

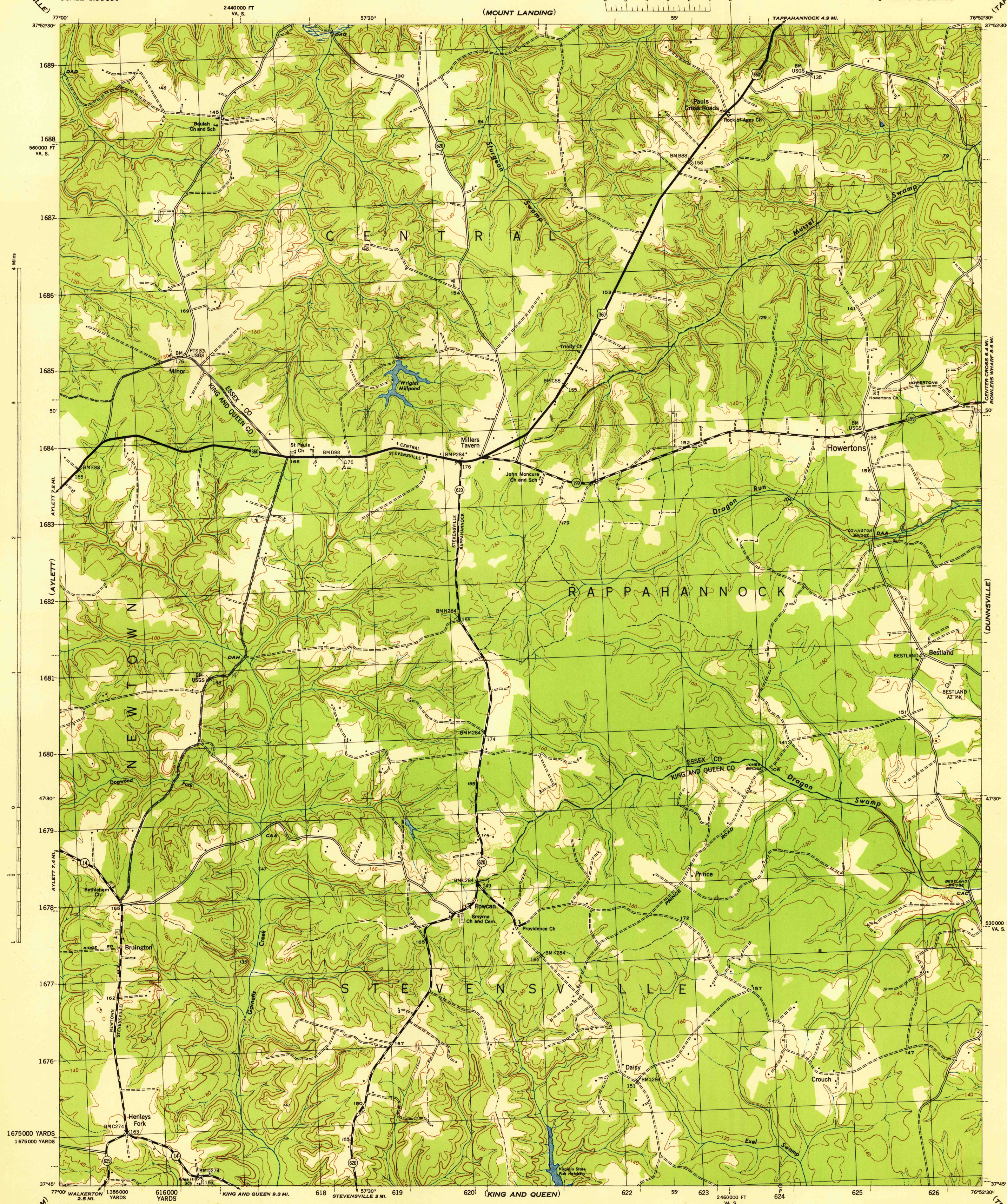
(CAUTHORVILLE)

VIRGINIA  
SCALE 1:31680

WAR DEPARTMENT  
CORPS OF ENGINEERS, U. S. ARMY

HOWERTONS QUADRANGLE  
7½-MINUTE SERIES

(TAPPAHANNOCK)



Maped by the U. S. Coast and Geodetic Survey under the direction of the Chief of Engineers, U. S. Army, 1942. Control by U.S.C. & G.S. and U.S.C. & G.S. Planimetry by U.S.C. & G.S. from 1942 air photographs. Polyconic projection, North American datum of 1927. Recoverable horizontal control stations of less than third order accuracy are shown by circles.

**ROAD AND BRIDGE CLASSIFICATION 1944**

Dependable hard-surface, heavy-duty road. Loose-surface graded, dry-weather road. U. S. route 71

Secondary, hard-surface, all-weather road. Dirt road. State route 26

More than two lanes indicated by note along road with tick at point of change. 3 LANE 1 1/2 LANE

THIS MAP COMPLIES WITH THE NATIONAL STANDARD MAP ACCURACY REQUIREMENTS

Scale 1:31680

CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

ONE THOUSAND YARD GRID COMPUTED FROM "GRID SYSTEM FOR PROGRESSIVE MAPS IN THE U. S. ZONE A, U. S. C. & G. S. SPECIAL PUBLICATION NO. 99" THE GRID IS INDICATED BY DASHED LINES. THE LAST THREE DIGITS OF THE GRID NUMBERS ARE OMITTED. THE STATE GRID IS INDICATED AT 10,000 FOOT INTERVALS.

NOTE: OFFICERS USING THIS MAP WILL MAKE REVISIONS AND ADDITIONS WHICH COME TO THEIR ATTENTION AND MAIL DIRECT TO "THE CHIEF OF ENGINEERS, WASHINGTON, D. C."

REPRODUCED BY THE U. S. COAST AND GEODETIC SURVEY, ARS NO. 121518

**WOODLAND CLASSIFICATION**

Dense woodland Dense brush  
Scattered brush and trees Orchard  
Marsh or swamp Low ground, intermittently flooded

APPROXIMATE MEAN DECLINATION 1944  
NO ANNUAL MAGNETIC CHANGE

Use diagram only to obtain numerical values. To determine magnetic north line, connect the point "P" on the south edge of the map with the value of the angle between GRID NORTH and MAGNETIC NORTH, as plotted on the degree scale at the north edge of the map.

HOWERTONS, VA.  
N3745-W7652.5/7.5  
EDITION OF 1945

USGS  
Historical File  
Topographic Division

(TRUHART)