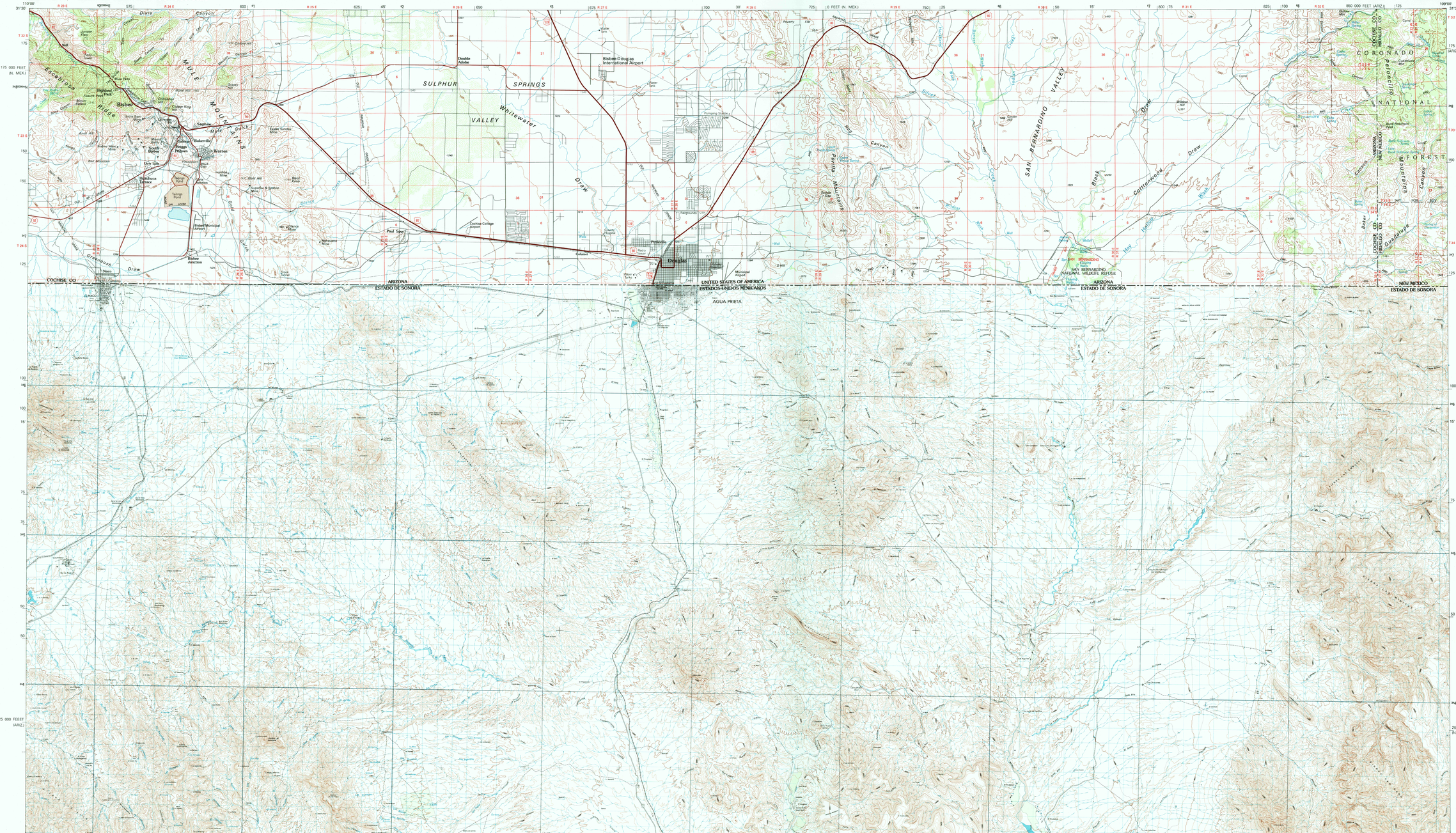
DOUGLAS, ARIZONA–NEW MEXICO–SONORA

30X60 MINUTE SERIES (TOPOGRAPHIC)



INTERIOR–GEOLOGICAL SURVEY, RESTON, VIRGINIA—1994

KILOMETERS 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

MILES 1 0 1 2 3 4 5 6 7 8 9 10 11 12 13

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 50 METERS IN THE U.S.
SUPPLEMENTARY CONTOUR INTERVAL 25 METERS
CONTOUR INTERVAL 20 METERS IN MEXICO

1000 0 5000 10 000 15 000 20 000 METERS

5000 0 10 000 20 000 30 000 40 000 50 000 60 000 70 000 FEET

DOUGLAS, ARIZONA–NEW MEXICO–SONORA

31109-A1-TM-100

1994

USGS
science for a changing world

Douglas

ARIZONA–NEW MEXICO–SONORA

1:100 000-scale *metric*
topographic map

30 X 60 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names

GEOLOGICAL SURVEY

1994

Produced by the United States Geological Survey

U.S. portion compiled from USGS 1:24 000-scale topographic maps dated 1957–1985. Planimetry revised from aerial photographs taken 1991 and other source data. Revised information not field checked
Mexico portion derived from DGG 1:50,000–scale topographic map dated 1975-1982, Naco H12B34, Agua Prieta H12B35, San Bernardino H12B36, Cuauhtemoc H12B44, El Progreso H12B45, Dieciocho De Agosto H12B46
Map edited 1994

North American Datum of 1927 (NAD 27). Projection and 10 000-meter-grid: Universal Transverse Mercator, zone 12
25 000-foot ticks: Arizona coordinate system, east zone and New Mexico coordinate system, west zone

The values of the shift between NAD 27 and North American Datum of 1983 (NAD 83) for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software. Mexico portion is NAD 27

There may be private inholdings within the boundaries of the National or State reservations in the U.S. portion shown on this map

CONTOUR INTERVAL 50 METERS IN THE UNITED STATES
SUPPLEMENTARY CONTOUR INTERVAL 25 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO NEAREST METER
CONTOUR INTERVAL 20 METERS IN MEXICO
DATUM IS MEAN SEA LEVEL

THE U.S. PORTION OF THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

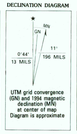
CONVERSION TABLE

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1234
5	16.4042
6	19.6851
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 multiply by 0.3048

DECLINATION DIAGRAM



UTM grid convergence (GN) and 1994 magnetic declination (MN) at center of map
Diagram is approximate

ADJOINING MAPS

1	2	3
4		5
6	7	8

1 Fort Huachuca
2 Chiricahua Peak
3 Animas
4 Nogales
5 Alamo Hueco Mts
6
7
8

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USGS NMD
HISTORICAL MAP ARCHIVES

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Topographic Map Symbols

Primary highway, hard surface
Secondary highway, hard surface
Light duty road, principal street, hard or improved surface
Other road or street; trail
Route marker: Interstate; U. S.; State
Railroad: standard gage; narrow gage
Bridge; overpass; underpass
Tunnel: road; railroad
Built-up area; locality; elevation
Airport; landing field; landing strip
National boundary
State boundary
County boundary
National or State reservation boundary
Land grant boundary
U. S. public lands survey: range, township; section
Range, township; section line: protracted
Power transmission line; pipeline
Dam; dam with lock
Cemetery; building
Windmill; water well; spring
Mine shaft; adit or cave; mine, quarry; gravel pit
Campground; picnic area; U. S. location monument
Ruins; cliff dwelling
Distorted surface: strip mine, levy, sand
Contours: index; intermediate; supplementary
Bathymetric contours: index; intermediate
Stream, lake: perennial; intermittent
Rapids, large and small; falls, large and small
Area to be submerged; marsh, swamp
Land subject to controlled inundation; woodland
Scrub; mangrove
Orchard; vineyard

A pamphlet describing topographic maps is available on request

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