



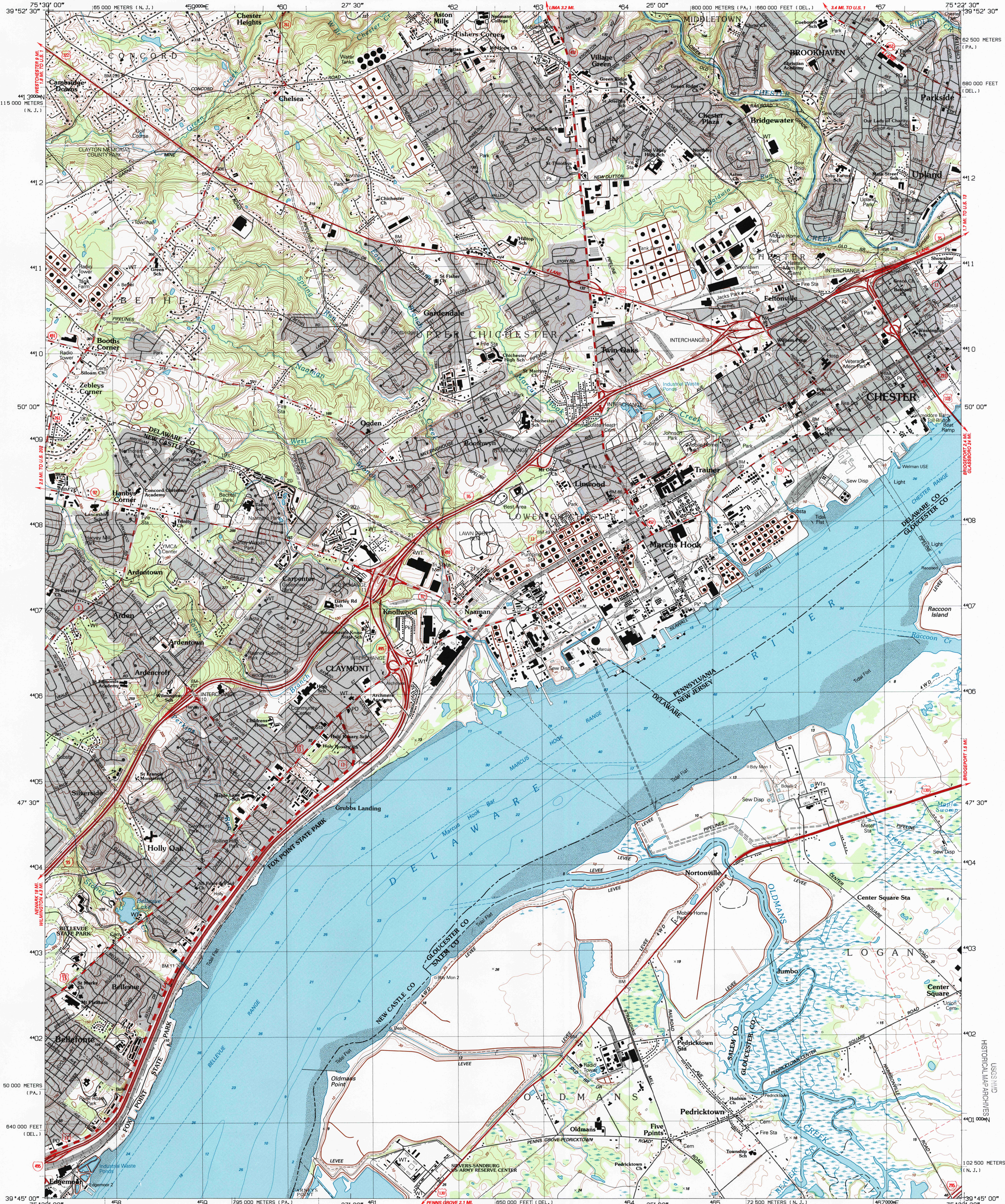
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



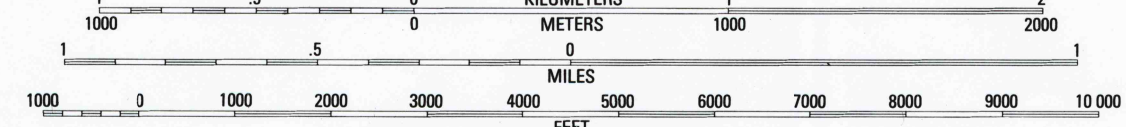
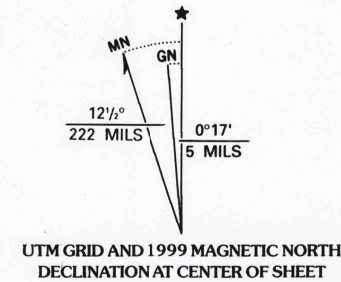
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
BUREAU OF TOPOGRAPHIC AND GEOLOGIC SURVEY

STATE OF DELAWARE
DELAWARE GEOLOGICAL SURVEY

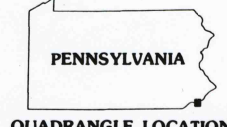
MARCUS HOOK QUADRANGLE
PENNSYLVANIA-NEW JERSEY-DELAWARE
7.5 MINUTE SERIES (TOPOGRAPHIC)



Produced by the United States Geological Survey
in cooperation with Pennsylvania Department of Conservation
and Natural Resources, Bureau of Topographic and Geologic Survey
Derived from imagery taken 1989 and other sources. Photorectified
using imagery taken 1995; no major culture or drainage changes
observed. Survey control current as of 1991
Boundaries, other than corporate, revised 1999
Selected hydrographic data compiled from NOS Chart 295 (1967)
This information is not intended for navigational purposes
North American Datum of 1983 (NAD 83). Projection and
1000-meter grid. Universal Transverse Mercator, zone 18
2 500-meter ticks: Pennsylvania Coordinate System of 1983, (south zone)
2 500-meter ticks: New Jersey Coordinate System of 1983
10 000-foot ticks: Delaware Coordinate System of 1983
North American Datum of 1927 (NAD 27) is shown by dashed
corner ticks. The values of the shift between NAD 83 and NAD 27
for 7.5-minute intersections are obtainable from National Geodetic
Survey NADCON software
There may be private inholdings within the boundaries of
the National or State reservations shown on this map



CONTOUR INTERVAL 10 FEET
NATIONAL GEOLOGIC VERTICAL DATUM OF 1929 (NGVD29)
TO CONVERT ELEVATIONS FROM FEET TO METERS, MULTIPLY BY 0.3048
(TO CONVERT ELEVATIONS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, SUBTRACT 1 FOOT)
DEPTH CURVES AND SOUNDINGS IN FEET, DATUM IS MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
THE MEAN RANGE OF TIDE IS 5.6 FEET
THIS MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, P.O. BOX 25286, DENVER, COLORADO 80225
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



1	2	3	4	5	6	7	8
1 West Chester	2 Media	3 Lansdowne	4 Wilmington North	5 Bridgeport	6 Wilmington South	7 Penna Grove	8 Woodstown

ROAD CLASSIFICATION
Primary highway, hard surface Light-duty road, hard or improved surface
Secondary highway, hard surface Unimproved road
Interstate Route U.S. Route State Route

MARCUS HOOK, PA.-N.J.-DEL.

1995

NIMA 5963 IV SW-SERIES V831

RECEIVED
APR 8 0 2000
USGS NAD
HISTORICAL MAP ARCHIVES

