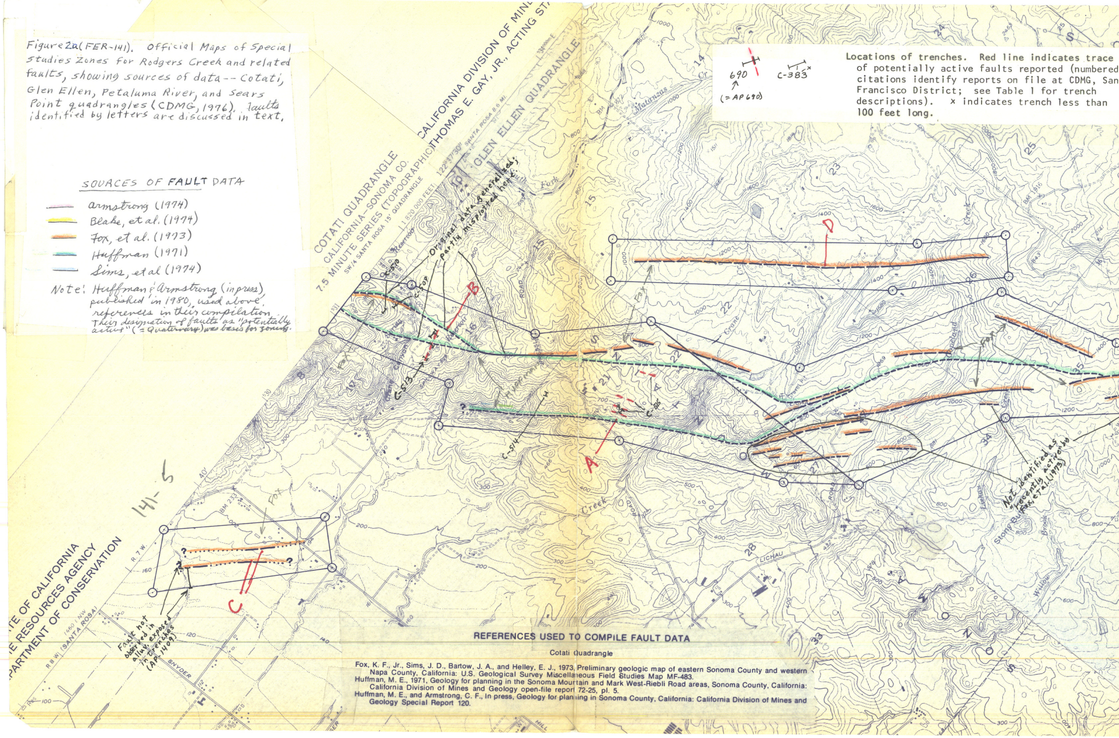
Figure 2a (FER-141). Official Maps of Special Studies Zones for Rodgers Creek and related faults, showing sources of data -- Cotati, Glen Ellen, Petaluma River, and Sears Point quadrangles (CDMG, 1976). Faults identified by letters are discussed in text.

SOURCES OF FAULT DATA

- armstrong (1974)
- Blake, et al. (1974)
- Fox, et al. (1973)
- Huffman (1971)
- Sims, et al (1974)

Note: Huffman & Armstrong (in press), published in 1980, used above, references in their compilation. Their designation of faults as "potentially active" (= Quaternary) was basis for zoning.

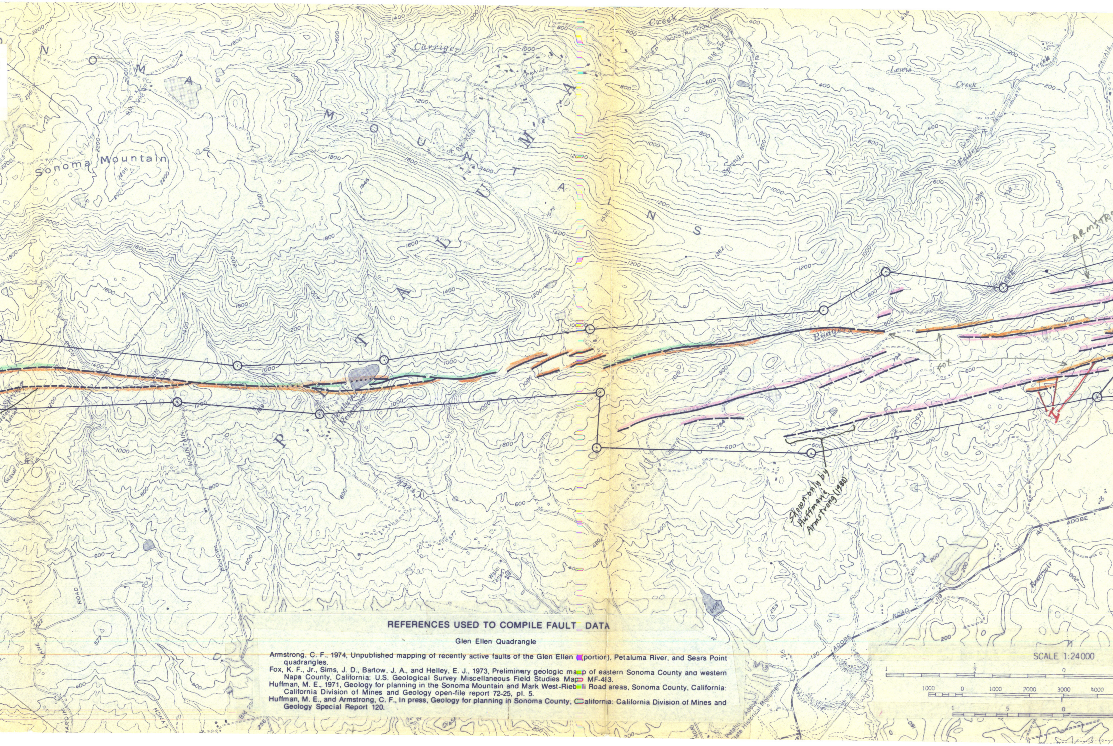
Locations of trenches. Red line indicates trace of potentially active faults reported (numbered citations identify reports on file at CDMG, San Francisco District; see Table 1 for trench descriptions). x indicates trench less than 100 feet long.


690
(= AP 690)
C-383
STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF CONSERVATION
CALIFORNIA DIVISION OF MINES
THOMAS E. GAY, JR., ACTING STATE
COTATI QUADRANGLE
CALIFORNIA-SONOMA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 SANTA ROSA 15' QUADRANGLE
GLEN ELLEN QUADRANGLE
122°37'30"
SANTA ROSA 8.6 MI.
1 820 000 FEET
C-510
C-509
C-513
C-514
C-516
Original data generalized; partly misplotted here.
Fox
A
B
C
D
141-5
Fault not observed in alluv. exposed in trenches (AP-1409)
Not identified as "recently active" by Fox, et al. (1973)
R. 7 W.
R 8 W (SANTA ROSA)
1460 I NW
SNYDER
LICHAU
Matanzas
Creek
Stony Butte
Brook
ROAD

REFERENCES USED TO COMPILE FAULT DATA

Cotati Quadrangle

Fox, K. F., Jr., Sims, J. D., Bartow, J. A., and Helley, E. J., 1973, Preliminary geologic map of eastern Sonoma County and western Napa County, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-483.
Huffman, M. E., 1971, Geology for planning in the Sonoma Mountain and Mark West-Riebli Road areas, Sonoma County, California: California Division of Mines and Geology open-file report 72-25, pl. 5.
Huffman, M. E., and Armstrong, C. F., In press, Geology for planning in Sonoma County, California: California Division of Mines and Geology Special Report 120.


SONOMA MOUNTAINS
Sonoma Mountain
Carriger
Creek
Lewis
Creek
Spring
Fedder
Rodgers
Petaluma Reservoir
PETALUMA
ADOBE
ROAD
MOUNTAIN
SONOMA
Water Tank
Oil Tank
Reservoir
Petaluma Adobe State Historical Monument
UNDER CONSTRUCTION
PRIVATE
ARMSTRO
Fox
Shown only by Huffman & Armstrong (1980)
SCALE 1:24000
1 ½ 0
1000 0 1000 2000 3000 4000
1 .5 0

REFERENCES USED TO COMPILE FAULT DATA

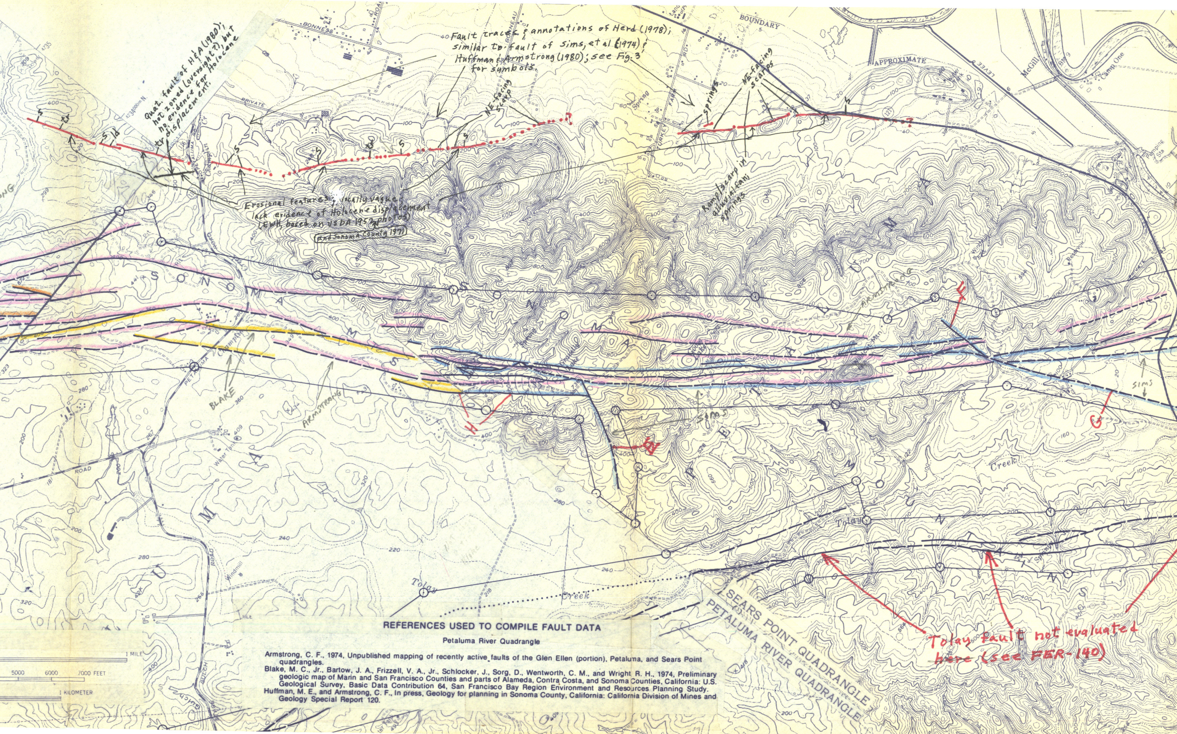
Glen Ellen Quadrangle

Armstrong, C. F., 1974, Unpublished mapping of recently active faults of the Glen Ellen (portion), Petaluma River, and Sears Point quadrangles.

Fox, K. F., Jr., Sims, J. D., Bartow, J. A., and Helley, E. J., 1973, Preliminary geologic map of eastern Sonoma County and western Napa County, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-483.

Huffman, M. E., 1971, Geology for planning in the Sonoma Mountain and Mark West-Riebli Road areas, Sonoma County, California: California Division of Mines and Geology open-file report 72-25, pl. 5.

Huffman, M. E., and Armstrong, C. F., In press, Geology for planning in Sonoma County, California: California Division of Mines and Geology Special Report 120.


Quat. fault of H&A (1980); not zoned (oversight?), but no evidence for Holocene displacement.
Fault traces & annotations of Herd (1978); similar to fault of Sims, et al (1974) & Huffman & Armstrong (1980); see Fig. 3 for symbols.
NE-facing scarp
springs
NE-facing scarps
Ramp/scarp in alluvial fan; springs
Erosional features; locally vague; lack evidence of Holocene displacement (EWH, based on USDA 1952 photos) (and Sonoma County 1971)
S
tr
ld
BONNESS
PRIVATE
BOUNDARY
APPROXIMATE
LEVEE
Spring
TURKEY FARM RD
SONOMA MOUNTAIN
BLAKE
ARMSTRONG
SIMS
E
G
H
H
Tolay
Creek
Tolay
Creek
ROAD
Windmill
Water Tank
SEARS POINT QUADRANGLE
PETALUMA RIVER QUADRANGLE
Tolay fault not evaluated here (see FER-140)
1 MILE
5000
6000
7000 FEET
1 KILOMETER

REFERENCES USED TO COMPILE FAULT DATA

Petaluma River Quadrangle

Armstrong, C. F., 1974, Unpublished mapping of recently active faults of the Glen Ellen (portion), Petaluma, and Sears Point quadrangles.

Blake, M. C., Jr., Bartow, J. A., Frizzell, V. A., Jr., Schlocker, J., Sorg, D., Wentworth, C. M., and Wright R. H., 1974, Preliminary geologic map of Marin and San Francisco Counties and parts of Alameda, Contra Costa, and Sonoma Counties, California: U.S. Geological Survey, Basic Data Contribution 64, San Francisco Bay Region Environment and Resources Planning Study.

Huffman, M. E., and Armstrong, C. F., In press, Geology for planning in Sonoma County, California: California Division of Mines and Geology Special Report 120.

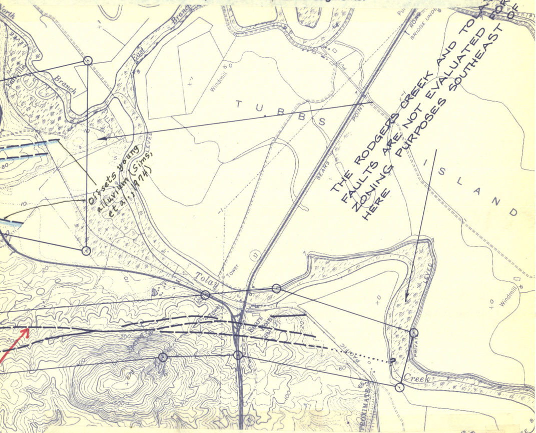
MAP EXPLANATION

Potentially Active Faults

1906 C Faults considered to have been active during Quaternary time; solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by creep or possible creep.

Special Studies Zone Boundaries

These are delineated as straight-line segments that connect encircled turning points so as to define special studies zone segments.



Branch
East Branch
TUBBS
ISLAND
Windmill
LEVEE
SEARS POINT
ROAD
BRIDGE UNDER
Tolay
Tower
37
Creek
PRIVATE
APPROXIMATE
200
400
500
Windmill
LEVEE
E ISLAND
560 III SE

Offsets young alluvium (Sims, et al., 1974)

THE RODGERS CREEK AND TOLAY FAULTS ARE NOT EVALUATED FOR ZONING PURPOSES SOUTHEAST OF HERE

REFERENCES USED TO COMPILE FAULT DATA

Sears Point Quadrangle

Armstrong, C. F., 1974, Unpublished mapping of recently active faults of the Glen Ellen (portion), Petaluma River, and Sears Point quadrangles.

Huffman, M. E., and Armstrong, C. F., In press, Geology for planning in Sonoma County, California: California Division of Mines and Geology Special Report 120.

Sims, J. D., Fox, K. F., Jr., Bartow, J. A., and Helley, E. J., 1973, Preliminary geologic map of Solano County and parts of Napa, Contra Costa, Marin, and Yolo Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-484.