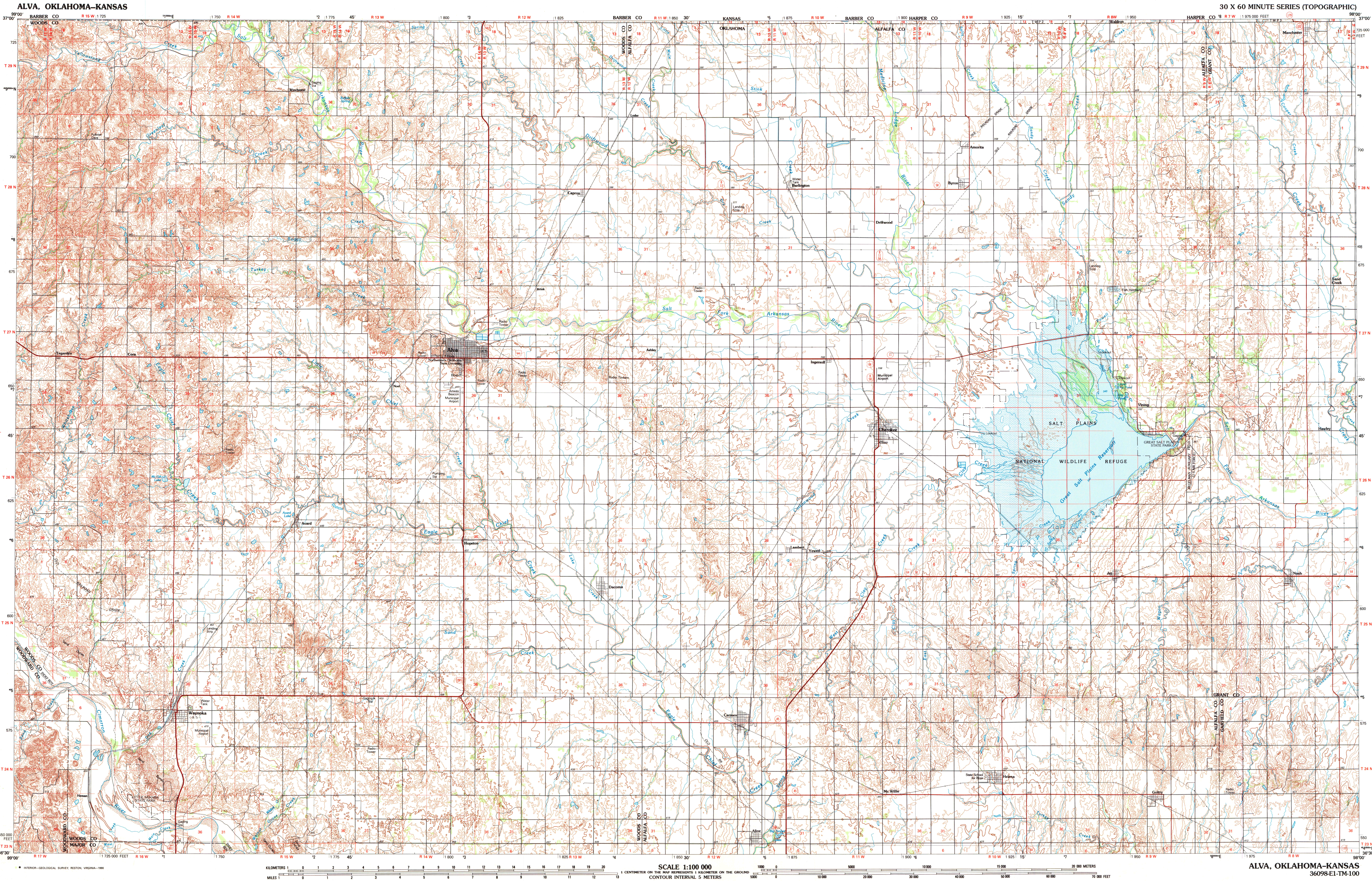
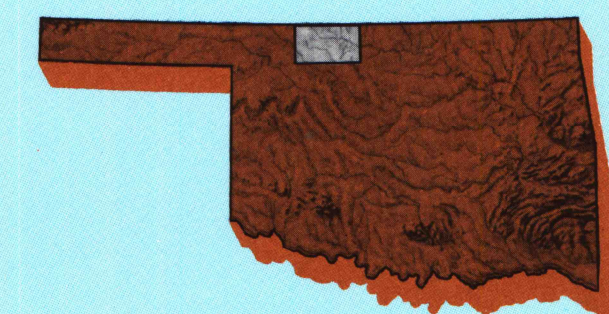




Alva

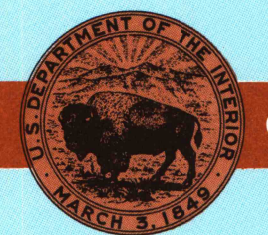
OKLAHOMA-KANSAS

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

1990

Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1968-1969. Planimetry revised from aerial photographs taken 1967-68 and other source data. Revised information not field checked. Map edited 1990.

Projection and 10 000-meter grid, zone 14, Universal Transverse Mercator

25 000-foot grid ticks based on Oklahoma coordinate system, north zone

1927 North American Datum

To place on the predicted North American Datum 1983, move the projection lines 1 meter south and 31 meters east

There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL: 5 METERS

NATIONAL GEODETIC VERTICAL DATUM OF 1929

ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS		
Meters	Feet		1	2	3
1	3.281		4	5	6
2	6.562		7	8	
3	9.843				
4	13.124				
5	16.405				
6	19.686				
7	22.967				
8	26.248				
9	29.529				
10	32.810				
To convert meters to feet multiply by 3.281		UTM grid convergence (GM) and 100 magnetic declination at center of map			
To convert feet to meters multiply by 0.3048		Diagram is approximate			

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

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, protected	
Power transmission line; pipeline	
Dam; dam with lock	
Cemetery; building	
Washed; water well; spring	
Mine shaft; not or cone mine, quarry; gravel pit	
Campground; picnic area; U. S. location monument	
Ruins; cliff dwelling	
Disturbed surface: strip mine, lava, sand	
Contour: index, intermediate, supplementary	
Barometric contour: 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	
Soils: mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request

3606-9823
SET

ALVA, OKLAHOMA-KANSAS
36098-E1-TM-100

1990