



Compiled from USGS 1:24 000-scale topographic maps
dated 1957–1982. Planimetry revised from aerial
photographs taken 1983 and other source data
revised information not field checked
Map edited 1985

projection and 10 000-meter grid, zone 14
Universal Transverse Mercator
5 000-foot grid ticks based on Texas coordinate
system, south central zone. 1927 North American Datum
to place on the predicted North American Datum 1983 move
the projection lines 21 meters south and 29 meters east
there may be private inholdings within the boundaries of
the National or State reservations shown on this map

INTERNATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

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CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6850
7	22.9659
8	26.2467
9	29.5276
10	32.8084

to convert meters to feet
multiply by 3.2808

to convert feet to meters
divide by 3.2808

DECLINATION DIAGRAM

UTM grid convergence
(GN and 1983 magnetic
declination (MN)
at center of map
Diagram is approximate

ADJOINING MAPS

1	2	3
4	5	
6	7	8

1 Bandera
2 New Brandeña
3 Seguin
4 Unalaska
5 Cuero
6 Crystal City
7 Pleasanton
8 Goliad

OR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
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Topographic Map Symbols

primary highway, hard surface	
secondary highway, hard surface	
road with dark gray road, gravel, street, hard or improved surface	
road or street, trail	
note marker: Interstate, U. S. or State	
road: standard gauge; narrow gauge	
road: overpass; underpass	
rail: road, railroad	
50 ft up air area; locality; elevation	
national boundary	
state boundary	
flooded or State reservation boundary	
grant boundary	
50 public lands survey: range, township; section	
road, township; section line: prehistoric	
near transmission line, pipeline	
dam with lock	
settlement; building	
drift; water well; spring	
oil; gas; shale; sand and gravel mine, quarry, gravel pit	
precipitous; picnic area; U. S. location monument	
isles; cliff dwelling	
contorted surface: strike mine, levee, sand	
water, lake, intermittent; supplementary	
hydrographic contours: inlets; intertidals	
valley line: perennial; intermittent	
pits, large and small; falls, large and small	
to be annotated; marsh, swamp	
subject subject to controlled insulation; woodland	
sub: bare, negligible	
chert; vineyard	

A pamphlet describing topographic maps is available on request.