

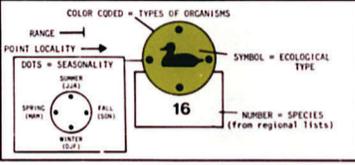
**DELAWARE, NEW JERSEY, & PENNSYLVANIA**  
SHORELINE TYPES

- |            |   |
|------------|---|
| 1          | ROCKY HEADLANDS (NOT PRESENT)             |
| 2          | ERODING BLUFFS                            |
| 3          | FINE-SAND BEACHES                         |
| 4          | MEDIUM- TO COARSE-SAND BEACHES            |
| 5          | MIXED SAND AND GRAVEL BEACHES             |
| 6A         | GRAVEL BEACHES                            |
| 6B         | RIPRAP (BOULDER) STRUCTURES               |
| 7          | EXPOSED TIDAL FLATS (SANDY)               |
| 8          | RIVERINE BANKS WITH GRASSES OR TREES      |
| 9          | SHelterED TIDAL FLATS                     |
| 10         | MARSHES OR WETLANDS                       |
| (UNRANKED) | HARBOR STRUCTURES (PIERS, SEAWALLS, ETC.) |

**BIOLOGICAL FEATURES**

- |  |                |  |                  |  |                         |
|--|----------------|--|------------------|--|-------------------------|
|  | <b>BIRDS</b>   |  | <b>SHELLFISH</b> |  | <b>FISH</b>             |
|  | GULLS OR TERNS |  | CLAMS            |  | MARINE                  |
|  | WADING BIRDS   |  | OYSTERS          |  | RIVERINE AND ANADROMOUS |
|  | SHOREBIRDS     |  | CRABS            |  | FLATFISH                |
|  | WATERFOWL      |  | LOBSTERS         |  |                         |

**KEY TO WILDLIFE MARKERS**

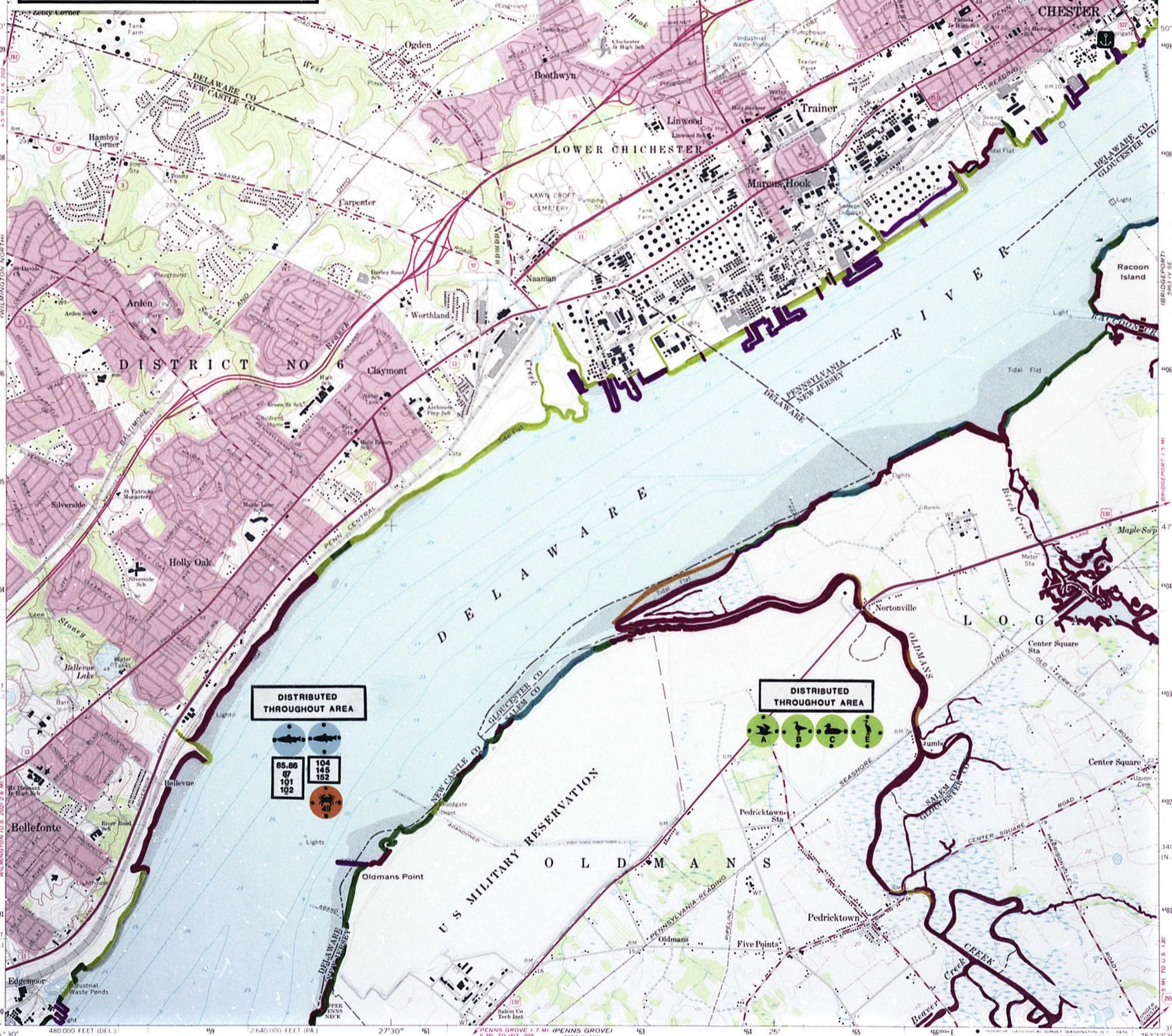


**SOCIOECONOMIC FEATURES**

- |  |                         |  |  |
|--|-------------------------|--|--|
|  | MARINAS AND YACHT CLUBS |  | PARKS, RECREATIONAL AREAS AND WILDLIFE REFUGES |
|  | BOAT RAMPS              |  |  |

**SPILL-RESPONSE FEATURES**

- |  |       |  |                     |
|--|-------|--|---------------------|
|  | BOOMS |  | OPEN WATER SKIMMERS |
|--|-------|--|---------------------|



**DISTRIBUTED THROUGHOUT AREA**

- |  |        |  |     |
|--|--------|--|-----|
|  | 85, 86 |  | 104 |
|  | 87     |  | 145 |
|  | 101    |  | 152 |
|  | 102    |  |     |

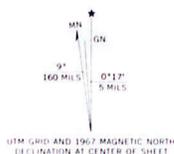
**DISTRIBUTED THROUGHOUT AREA**

- |  |   |  |   |  |   |  |   |
|--|---|--|---|--|---|--|---|
|  | A |  | B |  | C |  | D |
|--|---|--|---|--|---|--|---|

Mapped, edited, and published by the Geological Survey

**rpi inc.**  
Research Planning Institute, Inc.  
925 Census Street  
Columbia, South Carolina, USA 29201  
(803) 256-7322

Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is uncheckered. Red tint indicate areas in which only landmark buildings are shown.



CONTOUR INTERVAL 10 FEET  
DATUM IS MEAN SEA LEVEL  
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER  
SHORELINE SYMBOLS REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER. THE MEAN RANGE OF TIDE IS APPROXIMATELY 5.6 FEET.

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D.C. 20242  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ADJOINS MAP #21

**ESI MAP #22**

MARCUS HOOK, PA.—N.J.—DEL.  
SW/4 CHESTER 15 QUADRANGLE  
N 3945—W 7522 5/7.5

1967

AMS 5965 IV SW—SERIES V831

ADJOINS MAP #23