

Map A—Albuquerque metropolitan area

**MAP EXPLANATION**

**TIME OF MOST RECENT SURFACE RUPTURE**

- Historic (1887, NE Sonora)
- Holocene (<10,000 years) or post last glaciation (<15,000 years)
- Late Quaternary (<130,000, post periglacial glaciation)
- Late and middle Quaternary (<750,000 years)
- Quaternary, undifferentiated (<1,600,000 years)
- Area of no Quaternary faults or area unmapped

**SLIP RATE**

- 1-0.2mm/year
- >0.2mm/year

**QUALITY**

- Reliable
- Poor or discontinuous at map scale
- Inferred or concealed

**STRUCTURE TYPE**

- Thrust or reverse fault (teeth on upper block)
- Right-lateral strike-slip fault
- Left-lateral strike-slip fault
- Normal fault
- Anticline
- Syncline
- Monocline
- Plunge direction

**OTHER SYMBOLS**

- Site of trench across fault
- Location of fault section boundary

TABLE 1A. DATA ON QUATERNARY FAULTS IN NEW MEXICO  
(Abbreviations: Mtn., Mountain; Mns., Mountains; MRE, most recent surface-faulting event; ka, thousands of years ago; Ma, millions of years ago. Reported length is straight line, from end to end)

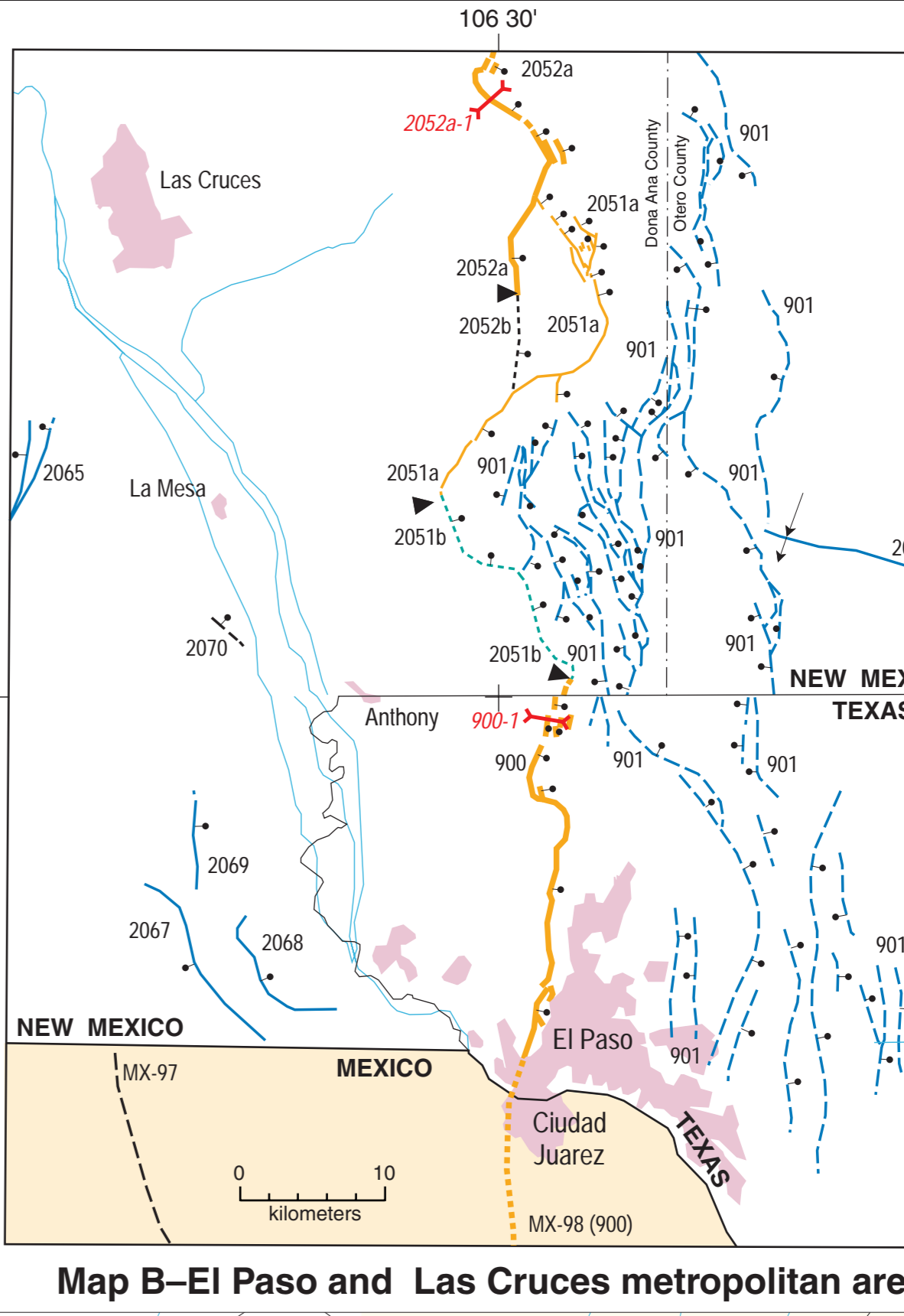
No.	Name of structure (fault or fold)	Primary 1 x 2 quadrangle	MRE	Fault type, dip direction
900	East Franklin Mtns. fault	El Paso	<15 ka	Normal, E
901	Huachuca fault zone	El Paso	<750 ka	Normal, E & W
2001	Galina fault	Artes	<1.6 Ma	Normal, W & E
2002a	Unnamed fault, northern section	Abuquerque	<1.50 Ma	Reverse, normal?
2002b	Nacimiento fault, southern section	Abuquerque	<750 ka	Normal, E & W
2003	Cañones fault	Artes	<1.6 Ma	Normal, E
2004	Luisa Mesa fault zone	Artes	<1.6 Ma	Normal, W
2005	La Canada del Amargue fault zone	Abuquerque	<1.6 Ma	Normal-oblique, E
2006	Black Mesa fault zone	Artes	<1.6 Ma	Normal, vertical
2007a	Embudo fault zone, Pilar section	Artes	<1.6 Ma	Sinistral, vertical
2007b	Embudo fault zone, Hernandez section	Artes	<1.6 Ma	Sinistral/normal?
2008	Pajarito fault zone	Abuquerque	<15 ka	Normal, E
2009	Puye fault	Abuquerque	<1.6 Ma	Normal, E & W
2010	Pobosca fault	Abuquerque	<1.6 Ma	Normal, E & W
2011	Unmapped fault northeast of Alma	Clifton	<1.6 Ma	Normal, SW
2012	Mogoton fault zone	Silver City	<750 ka	Normal, SW
2013	Mogolon Hill fault zone	Silver City	<750 ka	Normal, W & SW
2014	Unmapped fault south of Gila	Silver City	<750 ka	Normal, W & SW
2015	Mesa fault	Raton	<130 ka	Normal, E
2016	Sunshine Valley fault	Raton	<130 ka	Normal, E
2017a	Southern Sangre de Cristo fault, San Pedro Mesa section	Raton	<150 ka	Normal, W
2017b	Southern Sangre de Cristo fault, Uruca section	Raton	<15 ka	Normal, W
2017c	Southern Sangre de Cristo fault, Questa section	Raton	<15 ka	Normal, W
2017d	Southern Sangre de Cristo fault, Hondo section	Raton	<15 ka	Normal, W
2017e	Southern Sangre de Cristo fault, Colton section	Raton	<15 ka	Normal, W
2018	Vale Verde fault	Raton	<15 ka	Normal, W
2019	Red River fault	Raton	<130 ka	Normal, E
2020	Las Tablas fault	Raton	<1.6 Ma	Normal, E
2021	Strong fault	Raton	<1.6 Ma	Normal, W
2022	Los Cordobas fault	Raton	<1.6 Ma	Normal, W
2023	Sierra Blanca fault	Santa Fe	<1.6 Ma	Normal, vertical
2024	Nimble fault	Santa Fe	<1.6 Ma	Sinistral/normal?
2025	Lang Canyon fault	Douglas	<750 ka	Normal, W
2026	Piedra Canyon fault	Abuquerque	<130 ka	Normal, W
2027	Guaje Mountain fault	Abuquerque	<15 ka	Normal, W
2028	Cavey Canyon fault	Abuquerque	<15 ka	Normal, E
2029a	Jemez-San Ysidro fault, Jemez section	Abuquerque	<1.6 Ma	Normal, E to W
2029b	Jemez-San Ysidro fault, San Ysidro section	Abuquerque	<750 ka	Normal, E
2030a	San Felipe fault, Santa Ana section	Abuquerque	<1.6 Ma	Normal, E
2030b	San Felipe fault, Gonzales section	Abuquerque	<1.6 Ma	Normal, W
2031	San Francisco fault	Abuquerque	<1.6 Ma	Normal, W
2032	La Bajada fault	Abuquerque	<1.6 Ma	Normal, W
2033a	Terres Calconito fault, Galisteo section	Abuquerque	<130 ka	Sinistral, vertical
2033b	Terres Calconito fault, Canyon section	Abuquerque	<750 ka	Normal, W
2034	Bernalillo fault	Abuquerque	<750 ka	Normal, W
2035	Cañaditas fault	Abuquerque	<750 ka	Normal, E
2036	Rincon fault	Abuquerque	<15 ka	Normal, W
2037	Sandia fault	Abuquerque	<750 ka	Normal, W
2038	Young Runge fault	Abuquerque	<130 ka	Normal, E
2039	Sand Hill fault zone	Abuquerque	<1.6 Ma	Normal, E
2040	East Pecos fault zone	Abuquerque	<130 ka	Normal, W
2041	Unmapped fault near Pecos Peak	Abuquerque	<1.6 Ma	Normal, E & W
2042	West Pecos fault zone	Abuquerque	<750 ka	Normal, NW
2043	Faults north of Pecos	Abuquerque	<750 ka	Normal?, NW/NE
2044	Four Hills Ranch fault	Abuquerque	<750 ka	Normal, W & E
2045	Unmapped fault near Loma Barbon	Abuquerque	<1.6 Ma	Normal, W & E
2046	Zia fault	Abuquerque	<1.6 Ma	Normal, W & N
2047	Unmapped fault near Loma	Abuquerque	<750 ka	Normal, W & N
2048	Colorado de Abajo	Abuquerque	<750 ka	Normal, E-W
2049	Unmapped fault near Star Heights	Abuquerque	<750 ka	Normal, E & W
2050	El Oro fault	Santa Fe	<750 ka	Normal, W
2051a	Artillery Range fault, northern section	Las Cruces	<130 ka	Normal, E
2051b	Artillery Range fault, southern section	Las Cruces	<130 ka	Normal, E
2052a	Organ Mountains fault, Cos Ranch (northern) section	Las Cruces	<1.6 Ma	Normal, E
2052b	Organ Mountains fault, southern section	Las Cruces	<1.6 Ma	Normal, E(?)
2053a	San Andres fault, northern section	Tularosa	<130 ka	Normal, E
2053b	San Andres fault, central section	Tularosa	<130 ka	Normal, E
2053c	San Andres fault, southern section	Tularosa	<15 ka	Normal, E
2054a	Alamogordo fault, Three Rivers	Tularosa	<15 ka	Normal, W
2054b	Alamogordo fault, Sacramento	Carlsbad	<15 ka	Normal, W
2054c	Alamogordo fault, McGregor	Carlsbad	<130 ka	Normal, W
2055	Unmapped fault/McGregor	Las Cruces	<750 ka	Normal, SW
2056	Unmapped fault/McGregor	Tularosa	<750 ka	Normal, E
2059a	Jornada Drew fault, northern section	Las Cruces	<1.6 Ma	Normal, NE
2059b	Jornada Drew fault, central section	Las Cruces	<750 ka	Normal, NE
2059c	Jornada Drew fault, (and monocline), southern section	Las Cruces	<15 ka	Anticline, E & W
2059d	Guadalupe fault	Carlsbad	<15 ka	Normal, W
2059e	Unmapped fault northeast of Longhorn Ranch	Santa Fe	<1.6 Ma	Normal, W
2060	Engle Lake fault	Tularosa	<750 ka	Normal, E
2061	East Torreon fault/hold	Las Cruces	<750 ka	Normal, N & E
2062	Unmapped fault/hold	Las Cruces	<750 ka	Normal, W & E
2063	East Robledo fault	Las Cruces	<750 ka	Normal, E
2064	West Robledo fault	Las Cruces	<750 ka	Normal, W
2065	Fitzgerald fault	Las Cruces	<750 ka	Normal, W
2066	East Pecos fault	El Paso	<130 ka	Normal, NE
2067	Mission fault	El Paso	<750 ka	Normal, SW
2068	Unmapped fault southeast of Strauss	El Paso	<750 ka	Normal, NE
2069	Unmapped fault north of Strauss	El Paso	<750 ka	Normal, E

TABLE 1A. — Continued

No.	Name of structure (fault or fold)	Primary 1 x 2 quadrangle	MRE	Fault type, dip direction
2070	Unmapped fault east of Black Mountain	Las Cruces	<1.6 Ma	Normal, NE
2071	Mount Riley fault (zone)	El Paso	<1.6 Ma	Normal, SW
2072	Quadradas fault (zone)	Santa Fe	<750 ka	Normal, NW
2073	Cornel Mountain fault	El Paso	<1.6 Ma	Normal, W
2074	Unmapped fault north of Eagles Nest	Las Cruces	<1.6 Ma	Not reported
2075	West Florida Mountains fault	Las Cruces	<130 ka	Normal, W
2076	Unmapped fault north of Hermanas	El Paso	<1.6 Ma	Normal, W & E
2077	Unmapped faults and beds of La Mesa	Las Cruces	<1.6 Ma	Normal, W & E
2078	West Tank fault	Las Cruces	<750 ka	Normal, E
2079	Sierra Romada fault	Las Cruces	<750 ka	Normal, NE & SW
2080	Hedley Tank fault	Las Cruces	<750 ka	Normal, SW
2081	Sierra de las Uvas fault (zone)	Las Cruces	<750 ka	Normal, NW & N
2082	Unmapped fault south of Pecos	Las Cruces	<750 ka	Normal, E
2083	Arroyo	Las Cruces	<750 ka	Normal, E
2084	East Rincon Hills fault	Las Cruces	<750 ka	Normal, NW
2085	Black Hill fault	Las Cruces	<1.6 Ma	Normal, SW
2086	Black Hill fault	Las Cruces	<750 ka	Normal, SW
2087a	Red Hills fault, northern section	Las Cruces	<130 ka	Normal, W
2087b	Red Hills fault, southern section	Las Cruces	<750 ka	Normal, W
2088a	Caballo fault, Williamsburg section	Tularosa	<15 ka	Normal, W
2088b	Caballo fault, central section	Las Cruces	<130 ka	Normal, W
2089	Unmapped fault north of Rincon	Las Cruces	<1.6 Ma	Syncline, E & S
2091	Pearson Mesa fault	Silver City	<130 ka	Normal, NW
2092	Western Ranch fault zone	Silver City	<15 ka	Normal, W
2093	Annis Valley fault	Silver City	<15 ka	Normal, W
2094	Good Hill fault zone, northern section	Silver City	<130 ka	Normal, SW
2094b	Good Hill fault zone, southern section	Silver City	<750 ka	Normal, S
2096	Orga Ranch fault zone	Douglas	<130 ka	Normal, E
2099	Gliseppe Mountain fault	Douglas	<130 ka	Normal, W
2097	Unmapped fault west of the Pyramid Mountains	Silver City	<130 ka	Normal, W
2098	Footwall fault	Las Cruces	<1.6 Ma	Normal, W
2099	Central fault	Las Cruces	<1.6 Ma	Normal, W
2101	Mud Springs fault	Tularosa	<750 ka	Normal, W
2103	Western Springs fault	Tularosa	<130 ka	Normal, W
2104	Patomas Creek fault zone	Tularosa	<750 ka	Normal, E & W
2105	Cuchillo Negro fault zone	Tularosa	<130 ka	Normal, E & W
2106	Unmapped fault west of Caballo	Tularosa	<750 ka	Normal, E & W
2107	Milligan Gulch fault zone	Tularosa	<750 ka	Normal, E & W
2108a	Socorro Canyon fault zone, northern section	Tularosa	<130 ka	Normal, E & W
2108b	Socorro Canyon fault zone, southern section	Tularosa	<130 ka	Normal, E & W (minor?)
2109a	La Jencia fault, northern section	Socorro	<15 ka	Normal, NE
2109b	La Jencia fault, southern section	Socorro	<1.6 Ma	Normal, W
2111	Chill fault	Socorro	<130 ka	Normal, W
2112	West Jencia fault zone	Socorro	<1.6 Ma	Normal, W
2113	Loma Pelada fault	Socorro	<130 ka	Normal, E
2114	Coyote Springs fault	Socorro	<130 ka	Normal, E & W
2115	Unmapped fault west of El Rio Puerco	Socorro	<130 ka	Normal, W
2116	Sabinal fault	Socorro	<130 ka	Normal, W
2117	Unmapped fault on the Llano de Menzana	Socorro	<750 ka	Normal, NW
2118	Los Pinos fault	Socorro	<1.6 Ma	Normal, NW
2119	Menzana fault	Socorro	<750 ka	Normal, W
2120	Hudson Spring fault	Socorro	<130 ka	Normal, E & W
2121	Unmapped fault along the Llano de Abuquerque	Socorro	<750 ka	Normal, E & W
2122	Car Mesa fault	Socorro	<750 ka	Normal, E
2123	Santa Fe fault	Socorro	<1.6 Ma	Normal, W
2124	Unmapped fault west of Mountain	Socorro	<130 ka	Normal, W
2125	VIA fault	Socorro	<130 ka	Normal, W & E
2126	Unmapped fault northeast of Dali	Socorro	<750 ka	Normal, SE & SW
2127	Unmapped fault at North Lake	Socorro	<750 ka	Normal, SW
2128	Coyote Hill fault	Tularosa	<750 ka	Normal, NE
2129	Corder Lake and Antelope faults	Tularosa	<750 ka	Normal, NE
2130	Black Hill fault	Tularosa	<130 ka	Normal, W
2131	Unmapped fault along San Mateo Mountains	Tularosa	<750 ka	Normal, SE & NW
2132	Unmapped fault west of Bosque del Apache	Tularosa	<1.6 Ma	Normal, E & W
2133	Fra Cristobal fault zone	Tularosa	<750 ka	Normal, E
2134	Unmapped fault on Cochran Plain	Tularosa	<1.6 Ma	Normal, E & W
2135	McCormick Ranch fault	Socorro	<750 ka	Normal, E & W
2136	Hickman fault	St. Johns	<1.6 Ma	Normal, W
2137	Unmapped fault east of Mangas	St. Johns	<1.6 Ma	Normal, SE & NW
2138	Red Hill fault	St. Johns	<1.6 Ma	Normal, W
2139	Unmapped fault west of Hatch	St. Johns	<1.6 Ma	Normal, W
2140	Cobaltas Mesa fault	Abuquerque	<15 ka	Normal, W
2141	Hachita fault	Douglas	<750 ka	Normal, W
2142	Faults near Cochiti Pueblo	Abuquerque	<1.6 Ma	Normal, E & W
2143a	Unmapped fault of the Valdes caldera	Abuquerque	<1.6 Ma	Normal
2143b	Unmapped fault of the Toledo caldera	Abuquerque	<1.6 Ma	Normal
2143c	Unmapped fault along the Valdes caldera	Abuquerque	<1.6 Ma	Normal
2143d	Unmapped faults related to resurgence zone of the Valdes caldera	Abuquerque	<1.6 Ma	Normal

TABLE 1B. DATA ON QUATERNARY FAULTS ADJACENT TO NEW MEXICO

No.	Name of structure (fault or fold)	Primary 1 x 2 quadrangle	MRE	Fault type, dip direction
<b>ARIZONA</b>				
826	Guadalupe Canyon fault	Douglas	<1.6 Ma	Normal, S
927	Burns Ridge fault	Douglas	<1.6 Ma	Normal, E, W & SW
928	Piedra Blanca fault	Douglas	<750 ka	Normal, E & SE
929	Christava fault zone	Douglas	<750 ka	Normal, E
931	North Swissham fault	Douglas	<1.6 Ma	Normal, SW
938	Chino fault	Clifton	<1.6 Ma	Normal, SW
941	Alma Mesa fault	Clifton	<1.6 Ma	Normal, E & SE
942	Curtis Mountain fault	Clifton	<1.6 Ma	Normal, SW
1014	Concho fault	Saint Johns	<750 ka	Normal, sinistral, NE
1015	Coyote Run fault	Saint Johns	<750 ka	Normal, sinistral, SW
1016	Verdon fault zone	Saint Johns	<750 ka	Normal, normal, NE
1021	Joe Glenn Ranch fault	Douglas	<1.6 Ma	Sinistral, normal, NE
<b>COLORADO</b>				
2015a	Animas fault	Trinidad	<130 ka	Normal, W
2017a	Southern Sangre de Cristo fault, San Pedro Mesa section	Trinidad	<130 ka	Normal, W
2019d	Northern Sangre de Cristo fault, San Luis section	Trinidad	<15 ka	Normal, W
2202	Faults of the Northern Basinic Hills	Trinidad	<1.6 Ma	Normal, NE, SW
2203	Faults near Garcia	Trinidad	<130 ka	Normal, W
<b>WEST TEXAS</b>				
900	East Franklin Mountains fault	El Paso	<15 ka	Normal, E
901	Huachuca fault zone	El Paso	<750 ka	Normal, E & W
902	Campo Grande fault	Van Horn	<130 ka	Normal, SW
903	Alcala fault	Van Horn	<750 ka	Normal, W & E
904	Arroyo Diable fault	Van Horn	<750 ka	Normal, SW
905a	Unmapped section of Caballo fault	Van Horn	<750 ka	Normal, SW
907	Unmapped fault	Van Horn	<1.6 Ma	Normal, SW
908	East Flat Top Mountain fault	Van Horn	<1.6 Ma	Normal, E
909	North Sierra Diablo fault	Van Horn	<1.6 Ma	Normal, N
910	East Sierra Diablo fault	Van Horn	<130 ka	Normal, E
911	West Delaware Mountains fault zone	Van Horn	<130 ka	Normal, SW
912	East Baylor Mountains-Carzon Mountain fault	Van Horn	<750 ka	Normal, SE
<b>MEXICO</b>				
MX-89	Unmapped fault	Ciudad Juarez	<750 ka	Normal, SW
MX-90	Unmapped fault	Ciudad Juarez	<750 ka	Normal, SW
MX-91	Unmapped fault	Ciudad Juarez	<750 ka	Normal, SW
MX-92	Unmapped fault	Ciudad Juarez	<130 ka	Normal, NE
MX-93	Unmapped fault (2073, Cornel Mountain fault)	Ciudad Juarez	<750 ka	Normal, SW
MX-94	Unmapped fault (2064, Extension of 2064)	Ciudad Juarez	<750 ka	Normal, SW
MX-95	Unmapped fault	Ciudad Juarez	<750 ka	Normal, NE
MX-96a	Unmapped (2071, Spillay of Mount Riley fault?)	Ciudad Juarez	<750 ka	Normal, NE
MX-96b	Unmapped (2071, Spillay of Mount Riley fault?)	Ciudad Juarez	<750 ka	Normal, SW
MX-97	Unmapped fault	Ciudad Juarez	<750 ka	Normal, NE
MX-98	Unmapped (900, South extension of El Paso)	Ciudad Juarez	<130 ka	Normal, E
MX-99	Unmapped fault	Ciudad Juarez	<130 ka	Normal, SW
MX-100	Unmapped fault	Ciudad Juarez	<1.6 Ma	Normal, NE
MX-101	Unmapped fault	Ciudad Juarez	<1.6 Ma	Normal, SW
MX-102	Unmapped (905, Amargosa fault)	Horner (Van Horn)	<15 ka	Normal, NE
MX-126	Playachi fault	Agua Prieta	1887	Normal, W



Map of Quaternary faults and folds in New Mexico and adjacent areas

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