FER 29, Plate 1.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF CALIFORNIA
REPRESENTED BY THE
DIRECTOR OF PUBLIC WORKS

MATILIJA QUADRANGLE
CALIFORNIA-VENTURA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 VENTURA 15' QUADRANGLE

Fault, dashed where approximately located, dotted where buried

Scarp

Lineament (with description)

Landslide (not all landslides are shown)

Color code indicates source of data:

Green = Weber, et al., 1975; annotations from Weber, et al. noted "1975"; calculated dips are from Weber, et al.

Orange = Weber, et al., 1973 who compiled from others:

Bush = Bush, 1956
McC = McCullough, 1957
Be = Bertholf, 1967

Brown = supplementary faults of Bush, 1956, which are not shown by Weber, et al.

Pink = Dibblee, 1939; shown only where no others have mapped faults.

Blue = Schlueter, 1976; shown only where no others have mapped faults.

All other data from Smith, this report.

Weber, et al, 1975: Linear trend of vegetation, or vegetational contrast, and/or soil contrast (?); several lines of indirect evidence suggest a fault along this trend, with older alluvial fan deposits faulted up to south; Late Quaternary (?).

TCS: 4K, 67-68: Two scarps, crossing also visible on c5609, 42-43 — one of these scarps almost has to be a fault, since an erosional feature (stream channel) process would have eliminated the scarp on the down (stream channel) side. Elevation differential is maintained on each scarp whether on up or down side of other.

N-S scarp appears to be contact — Older alluvium to west, older valley fill to east — both Late Pleistocene (Weber, et al, 1973)

Turner (1971) and Turner (personal communication, 1976) notes a major ground water barrier here — basement, higher on south block, forms a "dam" over which waters from the Ojai Valley must flow.

TCS: 4K, 67-68 - Could not follow fault through young Quaternary deposits

Weber, et al, 1975: A fault extending through the river area as a ground water barrier was mapped by Montgomery Research.

Weber, et al, 1975: Deflected or possibly offset drainage

Weber, et al, 1975: Deflected or possibly offset drainage

Weber, et al, 1975: Linear swale or gully; may be accompanied by linear ridges; also linear canyons; Late Quaternary

Weber, et al, 1975: Notch; Late Quaternary

Weber, et al, 1975: Linear trend of vegetation, or vegetational contrast, and/or soil contrast

Weber, et al, 1975: solid line

Weber, et al, 1975: dotted

Weber, et al, 1975: ponded alluvium

TCS: Fault line scarp

TCS: trough

Weber, et al, 1975: dotted

c5609, 42-43; 4K 67-68: general trough — terrace surface appears higher to south; however, no Holocene fault features visible on photo — no lineaments through the trough.

TCS: Creek appears to have cut through scarp; deflected drainage (?)

TCS, c-5609, 44-45: questionable scarp — could be 20' high

Weber, et al, 1975: Late Quaternary; 75° N dip, normal fault

Weber, et al, 1975: dashed

Fault, dashed where approximately located, dotted where buried.

Air photo lineament with description and photo numbers

Scarp — hachures on upper plate

Features shown in orange are from Weber, et al (1973).

Features shown in green are from Weber, et al (1975).

All other features shown are from TCS (this report).

FER-29
Plate 1

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1947. Field check 1952

Polyconic projection. 1927 North American datum
10,000-foot grid based on California coordinate system, zone 5

Red tint indicates areas in which only landmark buildings are shown

Dashed land lines indicate approximate locations

1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Data shown in purple compiled from aerial photographs taken 1967. This information not field checked

Purple tint indicates extension of urban areas

UTM GRID AND 1967 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT HALF-INTERVAL CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Heavy-duty — Light-duty
Medium-duty — Unimproved dirt
State Route

MATILIJA, CALIF.
NE/4 VENTURA 15' QUADRANGLE
N3422.5—W11915/7.5

1952

PHOTOREVISED 1967
AMS 2152 IV NE—SERIES V895

29-3