



Prepared and published by the National Geospatial-Intelligence Agency

**MAP INFORMATION AS OF 2002**

**LEGEND**

**POPULATED PLACES**  
 Densely built-up areas  
 Sparingly to moderately built-up areas

**ROADS**  
 All weather, hard surface:  
 Divided highway  
 Two or more lanes wide  
 One lane wide  
 All weather, loose surface:  
 Two or more lanes wide  
 One lane wide  
 Fair or dry weather, loose surface  
 Track: Trail  
 Route markers: Interstate  
 National/Secondary  
 RAILROADS  
 Normal gauge 1.44m (4' 9 1/2")  
 Single Track  
 Multiple Track  
 Narrow gauge  
 Electrified  
 Boundaries  
 International  
 First-order  
 Second-order  
 MISCELLANEOUS CULTURAL FEATURES  
 Building: Ruin, School  
 Cemetery  
 Hospital, Helipad  
 Cistern; Tank; Located object  
 Well; Landmark area  
 Airfield/Rampway; Dam  
 Mine: Active, Abandoned  
 Bridge: Pedestrian bridge

**OBSTRUCTIONS (46m or higher)**  
 Elevation of obstruction top above sea level: 430  
 Elevation of obstruction top above ground level: < 46m, > 46m  
 High tension powerlines  
 Cemetery powerlines

**DRAINAGE**  
 Stream: Less than 25m wide, 25m wide or more, Ditch: Less than 25m wide  
 Spring  
 Well  
 Lake/pond  
 Swamp: Land subject to natural inundation  
 Stream: Disappearing, Disappearing

**MISCELLANEOUS RELIEF**  
 Spot elevation: Highest, Normal  
 Depression  
 Escarpment  
 Level  
 Supplyment contour  
 Sand, Gravel  
 Disturbed surface  
 VEGETATION  
 Woodland  
 Scrub; Orchard  
 Scattered trees  
 Area name

**NOTES**  
 A LANE ON THIS MAP IS CONSIDERED TO BE AT LEAST 2.5 METERS (8 FEET) WIDE.  
 ROAD CLASSIFICATION SHOULD BE REFERRED TO WITH CAUTION.  
 IN DEVELOPED AREAS ONLY THROUGH ROADS ARE CLASSIFIED.  
 CAUTION: NOT ALL TELEPHONE AND ELECTRIC SERVICE LINES ARE SHOWN.  
 NORTH AMERICAN DATUM 1983 (NAD 83) AND WORLD GEODETIC SYSTEM 1984 (WGS 84) ARE EQUIVALENT FOR MAPPING, CHARTING AND NAVIGATION AT THIS SCALE.

**CONVERSION GRAPH**  
 (1 meter = 3.28 feet)

Meters	Feet
0	0
100	328
200	656
300	984
400	1312
500	1640
600	1968
700	2296
800	2624
900	2952
1000	3280

**ELEVATIONS IN METERS**

**CONTOUR INTERVAL 10 METERS**  
 SUPPLEMENTARY CONTOURS 5 METERS

**CONVERSION TABLES**

**100 METER REFERENCE**  
 1. Read large numbers labeling the VERTICAL grid line left of point and estimate tenths (100 meters) from grid line to point. Example: 12.3  
 2. Read large numbers labeling the HORIZONTAL grid line below point and estimate tenths (100 meters) from grid line to point. Example: 45.6  
 Example: 123456

**1000 METER SQUARE IDENTIFICATION**  
 Example: 14R

**Scale 1:50,000**

0 1 2 3 4 5 Kilometers  
 0 1 2 3 Nautical Miles

**BOUNDARIES**  
 TEXAS  
 LaSalle County

**ADJOINING SHEETS**

6141 II	6141 I	6241 II
6140 IV	6140 I	6240 IV
6140 III	6140 II	6240 III

**ELEVATION GUIDE**

**SLOPE GUIDE**

PERCENTAGE	DEGREE
1%	5.7°
2%	11.4°
3%	17.1°
4%	22.8°
5%	28.5°
6%	34.2°
7%	39.9°
8%	45.6°
9%	51.3°
10%	57.0°
11%	62.7°
12%	68.4°
13%	74.1°
14%	79.8°
15%	85.5°

**CONVERSION TABLES**

**GRID CONVERGENCE**  
 0° 11' 10" FOR CENTER OF SHEET

**ELLIPSOID**  
 WORLD GEODETIC SYSTEM 1984  
 GRID  
 1,000-METER UTM ZONE 14R (BLACK NUMBERED LINES)  
 PROJECTION  
 5,000-METER STATE GRID TICKS, TEXAS (SOUTH CENTRAL ZONE)  
 VERTICAL DATUM  
 UNIVERSAL TRANSVERSE MERCATOR  
 HORIZONTAL DATUM  
 NORTH AMERICAN DATUM OF 1983  
 HORIZONTAL DATUM  
 NORTH AMERICAN DATUM 1983/WORLD GEODETIC SYSTEM 1984  
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**THIS MAP IS RED-LIGHT READABLE**  
**NAD83/WGS84**

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