UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

UNITED STATES
DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

COBDEN QUADRANGLE
ILLINOIS
7.5 MINUTE SERIES (TOPOGRAPHIC)
SE/4 ALTO PASS 15' QUADRANGLE

3159 III NW (GORHAM)
3159 III NE (POMONA)
3159 II NW (CARBONDALE)
3159 II SW (WOLF LAKE)
3159 II SE (MAKANDA)
3158 IV NW (WARE)
3158 IV SW (ANNA)
3158 IV NE (JONESBORO)

PINCKNEYVILLE 34 MI.
MURPHYSBORO 10 MI.
CARBONDALE 11 MI.
DU QUOIN 31 MI.
JONESBORO 4.9 MI.
CAIRO 39 MI.
ANNA 2.9 MI.
CAIRO 40 MI.

R. 2 W. R. 1 W.

89°22'30" 37°37'30"
89°15' 37°37'30"
37°30' 89°22'30"
37°30' 89°15'
32'30"
35'
20'
17'30"

760 000 FEET
350 000 FEET
740 000 FEET
310 000 FEET

291 000m E.
299 000m E.
4166 000m N.
4153 000m N.

T. 10 S.
T. 11 S.
T. 12 S.

POMONA
MAKANDA
SHAWNEE NATIONAL FOREST
TRAIL OF TEARS STATE FOREST
Mountain

CEDAR LAKE
Boat Ramp
NORMAL POOL ELEVATION 432

JACKSON CO
UNION CO

Alto Pass
(BM 757)
Cobden
(BM 616)
Makanda
Hagler Cem
Stearns Cem
Mt Pleasant Ch
Collins Cem
Union Springs Church
Limestone Church
Mt Tabor Cem
Mountain Glen
Walnut Grove Church
Kaolin
Bald Knob
Lookout Tower
BM 541
BM 857

Creek
Cave
Branch
Hollow
Mill
Clear
Dry
Hutchins
Milligan Hill
Ramberger

HIGHWAY 127
HIGHWAY 121
DIAMOND
BLACK
CHAMPERS
CEDAR
FOREST
NATIONAL

Mapped, edited, and published by the Geological Survey

Control by USGS and NOS/NOAA

Topography from aerial photographs by multiplex methods and by plane-table surveys 1947
Aerial photographs taken 1946

Polyconic projection. 1927 North American Datum
10,000 foot grid based on Illinois Coordinate System, West Zone
1000-meter Universal Transverse Mercator grid ticks, zone 16, shown in blue

To place on the predicted North American Datum 1983, move the projection lines 3 meters south and 7 meters east as shown by dashed corner ticks

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

UTM GRID AND 1990 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
GN MN
1° 24' 25 MILS
⅞° 9 MILS

SCALE 1:24 000
1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092
AND ILLINOIS GEOLOGICAL SURVEY, CHAMPAIGN, ILLINOIS 61820
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ILLINOIS
QUADRANGLE LOCATION

Revisions shown in purple compiled in cooperation with U.S. Forest Service from aerial photographs taken 1988 and other sources. Partially field checked by U.S. Forest Service. Map edited 1990

ROAD CLASSIFICATION

Primary highway, all weather, hard surface	Light-duty road, all weather, improved surface
Secondary highway, all weather, hard surface	Unimproved road, fair or dry weather
Interstate Route	U. S. Route / State Route

COBDEN, ILL.
SE/4 ALTO PASS 15' QUADRANGLE
37089-E3-TF-024

1947
PHOTOREVISED 1990
DMA 3159 III SE - SERIES V863

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1990

RETURN TO:
NMD HISTORICAL MAP ARCHIVES
USGS NATIONAL CENTER, MS-522
RESTON, VA 22092
11 JUN 1991