



V502, EDITION 5

Prepared by the U.S. Army Topographic Command (KCBM), Washington, D.C. Compiled in 1957 by photogrammetric methods and from United States quadrangles, 1:24,000, 1:50,000, and 1:62,500, 1947-54. Metroplan Water District, 1:120,000, California, Sheet 69, 1929. Planimetry revised in part from aerial photographs taken 1947-55. Photographic field annotated, 1956. Revised by the U.S. Geological Survey 1969.

100,000-foot grids based on California coordinate system, zones 5 and 6, and Arizona coordinate system, west zone

Location of geodetic control established by government agencies is shown on corresponding 1:250,000-scale Geodetic Diagram

LEGEND

Figures in red denote approximate distances in miles between stars

POPULATED PLACES

- Over 500,000
- 100,000 to 500,000
- 25,000 to 100,000
- 5,000 to 25,000
- 1,000 to 5,000
- Less than 1,000

ROADS

- Primary, all-weather, hard surface
- Secondary, all-weather, hard surface
- Light-duty, all-weather, hard or improved surface
- Fair or dry weather, unimproved surface
- Trail
- Interchange
- Route markers: Interstate, U.S., State

RAILROADS

- Normal gauge
- Single track divide or multiple
- Landplane airport
- Landing area
- Seaplane airport
- Seaplane anchorage
- Woods/brushwood
- Landmark: School; Church; Other
- Spot elevation in feet
- Marsh or swamp
- Intermittent or dry stream
- Power line, Mine

BOUNDARIES

- International
- State
- County
- Park or reservation

Scale 1:250,000

0 5 10 15 20 25 30 Kilometers

0 5 10 15 20 25 30 Statute Miles

0 5 10 15 20 25 30 Nautical Miles

CONTOUR INTERVAL 200 FEET
WITH SUPPLEMENTARY CONTOURS AT 100 FOOT INTERVALS

TRANSVERSE MERCATOR PROJECTION

BLACK NUMBERED LINES INDICATE THE 10,000-METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 11

1968 MAGNETIC DECLINATION FROM TRUE NORTH FOR THIS SHEET VARIES FROM 1°11' (2°10' W) EASTERLY FOR THE CENTER OF THE WEST EDGE TO 14°30' (16°10' W) WESTERLY FOR THE CENTER OF THE EAST EDGE.

FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

LOCATION DIAGRAM

120° 37' 110° 37'

37° 37' 33° 37'

NEEDLES, CALIFORNIA

UNITED STATES

MEXICO

SECTIONIZED TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

1. Read letters identifying 360,000-meter square in which the point lies.

2. Locate the VERTICAL grid line to LEFT of point and read LARGE figure labeling the line either in the top or bottom margin, or on the side.

3. Locate the HORIZONTAL grid line BELOW point and read LARGE figure labeling the line either in the left or right margin, or on the side.

4. Estimate tenths from grid line to point.

5. Estimate tenths from the top or right margin, or on the side.

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NEEDLES, CALIFORNIA; ARIZONA

1956

REVISED 1969

JUL 19 1976

U.S. Geological Survey
Historical File
Topographic Division

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