ranchita

ELSINORE FAULT
(JULIAN SECTION ELSINORE FAULT ZONE)
Holocene; Late Quaternary
Clark, M.M., 1982
Hart and others, 1979
Kennedy, M.P., 1977
Smith, D.P., 1979a
484
CORONADO BANK FAULT ZONE (OFFSHORE CORONADO BANK-PALOS VERDES SECTION)
Holocene; Late Quaternary
Ryan and others, 2009
Clarke and others, 1987
Legg and Kennedy, 1993
Vedder and others, 1986b

484A
THIRTY MILE BANK FAULT (OFFSHORE)
Quaternary; Pre-Quaternary
Legg and Kennedy, 1993

485
SAN CLEMENTE FAULT (OFFSHORE)
Late Quaternary; Holocene; Undivided Quaternary; Historic?
(1951 earthquake)
Clarke and others, 1987
Legg and Kennedy, 1979 (p. 42); 1993
Legg and others, 1989 (late Quaternary age, p. 1727)
Richter, C.F., 1958 (p. 446)
Vedder and others, 1986b

486
SAN DIEGO TROUGH FAULT (OFFSHORE)
Holocene; Late Quaternary
Ryan and others, 2009
Clarke and others, 1987
Legg, M.A., 1985
Legg and Kennedy, 1993

487
MISSION BAY FAULT
Late Quaternary
Kennedy and Peterson, 1975
Treiman, J.A., 1984

488
POINT LOMA FAULT ZONE
Late Quaternary
Kennedy and others, 1975 (p. 13, Plate 1)
Treiman, J.A., 1993

489
CORONADO BANK FAULT ZONE (OFFSHORE CORONADO BANK SECTION)
Holocene; Late Quaternary; Undivided Quaternary
Clarke and others, 1987
Ryan and others, 2009
Legg, M.R., 1985
Legg and others, 1989

490
CORONADO FAULT
Holocene; Late Quaternary
Clarke and others, 1987
Kennedy and Clark, 1999
Treiman, J.A., 2002d
Legg and Kennedy, 1993

490A
SPANISH BIGHT FAULT
Holocene; Late Quaternary
Clarke and others, 1987
Kennedy and Clark, 1999
Kennedy and Welday, 1980
Treiman, J.A., 2002d
Legg and Kennedy, 1993

491
ROSE CANYON FAULT ZONE
Holocene; Late Quaternary; Quaternary
Kennedy and Peterson, 1975
Treiman, J.A., 1984, 1990b

492
OLD TOWN FAULT (ROSE CANYON FAULT SEGMENT)
Late Quaternary?
Kennedy and Peterson, 1975
Treiman, J.A., 1993

493
LA NACION FAULT ZONE
SWEETWATER FAULT
Quaternary
Kahle, J.E., 1988b
Kennedy and Tan, 1977
Hart and others, 1989

493A
SILVER STRAND FAULT (OFFSHORE)
Late Quaternary
Kennedy and Welday, 1980
Kennedy and Clark, 1999
Clarke and others, 1987
Legg and Kennedy, 1993
Treiman, J.A., 2002d

494
THING VALLEY FAULT
PINE VALLEY FAULT
OTHER UNNAMED FAULTS
Pre-Tertiary; Quaternary
Todd, V.A., 1979
Kahle, J.E., 1988a (Quaternary)

494A
UNNAMED FAULTS
Pleistocene; Holocene
Kahle, J.E., 1988a

495
LAGUNA MEADOW FAULT
Quaternary in part; Pre-Tertiary in part
Todd, V.A., 1979

496
ELSIMORE FAULT
(COYOTE MOUNTAIN SECTION ELSIMORE FAULT ZONE)
Holocene
Kahle, J.E., 1988a
Smith, D.P., 1979a
Rockwell and Pinault, 1986 (p. 193-196)
Todd, V.R., 2004
EFZ: Carrizo Mtn.

497
TAHOE VALLEY FAULT ZONE
Quaternary
Schweickert and others, 2000

498
KANE SPRING FAULT (SAN JACINTO FAULT ZONE)
Late Quaternary; Historic (1987 earthquake rupture)
Hudnut and others, 1989
Sharp and others, 1989
Treiman, J.A., 1989b
EFZ: Kane Spring
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| 499  | **ELMORE RANCH FAULT AND ELMORE RANCH EAST FAULT**  
(SAN JACINTO FAULT ZONE)  
Historic (1987 earthquake rupture; 1992 triggered creep)  
   Hudnut and others, 1989  
   Kahle and others, 1988  
   Sharp and others, 1989  
   Sharp, R.V., 1992 (triggered creep)  
   Treiman, J.A., 1989b  
   Hart and others, 1989  
   EFZ: Kane Spring |
| 500  | **LONE TREE FAULT**  
(SAN JACINTO FAULT ZONE)  
Historic (1987 earthquake rupture); Late Quaternary  
   Hudnut and others, 1989  
   Sharp and others, 1989  
   Treiman, J.A., 1989b  
   EFZ: Kane Spring |
| 501  | **SMOKETREE WASH FAULT**  
Late Quaternary  
   Riverside County, 2001 |
| 502  | **BRAWLEY SEISMIC ZONE**  
Historic  
   Johnson and Hill, 1982 |
| 503  | **UNNAMED FAULTS AND LINEAMENTS**  
Late Quaternary or Holocene  
   Heath, E.G., 1980 (p. 470, 471) |
| 504  | **SUPERSTITION HILLS FAULT**  
(SAN JACINTO FAULT ZONE)  
Historic (1987, 1979, 1968, 1951 earthquake ruptures; 1992, 1999 triggered creep); Late Quaternary  
   Allen and others, 1965  
   Fuis, G.S., 1982 (Plate 2)  
   Grantz and Wyss, 1972 (Plate 2)  
   Kahle and others, 1988  
   Rymer and others, 2002  
   Sharp and others, 1986a (1981 triggered creep)  
   Sharp and others, 1989  
   Sharp, R.V., 1992 (triggered creep)  
   Treiman, J.A., 1989b  
   Hart and others, 1991  
   EFZ: Superstition Mtn., Kane Spring, Brawley NW, El Centro |
| 505  | **SUPERSTITION MOUNTAIN FAULT ZONE**  
(SAN JACINTO FAULT ZONE)  
Late Quaternary; Quaternary, Holocene in part  
   Allen and others, 1972  
   Rockwell, T.K., 1990 (Holocene north end)  
   Sharp and Clark, 1972 (Fig. 35)  
   Treiman, J.A., 1989b (Holocene in part)  
   Hart and others, 1989  
   EFZ: Harpers Well, Plaster City NW, Superstition Mtn., Brawley NW |
| 506  | **WIENERT FAULT (SAN JACINTO FAULT ZONE)**  
Late Quaternary; Historic (1987 earthquake rupture)  
   Sharp and others, 1989  
   Treiman, J.A., 1989b |
| 507  | **BRAWLEY FAULT ZONE**  
Historic (1979, 1975, and 1940 earthquake ruptures; triggered creep 1968)  
   Cohn and others, 1982 (creep)  
   Sharp and others, 1982  
   Sharp, R.V., 1976, 1982b (p. 219. triggered creep)  
   Hart, E.W., 1989  
   EFZ: Brawley, Alamorio. Holtville West |
| 508  | **RICO FAULT**  
Historic (1979 earthquake rupture)  
   Sharp and others, 1982  
   Hart, E.W., 1989  
   EFZ: Holtville West |
| 509  | **IMPERIAL FAULT**  
Historic (1979, 1966, 1940 earthquake ruptures; 1968 and 1971 triggered creep)  
   Brune and Allen, 1967b  
   Cohn and others, 1982 (creep)  
   Hart, E.W., 1989  
   Sharp and others, 1982  
   Sharp, R.V., 1982b (p. 214, triggered creep)  
   Sharp and others, 1986a (1981 triggered creep)  
   Ulrich, F.P., 1941  
   Hart and others, 1989  
   EFZ: Brawley, El Centro, Holtville West, Calexico, Bonds Corner |
| 509A | **CRACKS NEAR DIXIELAND**  
Historic  
   Allen, C.A., 1972 (possible triggered creep)  
   Sharp, R.V., 1982 (probably desiccation features)  
   Smith, D.P., 1979b  
   Kahle, J.E., 1988a |
| 510  | **YUHA WELLS FAULT**  
Late Quaternary  
   Rockwell, T.K., 1990 |
| 511  | **LAGUNA SALADA FAULT IN CALIFORNIA**  
Holocene  
   Hart and others, 1979  
   Isaac, S., 1987  
   Kovach and others, 1962  
   Kahle and others, 1984  
   Kahle, J.E., 1988a |
| 512  | **UNNAMED FAULTS EAST SIDE MADELINE PLAINS**  
Quaternary  
   Wagner and Saucedo, 1993 |
| 513  | **AMEDEE FAULT**  
Historic (creep due to fluid withdrawal), Holocene, Quaternary  
   Bryant and others, 1993  
   Grose and others, 1991 |
| 514  | **SADDLE BLANKET FLAT FAULT ZONE**  
Late Quaternary; Quaternary  
   Bryant, W.A., 1990e |
515  POLARIS FAULT  
   Holocene; Late Quaternary  
   Hunter, L.E., 2009  
   Melody, A.D., 2009

516  WEST TAHOE-DOLLAR POINT FAULT ZONE  
   Holocene; Late Quaternary; Quaternary  
   Brothers and others, 2009b  
   Burnett, J.J., 1982  
   Franks, A.L., 1980  
   Schweickert and others, 2000

517  EXTRA FAULT  
   Holocene  
   Brothers and others, 2009a  
   Janecke and others, in press

518  TAHOE-SIERRA FRONTAL FAULT ZONE  
   Quaternary  
   Harwood and Fisher, 2002  
   McCaughhey, J.W., 2003  
   Saucedo, G.J., 2005  
   Schweickert and others, 2000

519  ALGODONES FAULT  
   Quaternary  
   Matlick and others, 1973  
   Olmsted and others, 1973

520  ATLAS PEAK-FOSS VALLEY LINEAMENT ZONE  
   Quaternary  
   Baldwin and others, 1998

521  WEST NAPA FAULT ZONE (NORTHERN SECTION)  
   Quaternary  
   Clahan and others, 2005

522  FRANKLIN FAULT  
   Quaternary  
   Graymer and others, 2006

523  CACHAGUA FAULT  
   Quaternary  
   Dibblee, T.W., Jr., 1974a  
   Cotton and Associates, 1995

524  HATTON CANYON AND SYLVAN THRUST FAULTS  
   Holocene, Quaternary  
   Clark and others, 1997

525  WHITE MOUNTAINS FAULT ZONE (HAMMIL SECTION)  
   Quaternary  
   dePolo, C.M., 1989

526  GRAPEVINE FAULT  
   Late Quaternary  
   Reheis, M.C., 1991

527  TIN MOUNTAIN FAULT  
   Late Quaternary  
   Reheis, M.C., 1991  
   Reheis and Noller, 1991

528  UNNAMED FAULTS WEST OF DRY MOUNTAIN  
   Late Quaternary  
   Burchfiel, B.C., 1969  
   Bryant, W.A., 2009 (aerial photographic interpretation)  
   Wrucke and Corbett, 1990

529  MILLER CREEK AND MORAGA FAULTS  
   Quaternary  
   Graymer and others, 1995, 2006

530  OWENS RIVER FAULT  
   Historic  
   Slemmons and others, 2008

531  CENTENNIAL FLAT FAULT  
   Late Quaternary  
   Slemmons and others, 2008

532  UNNAMED FAULTS IN EUREKA VALLEY  
   Quaternary; Historic (1993 earthquake rupture)  
   Hecker and Pezzopane, 2009  
   Nelson, C.A., 1971  
   Wrucke and Corbett, 1990

533  LOCKWOOD VALLEY AND SOUTH LOCKWOOD VALLEY FAULTS  
   (EASTERN SECTION BIG PINE FAULT ZONE)  
   Late Quaternary; Quaternary  
   Carman, M.F., 1964  
   Kellogg and Miggins, 2002  
   Kellogg, K.S., 2003  
   Minor, S.A, 1999

534  LAVIC LAKE FAULT ZONE  
   Holocene; Historic (1999 earthquake rupture)  
   Treiman, J.A., 2002a  
   Treiman and others, 2002  
   EFZ: Hector, Sunshine Peak, Sleeping Beauty, Lavic Lake, Lavic SE, Hidalgo Mtn., Deadman Lake NW

535  EAST WIDE CANYON FAULT  
   (BURNT MOUNTAIN FAULT ZONE)  
   Holocene  
   Treiman, J.A., 1992

536  WRIGHT ROAD FAULT  
   Holocene  
   Treiman, J.A., 1997  
   EFZ: Camarillo, Santa Paula

537  SANTA ROSA VALLEY FAULT  
   (SIMI-SANTA ROSA FAULT ZONE)  
   Holocene  
   Treiman, J.A., 1998  
   EFZ: Camarillo, Newbury Park
538
EAST MONTEBELLO FAULT
Holocene
  Treiman, J.A., 1991a
  EFZ: El Monte

539
BLUE CUT FAULT ZONE (EASTERN END FORMALLY PRE-
QUATERNARY)
Quaternary
  Riverside County, 2001
  Schell and Schell, 1994

540
SOUTHERN INYO MOUNTAINS FAULT
Quaternary
  Slemmons and others, 2008
  Stinson, M.C., 1977

541
SAN FELIPE FAULT ZONE
Late Quaternary; Quaternary
  Steely and others, 2009

542
GREEN SPRINGS RUN FAULT
(FOOTHILLS FAULT SYSTEM)
Late Quaternary
  Page and Sawyer, 2004

543
HAUPT CREEK FAULT
(FOOTHILLS FAULT SYSTEM)
Quaternary
  Page and Sawyer, 2004

544
BLACK MOUNTAIN FAULT ZONE
(SOUTH-CENTRAL SECTION DEATH VALLEY FAULT
SYSTEM)
Holocene; Quaternary
  Brogan and others, 1991
  Drewes, H., 1963
  Machette and others, 2001a, 2001b
  Reheis and Noller, 1991
  Wills, C.W., 1989a
  EFZ: Furnace Creek, Devils Golf Course, Hanaupah
  Canyon, Badwater, Dantes View, Mormon Point, Gold
  Valley, Shore Line Butte

NOTE: The names following the abbreviation EFZ (Earthquake Fault Zone) are the 7.5-minute quadrangles issued by the State Geologist showing the boundaries of officially zoned faults. For more information see:

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<tr>
<td>BUENA VISTA FAULT</td>
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APPENDIX C

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