

More than 4,300 faults and fault segments are included in the GIS database. Data tables linked to the faults include the fault name, length, age and information on location (e.g. certain, concealed, queried, etc.). The faults shown on Plate 1-2 are typically accurate to within 100 to 500 feet; however, some faults are better constrained than others as a consequence of the geologic field relations (their visibility in the field), or the quality of the geologic maps from which the data were acquired. Most of the faults that are Holocene to Late Quaternary in age are accurate to within 100-300 feet because their locations were typically retrieved from detailed (small-scale) geologic maps. However, in regions where these faults are "concealed" by younger sediments, their locations become progressively less accurate.

Many of the Holocene to Late Quaternary age faults are shown to exist, even when buried under younger sediments, due to their potential to rupture through the sediments to the surface. The older, pre-Quaternary faults are typically not shown under young sediments, as they are not potentially active.

This coverage may not show all potentially active faults, either within the special studies zones (see Fault Zones, below) or outside their boundaries. The faults shown on the map were not field checked and the quality of available data is highly varied.

The source maps used for this coverage were 1974 State of California, Department of Conservation 7.5 minute quadrangle topographic maps. Other references for the fault locations compiled on Plate 1-2, can be found in Appendix D.

1.4.2 Geographic Information System Coverage of Fault Special Studies Zones

Detailed geographic information system coverage for fault special studies zones are provided as part of this study (Plate 1-3). These coverages, their resolution and data sources are described below:

Coverage Description: Fault Special Studies Zones in Riverside County

Coverage distribution file names: apzones.e00; apzonept.e00; apcounty.e00; ap-eci.e00

Coverage Area: Riverside County

Source: Earth Consultants International

Accuracy: 1:24,000.

The source maps digitized for this coverage were 1974, 1980, 1988, 1993 and 1995 Official Earthquake Fault Zone, State of California, Department of Conservation 7.5 minute quadrangle topographic maps (Table 1-4 and Figure 1-8).

Table 1-4:
Alquist-Priolo Earthquake Fault Zone Maps Available for Riverside County

Map Name	Date	Map Name	Date	Map Name	Date
Alberhill	1980	Joshua Tree South	1993	SE Idyllwild	1974
Beaumont	1995	Lake Mathews	1980	SE Morongo Valley	1974
Bucksnort Mtn	1974	Lakeview	1988	SE San Gorgonio Mtn	1974
Cabazon	1995	Mecca	1974	Seven Palms Valley	1980
Cathedral City	1974	Mortmar	1974	Sunnymead	1974
Clark Lake NE	1974	Murrieta	1990	SW Idyllwild	1974
Collins Valley	1974	Myoma	1974	SW Lost Horse	1974
Corona South	1980	NE Hemet	1974	SW Morongo Valley	1974
Desert Hot Springs	1980	NE Thousand Palms	1974	SW Palm Desert	1974
Durmid	1974	NW Idyllwild	1974	SW San Gorgonio Mtn	1974
El Casco	1995	Orocochia	1974	Temecula	1990
Elsinore	1980	Pechanga	1990	Thermal Canyon	1974
Frink NW	1988	Redlands	1977	Whitewater	1995
Hemet	1980	Salton	1974	Wildomar	1980
Indio	1974	San Jacinto	1980	Yucca Valley South	1993

Figure 1-8: Index of Official Earthquake Fault Zone Maps for Riverside County