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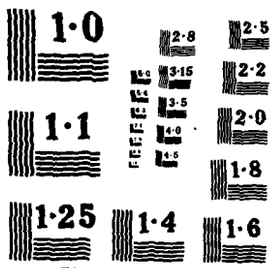
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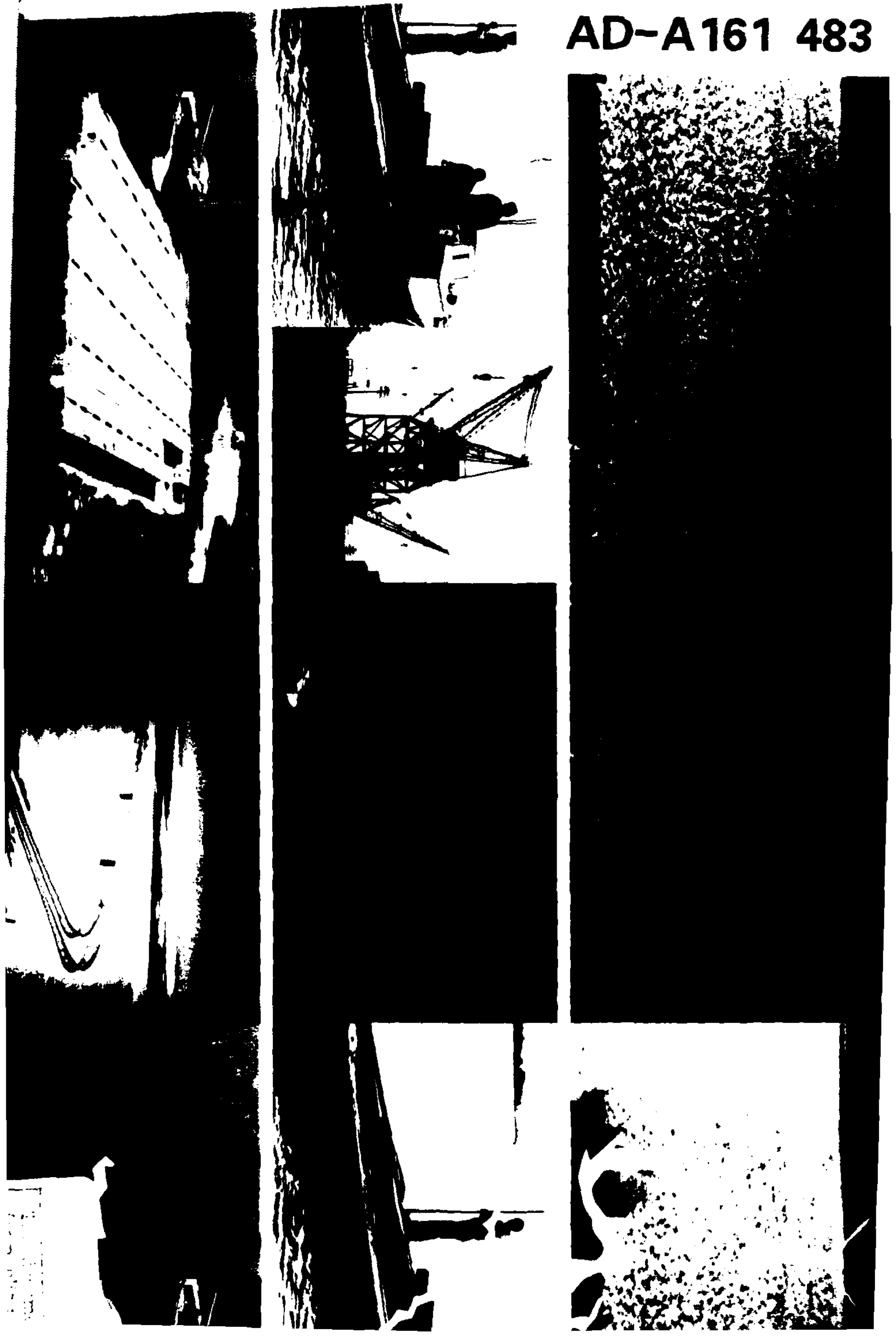

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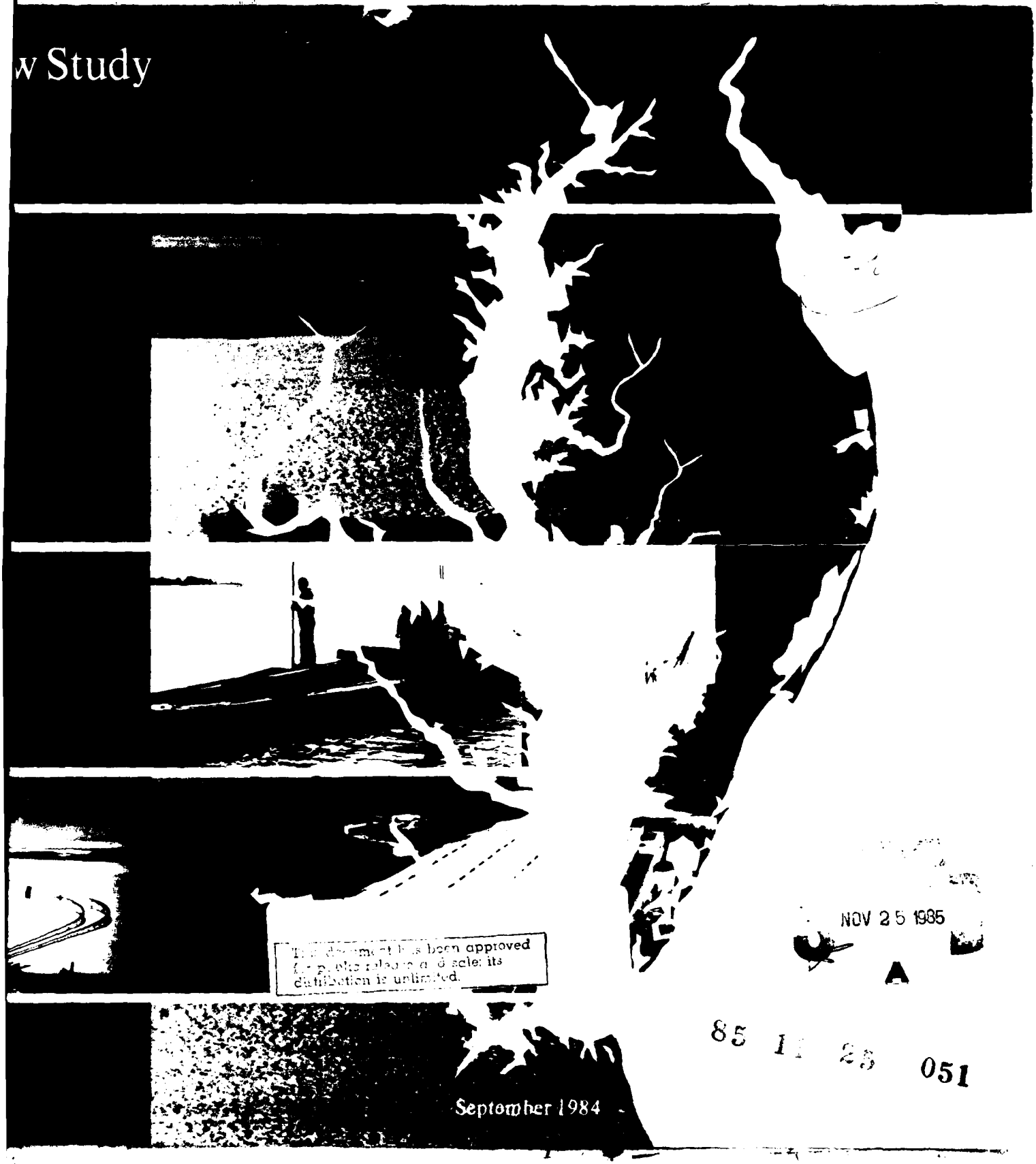

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REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
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4. TITLE (and Subtitle) Chesapeake Bay Low Freshwater Inflow Study ~~Main Report, Appendices, Appendix F~~ Appendix F	5. TYPE OF REPORT & PERIOD COVERED
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18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Chesapeake Bay, low freshwater inflow, low flow, hydraulic model, estuary, water supply, water demand, water withdrawal, consumptive loss, biota, habitat, nutrients, salinity, drought, drought management, ecosystem, plankton, tributary, water conservation

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Chesapeake Bay is a complex estuarine system that is dependent on the freshwater inflow from its tributaries to maintain the salinity regime that characterizes its ecosystem.

Increasing population and economic growth in the Bay drainage area is predicted to result in increased water supply demands and attendant increases in the amount of water used consumptively. This will cause a marked reduction in freshwater inflow to the Bay and result in higher salinities throughout the Bay

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20. ABSTRACT

system. In the long term, salinities would be expected to increase by as much as 2 to 4 ppt.

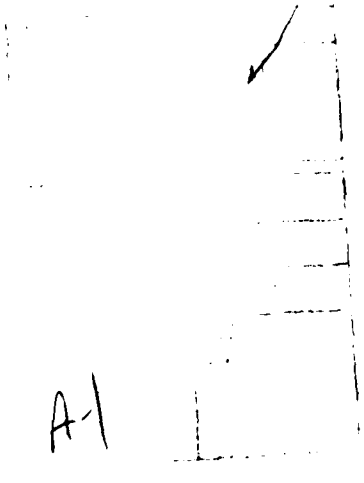
The Low Freshwater Inflow Study methodology involved selecting representative species for study, mapping potential habitat under various conditions, using expert scientists to interpret the significance of habitat change, and assessing socio-economic and environmental impacts of the changes.

While no specific plan was developed to solve the problems caused by reduced freshwater inflows, several alternatives were identified as "most promising". These include reservoir storage, conservation, growth restriction, oyster bed restoration, and fisheries management.

The final report recommends that a comprehensive water supply and drought management study be conducted that will identify those measures required to optimize the use of existing water supplies in the Bay drainage basin and minimize reductions in freshwater inflow to the Bay.

Chesapeake Bay Low Freshwater Inflow Study

APPENDIX F - MAP FOLIO



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US Army Corps of Engineers
Baltimore District

Study

(20)

September 1984

Foreword

This is one of the volumes comprising the final report on the Corps of Engineers' Chesapeake Bay Study. The report represents the culmination of many years of study of the Bay and its associated social, economic, and environmental processes and resources. The overall study was done in three distinct developmental phases. A description is provided below of each study phase, followed by a description of the organization of the report.

The initial phase of the overall program involved the inventory and assessment of the existing physical, economic, social, biological, and environmental conditions of the Bay. The results of this effort were published in a seven volume document titled *Chesapeake Bay Existing Conditions Report*, released in 1973. This was the first publication to present a comprehensive survey of the tidal Cheapeake and its resources as a single entity.

The second phase of the program focused on projection of water resource requirements in the Bay Region for the year 2020. Completed in 1977, the *Chesapeake Bay Future Conditions Report* documents the results of that work. The 12-volume report contains projections for resources categories such as navigation, recreation, water supply, water quality, and land use. Also presented are assessments of the capacities of the Bay system to meet the identified future requirements, and an identification of problems and conflicts that may occur with unrestrained growth in the future.

In the third and final study phase, two resource problems of particular concern in Chesapeake Bay were addressed in detail: low freshwater inflow and tidal flooding. In the Low Freshwater Inflow study, results of testing on the Chesapeake Bay Hydraulic Model were used to assess the effects on the Bay of projected future depressed freshwater inflows. Physical and biological changes were quantified and used in assessments of potential social, economic, and environmental impacts. The Tidal Flooding Study included development of preliminary state-damage relationships and identificatoin of Bay communities in which structural and nonstructural measures could be beneficial.

The final report of the Chesapeake Bay Study is composed of three major elements: (1) Summary, (2) Low Freshwater Inflow Study, and (3) Tidal Flooding Study. The *Chesapeake Bay Study Summary Report* includes a description of the results, findings, and recommendations of all the above described phases of the Chesapeake Bay Study.

Summary Report
Supplement A—Problem Identification
Supplement B—Public Involvement
Supplement C—Hydraulic Model

The *Low Freshwater Inflow Study* consists of a Main Report and six supporting appendices. The report includes:

Main Report
Appendix A—Problem Identification
Appendix B—Plan Formulation
Appendix C—Hydrology
Appendix D—Hydraulic Model Test
Appendix E—Biota
Appendix F—Map Folio

The *Tidal Flooding Study* consists similarly of a Main Report and six appendices. The report includes:

Main Report
Appendix A—Problem Identification
Appendix B—Plan Formulation, Assessment, and Evaluation
Appendix C—Recreation and Natural Resources
Appendix D—Social and Cultural Resources
Appendix E—Engineering, Design, and Cost Estimates
Appendix F—Economics

Introduction

This appendix is a principal product of the Biota Assessment portion of the Corps of Engineers' Chesapeake Bay Low Freshwater Inflow Study. The purpose of the mapping is to portray habitat for selected Chesapeake Bay species under a variety of freshwater inflow conditions. They are based on the results of tests done on the Chesapeake Bay Hydraulic Model simulating four freshwater inflow conditions. These were:

1) Base Average—average freshwater inflow conditions;
2) Future Average—reflective of average inflow conditions reduced by increased water consumption projected for the year 2020;
3) Base Drought—simulating an actual drought in the 1960's;
4) Future Drought—simulated 1960's drought inflows, reduced by increased water consumption projected for the year 2020.

Data from the hydraulic model tests were subsequently used to generate seasonal average salinities at various depths from the mouth of the Bay to the head of tide in each tributary. These salinity data, in conjunction with data on depth, substrate, and dependence on other organisms, were used to create the maps of habitat portrayed in this volume. For further discussion of the information presented herein, the reader is referenced to Appendix E, Biota and the Chesapeake Bay Low Freshwater Inflow Study Biota Assessment, Phase II; Final Repot, May 1982, prepared by Western Eco-Systems Technology for the Corps of Engineers.

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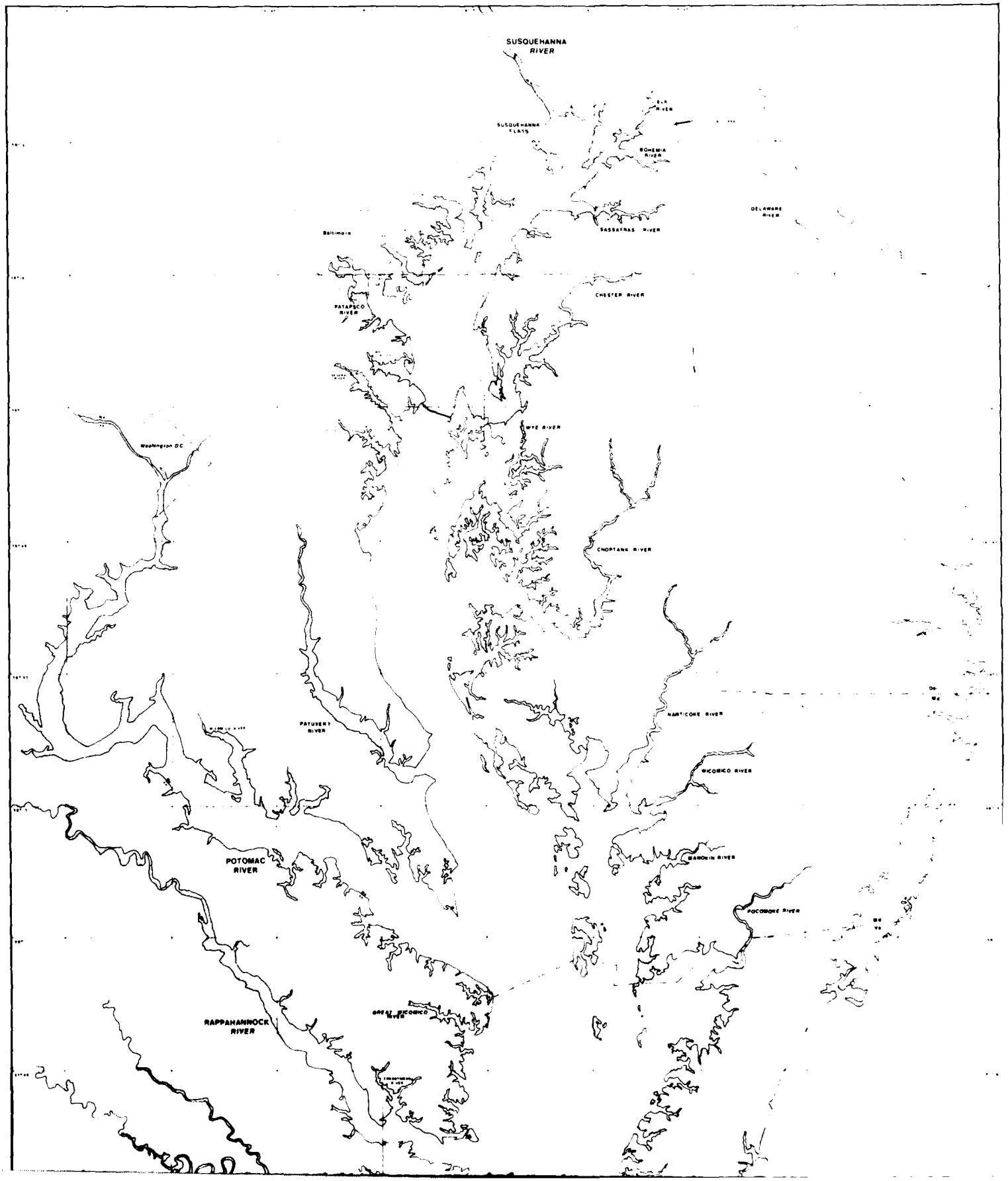
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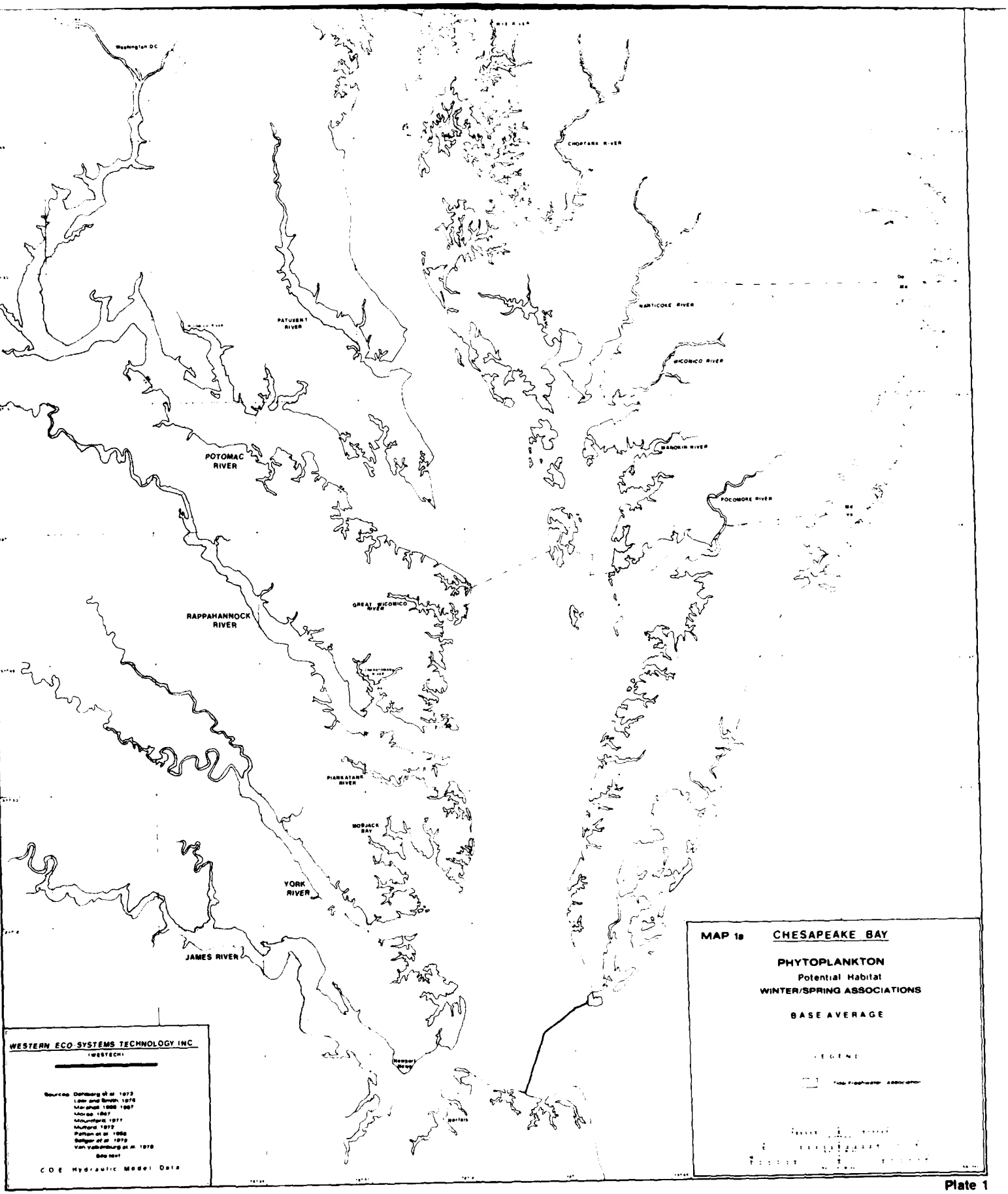
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MOBJACK BAY
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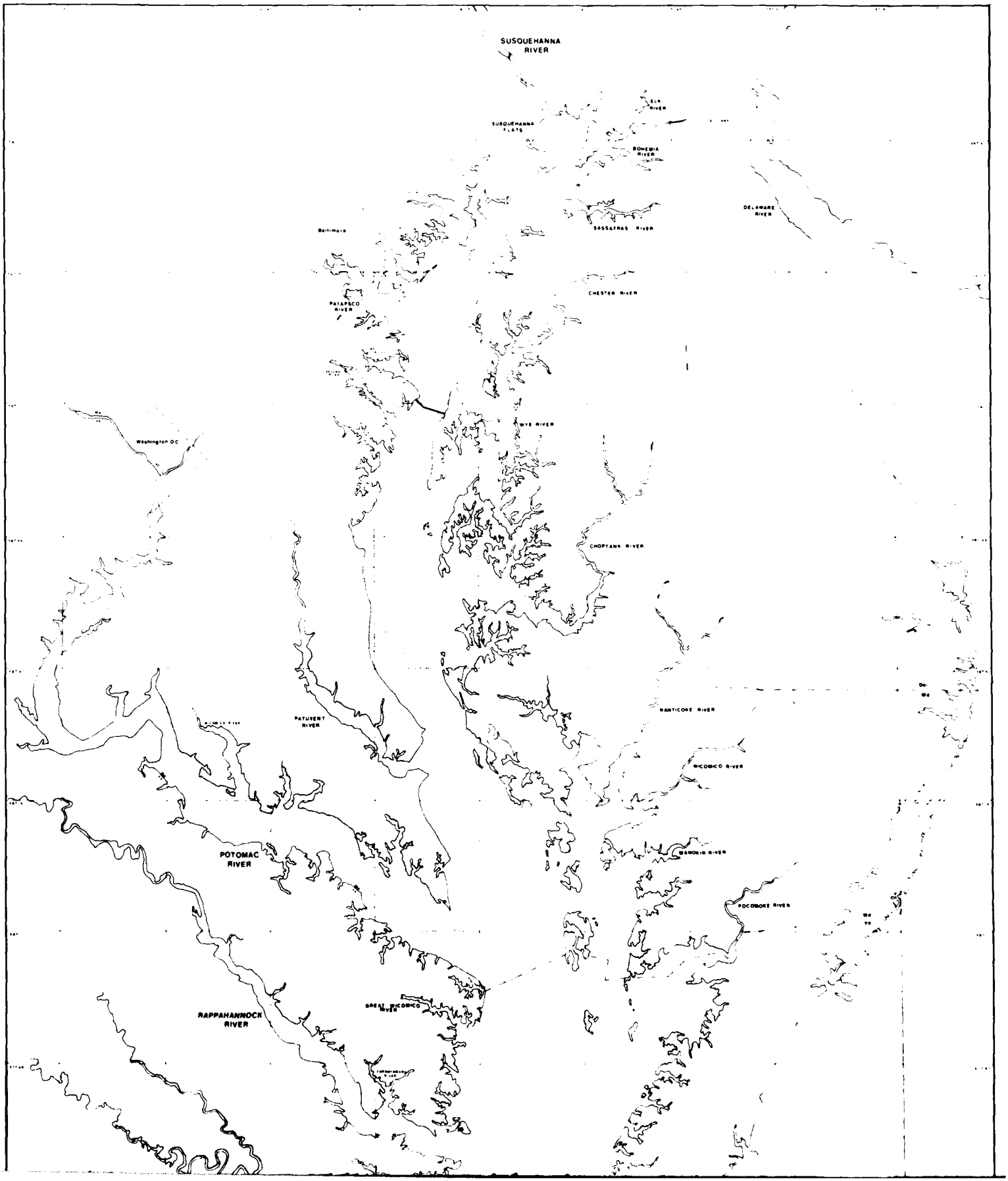
Potential Habitat
WINTER/SPRING ASSOCIATIONS
BASE AVERAGE
LEGEND
WESTERN ECO SYSTEMS TECHNOLOGY INC
(WESTECH)
COE Hydraulic Model Data

Plate 1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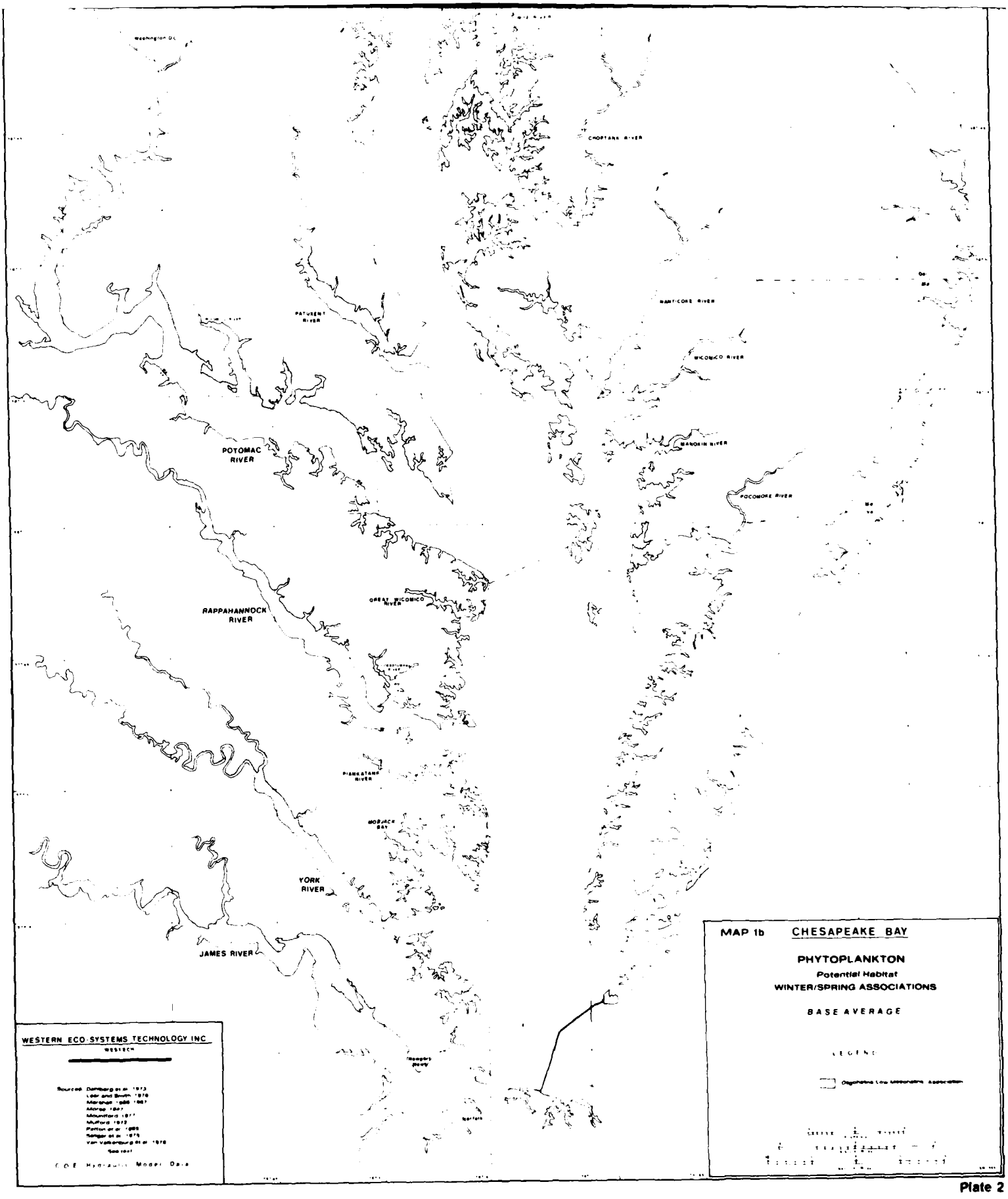
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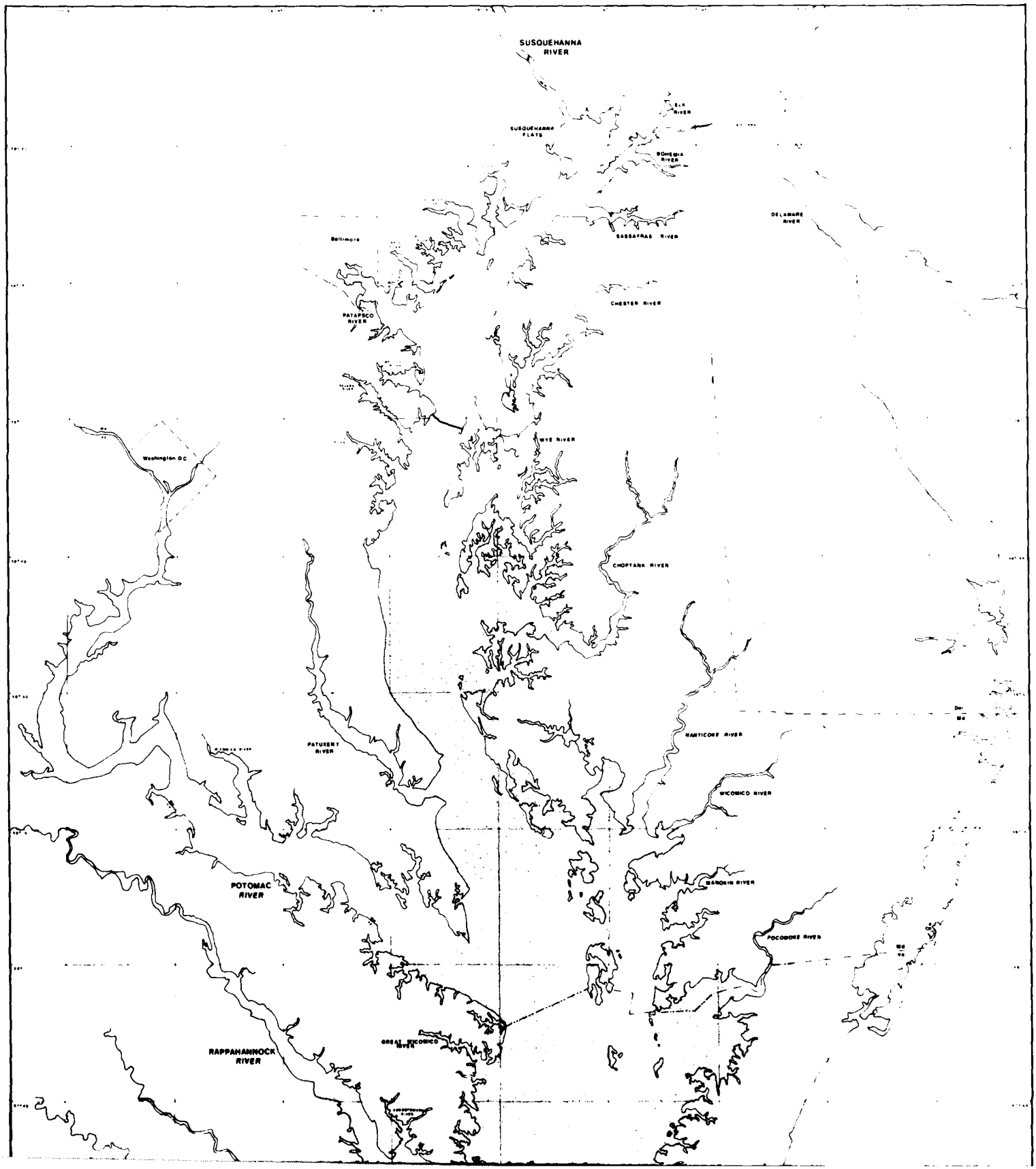
Plate 2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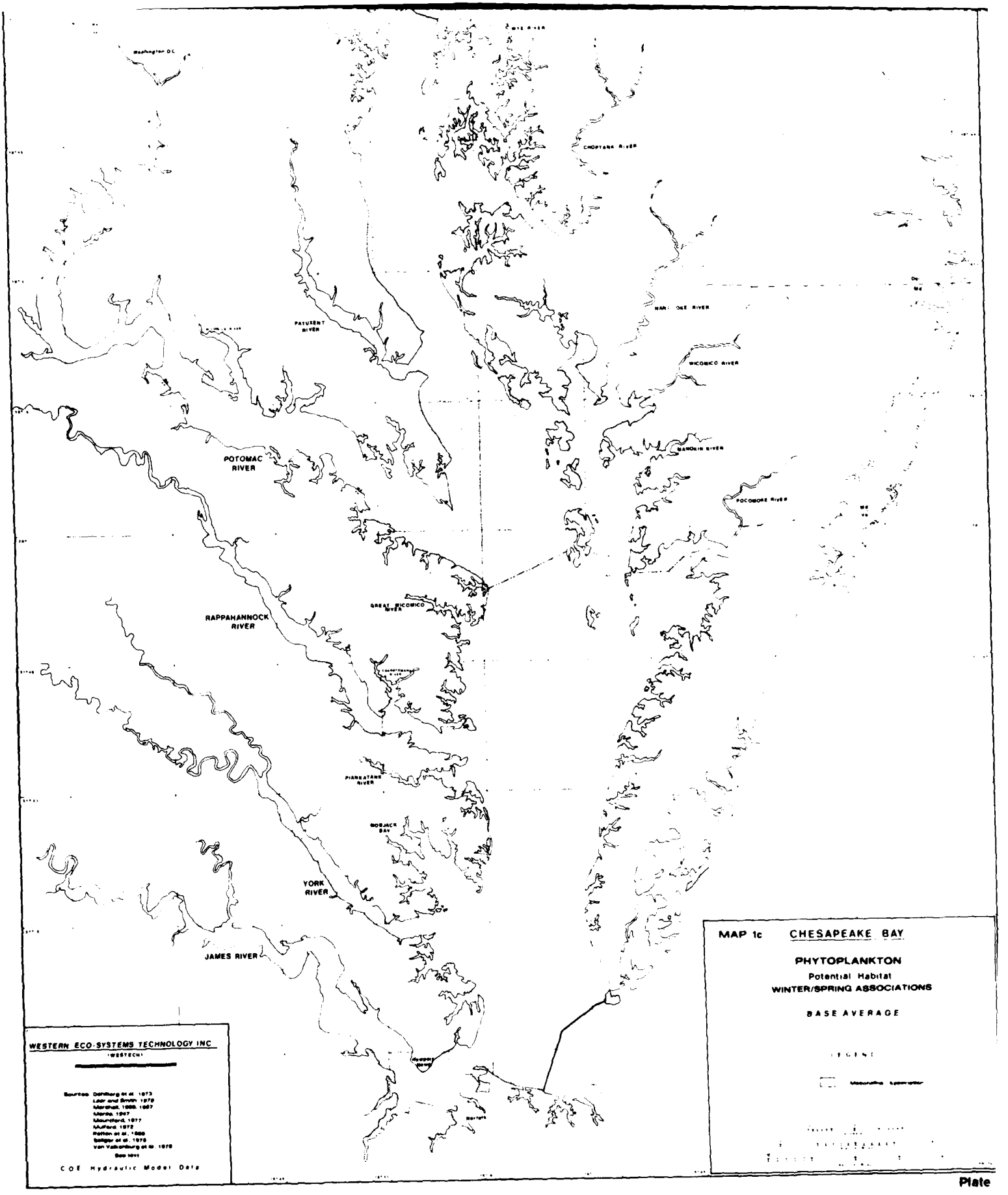
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(WESTECH)
COE Hydraulic Model Data
MAP 1c CHESAPEAKE BAY
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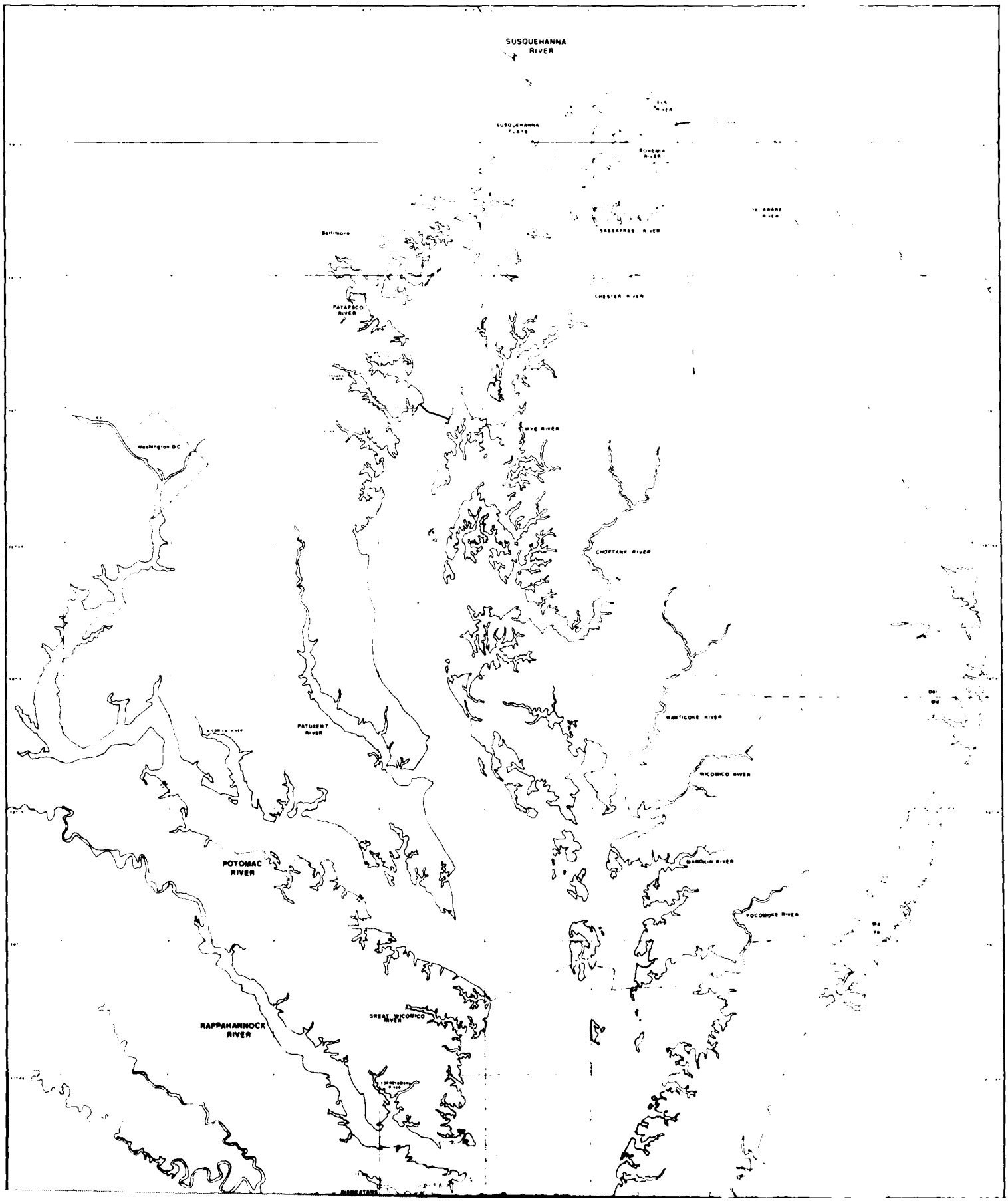
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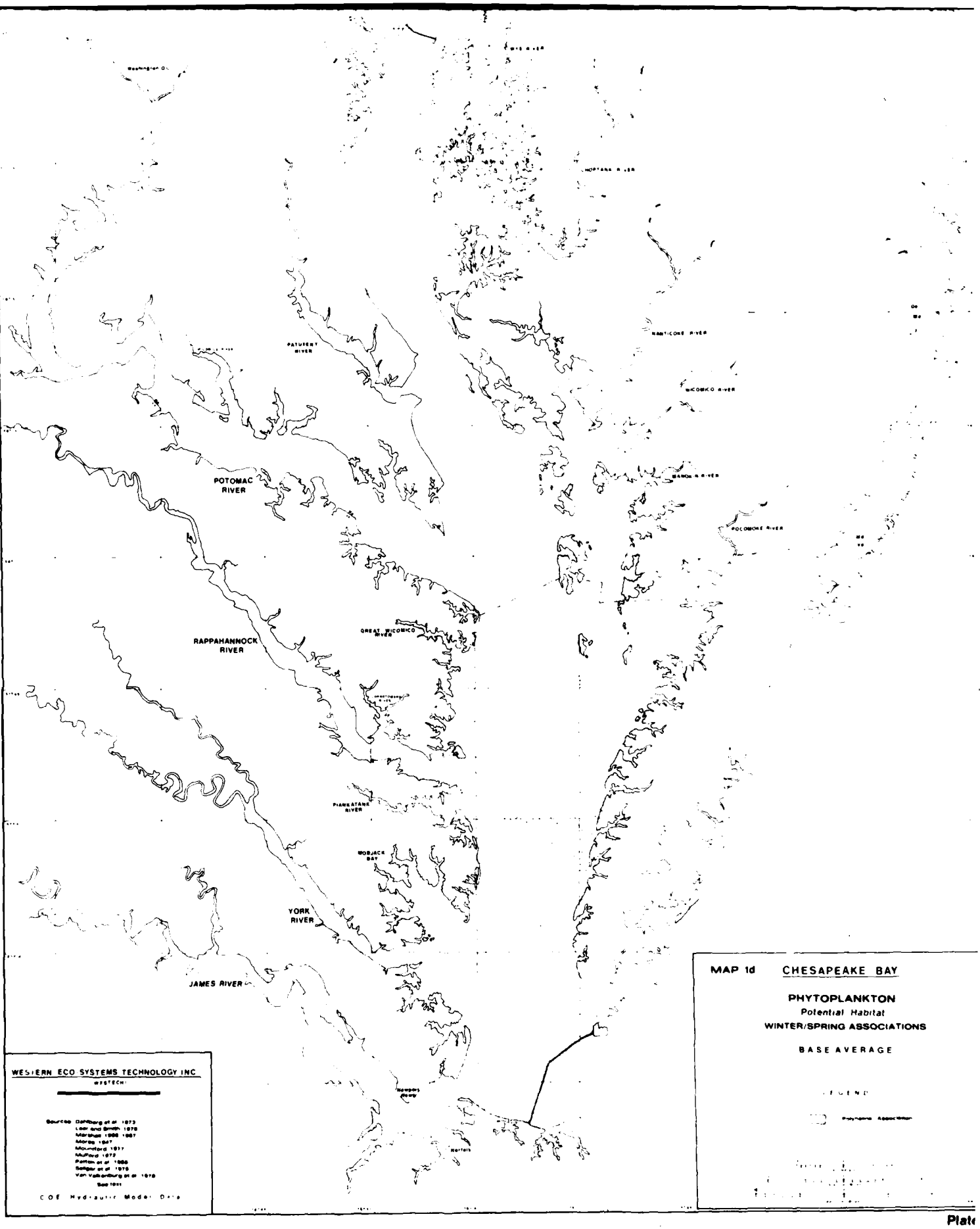
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COE Hydraulic Model Data

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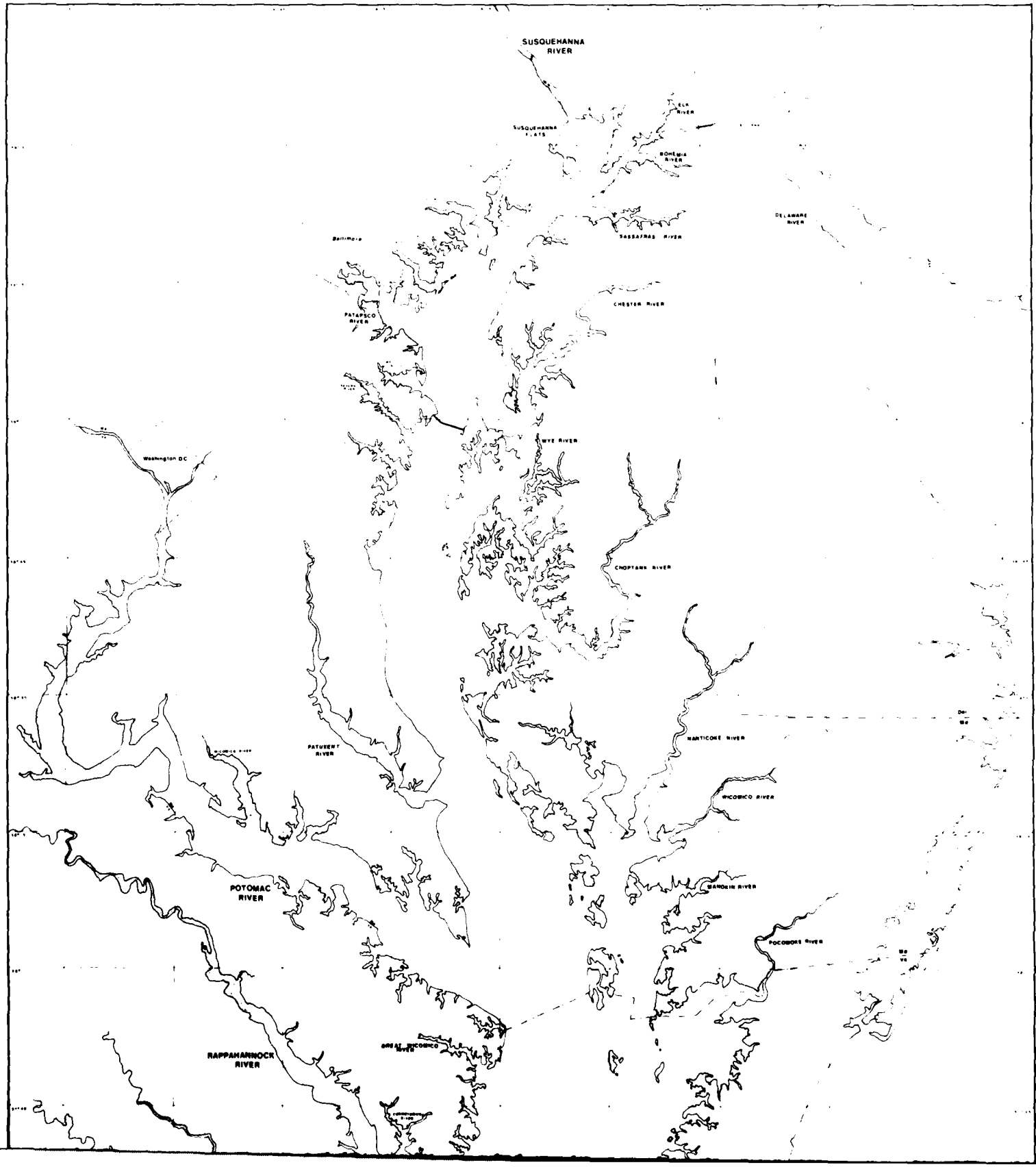
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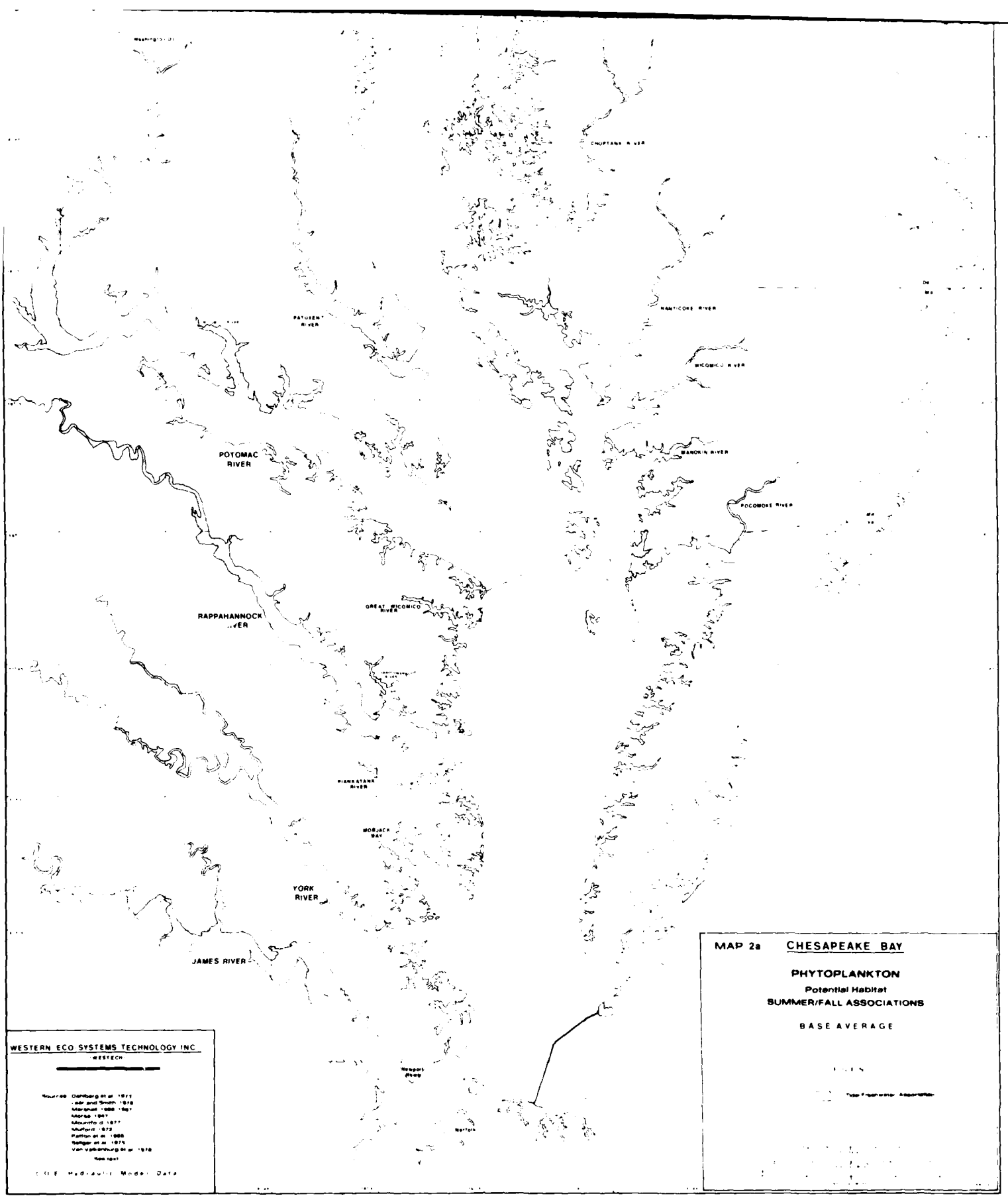
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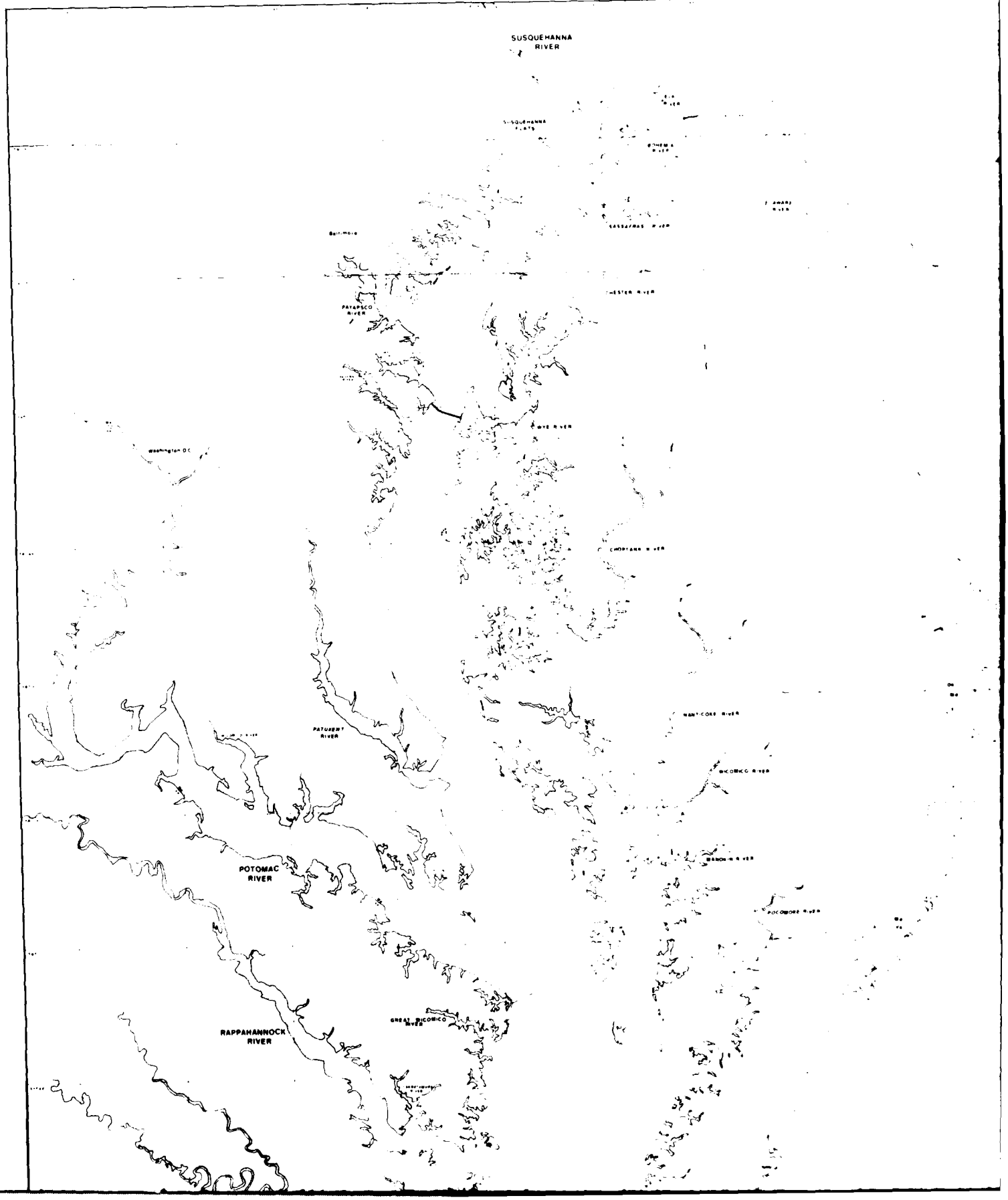
Plate 5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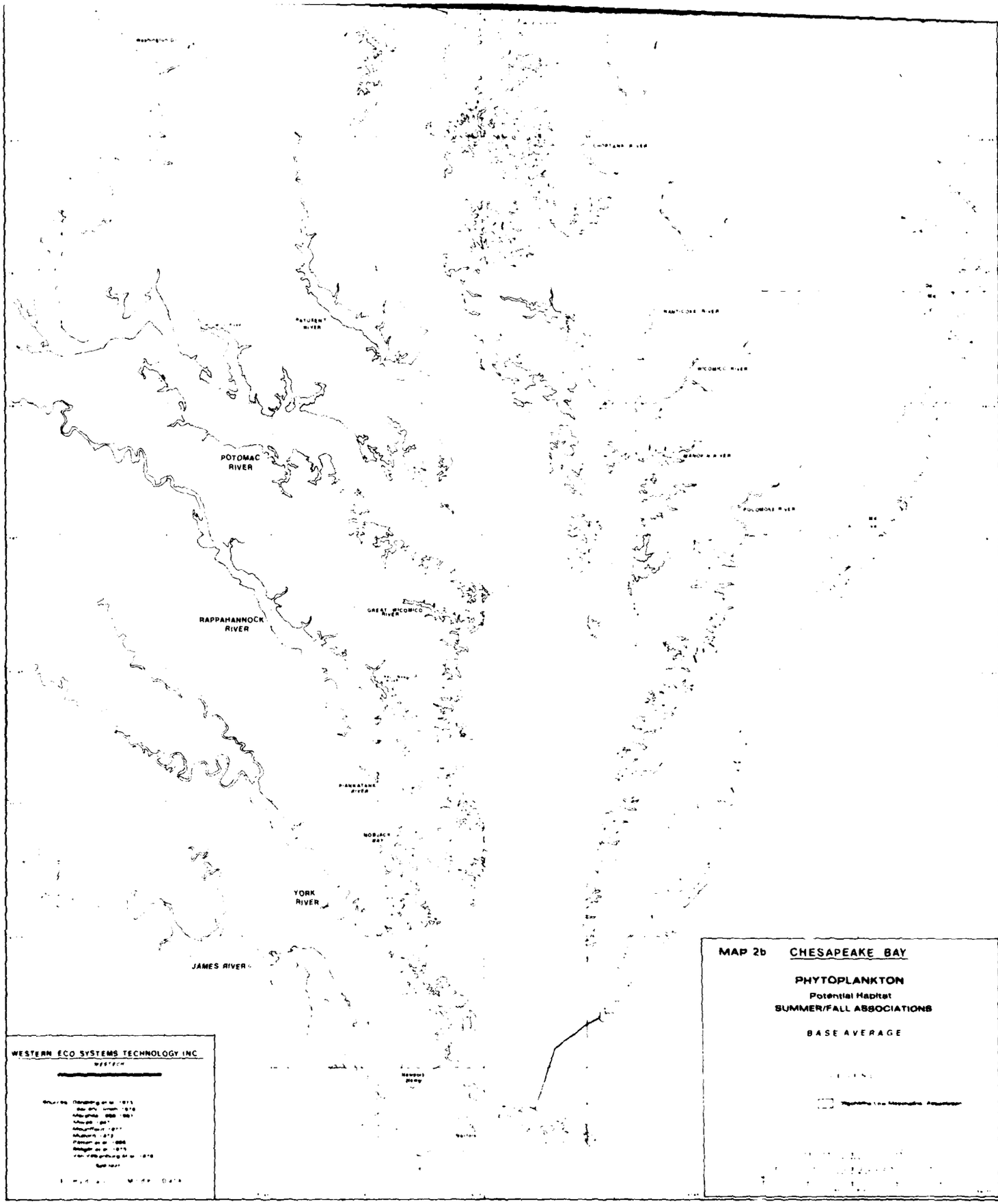
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MAP 2b CHESAPEAKE BAY
PHYTOPLANKTON
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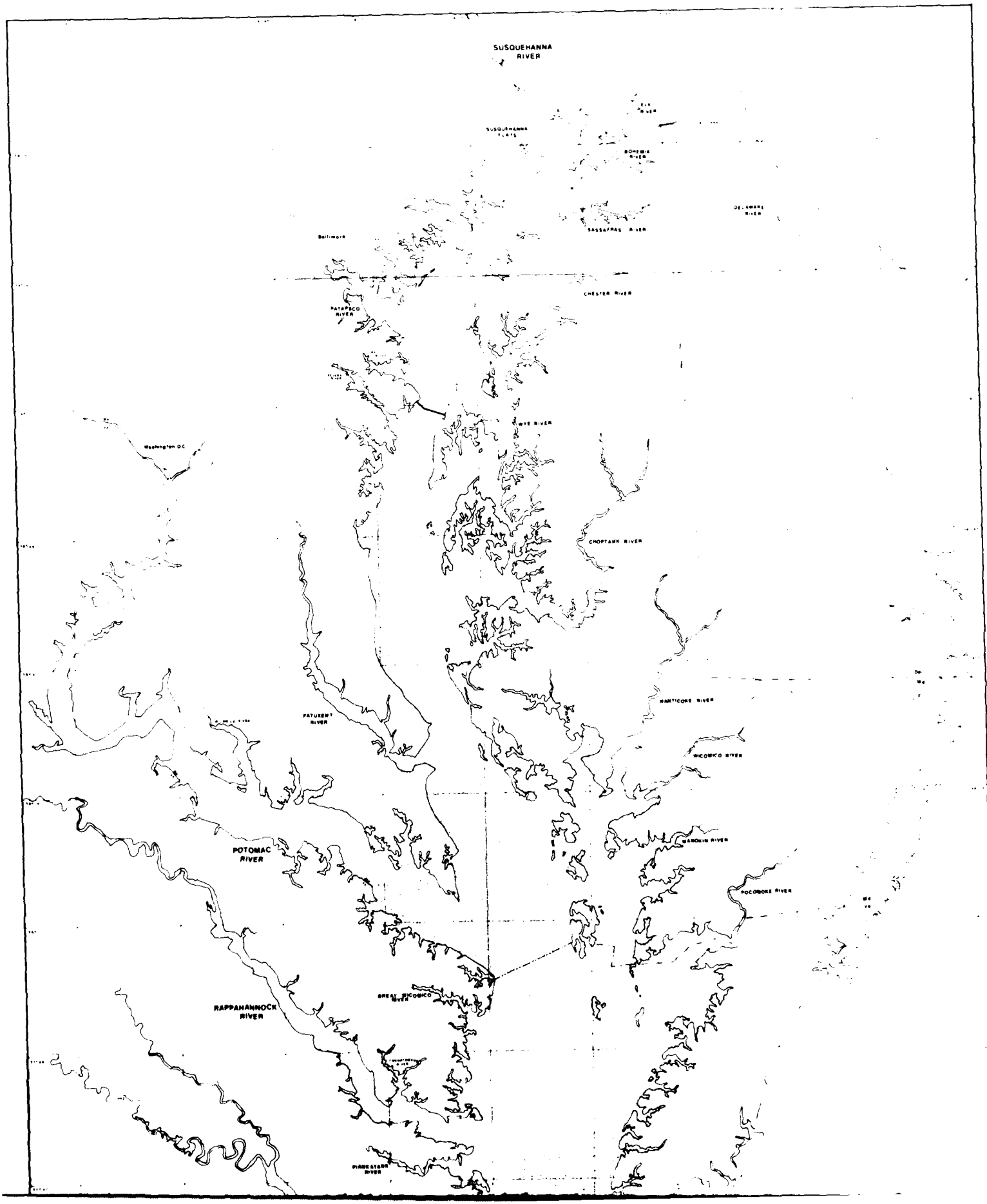
BASE AVERAGE

Plate 6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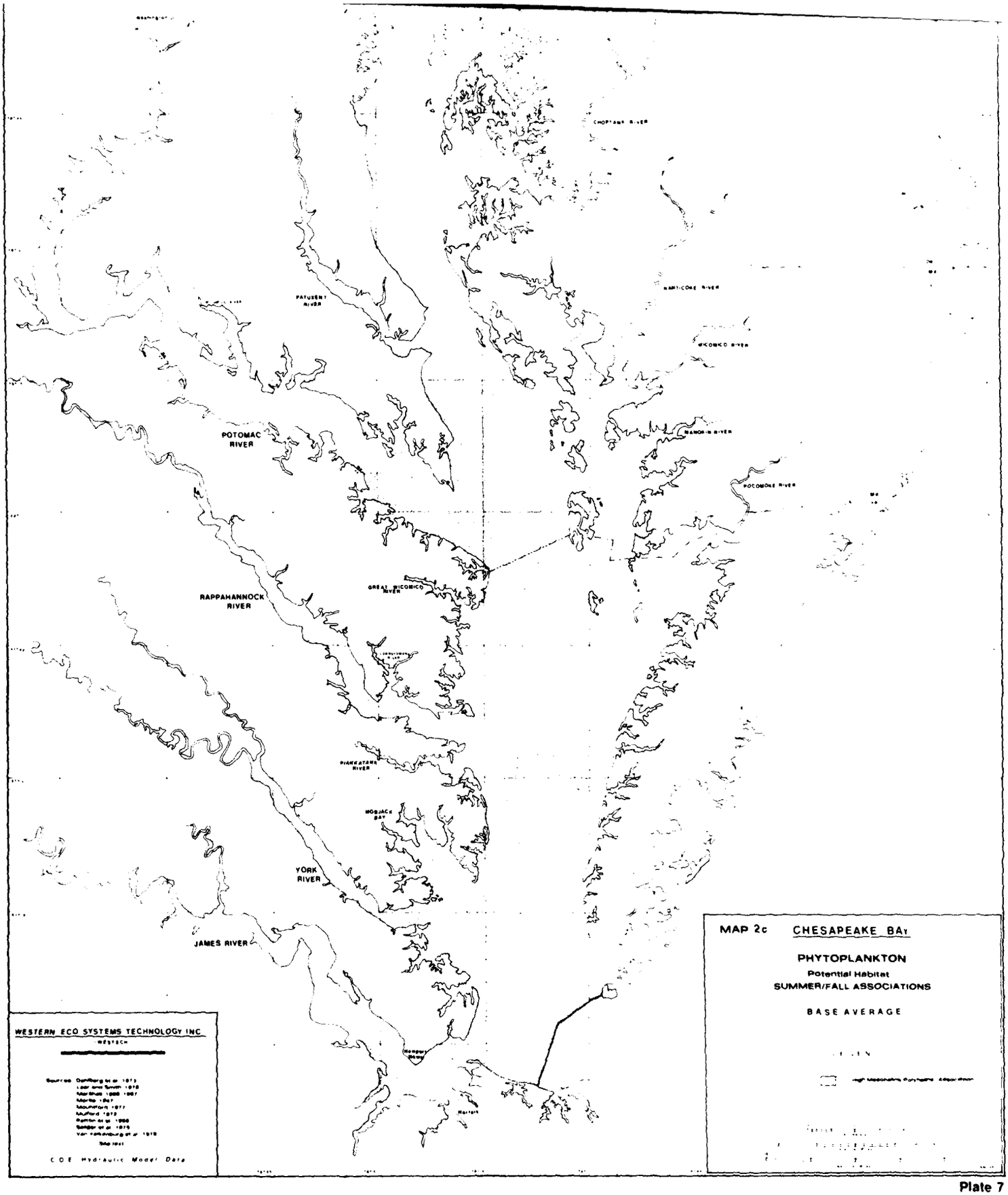
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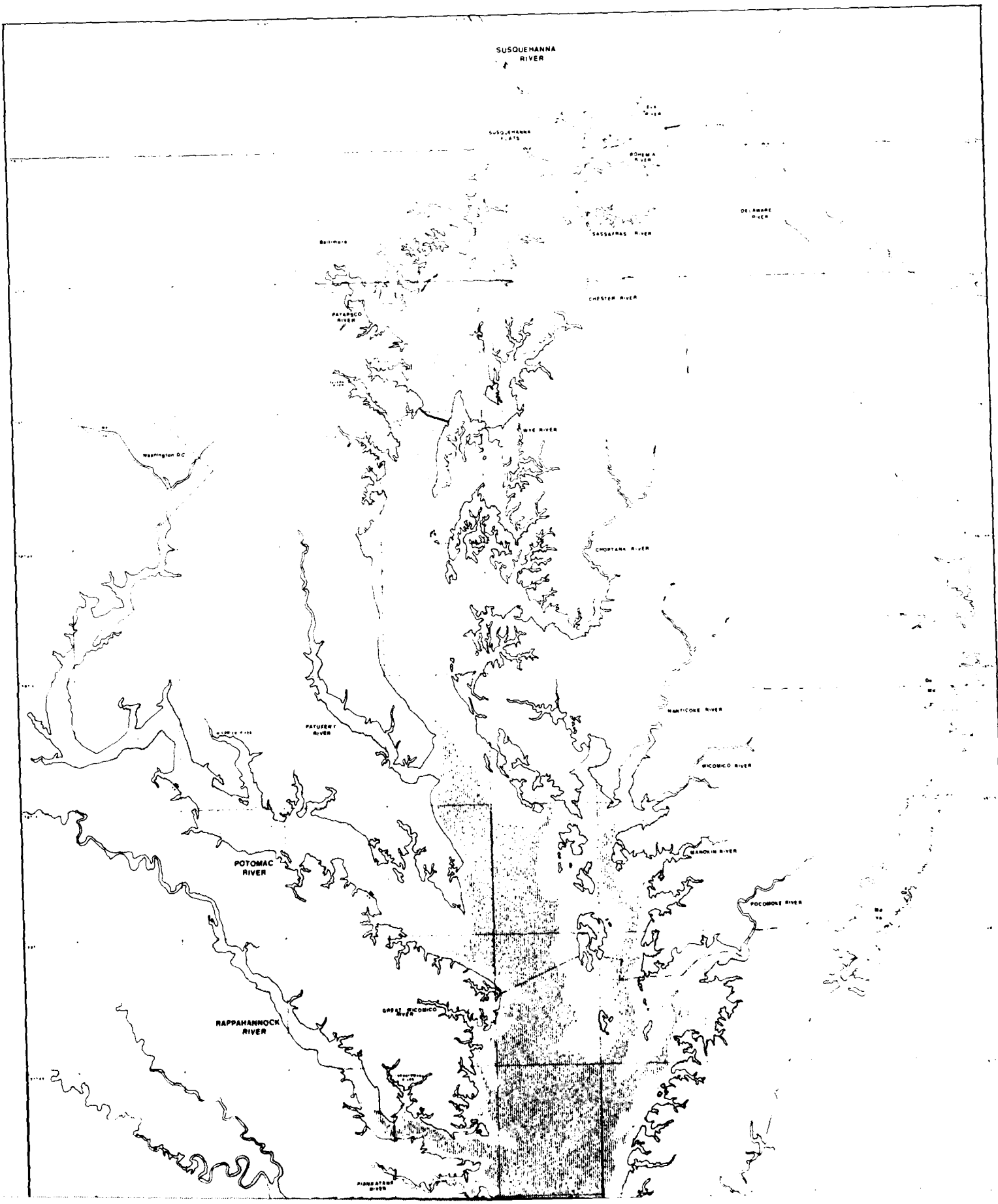
Plate 7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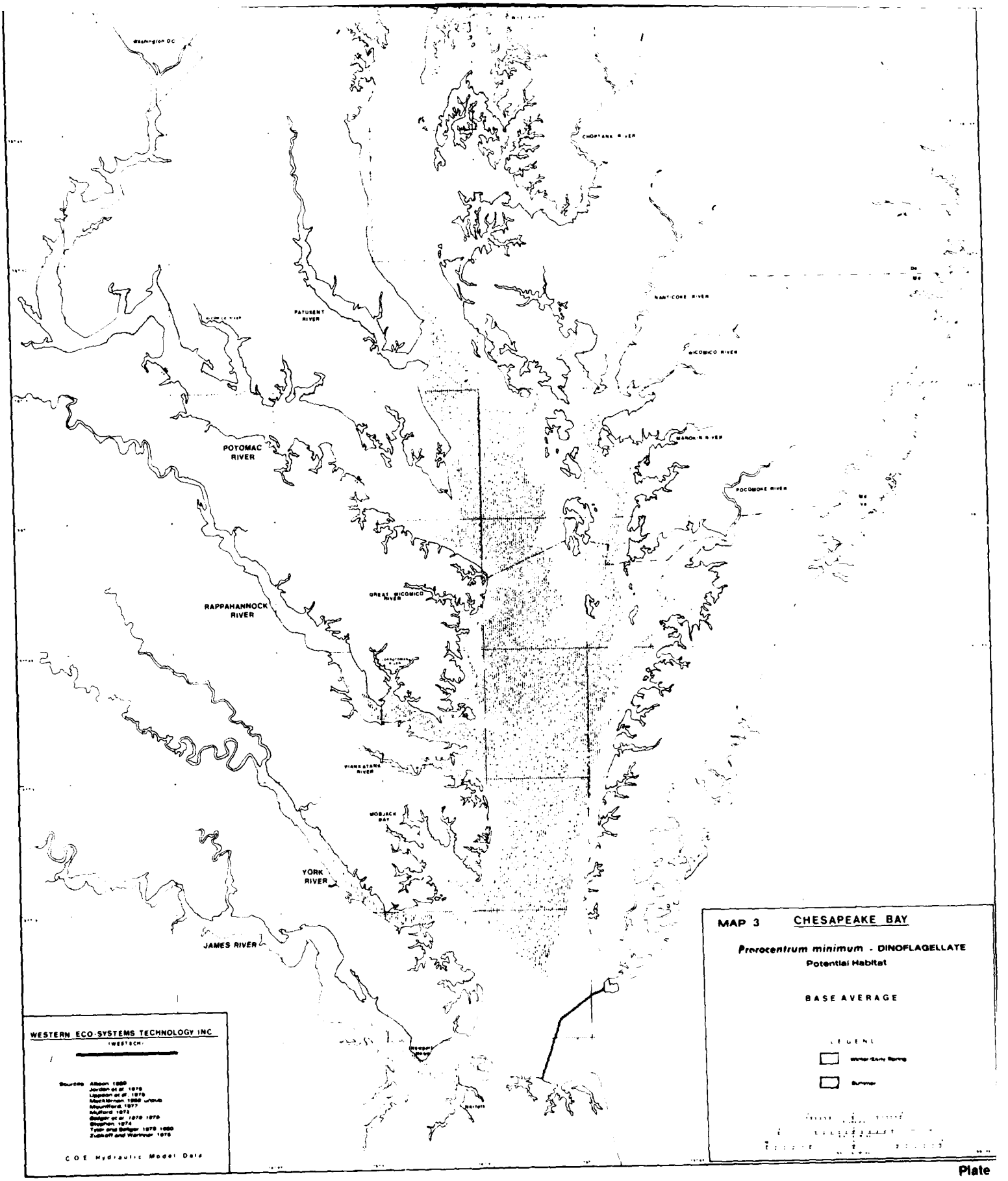
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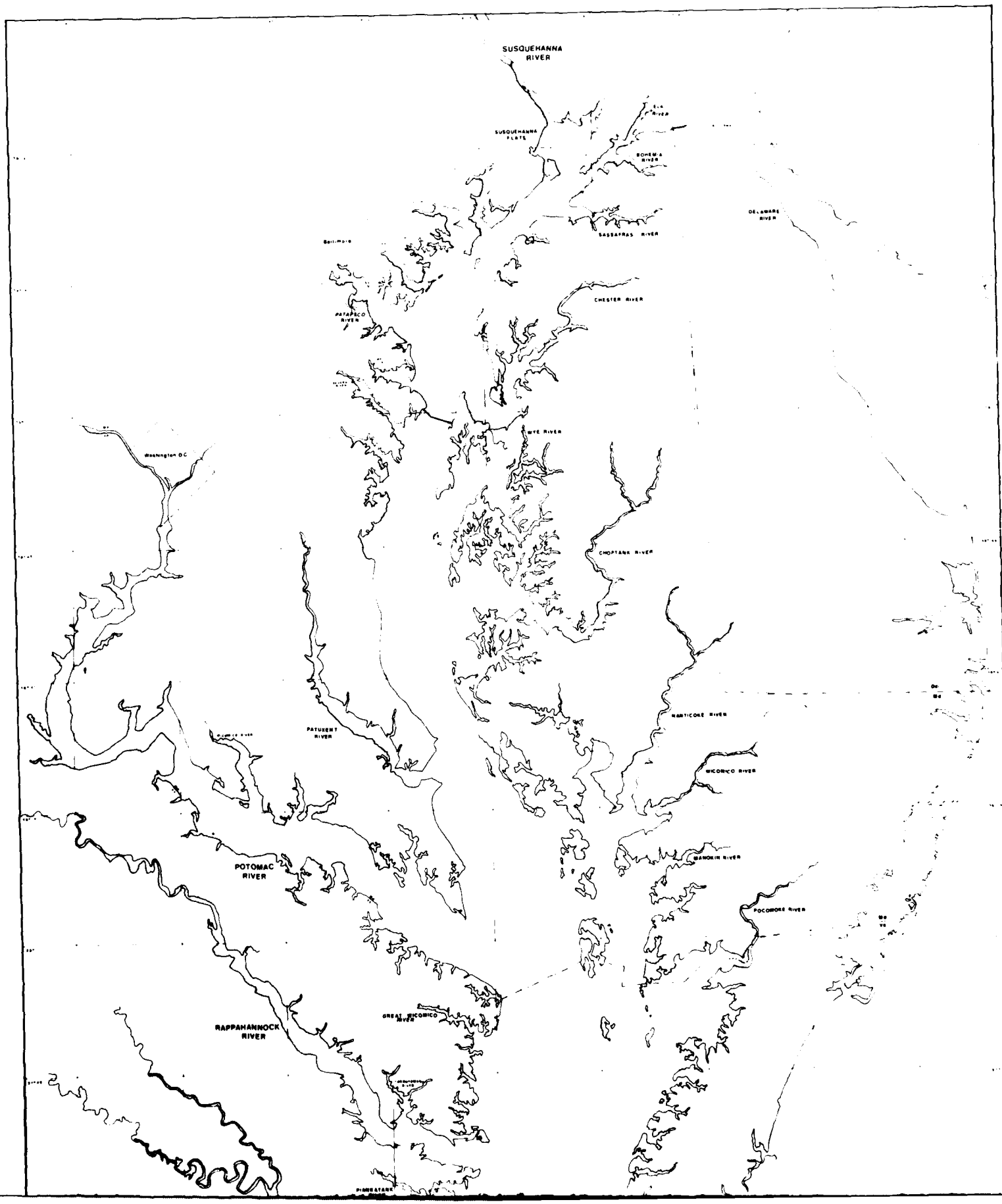
MAP 3 CHESAPEAKE BAY
Prorocentrum minimum - DINOFLAGELLATE
Potential Habitat
BASE AVERAGE
LEGEND
Winter-Early Spring
Summer

Plate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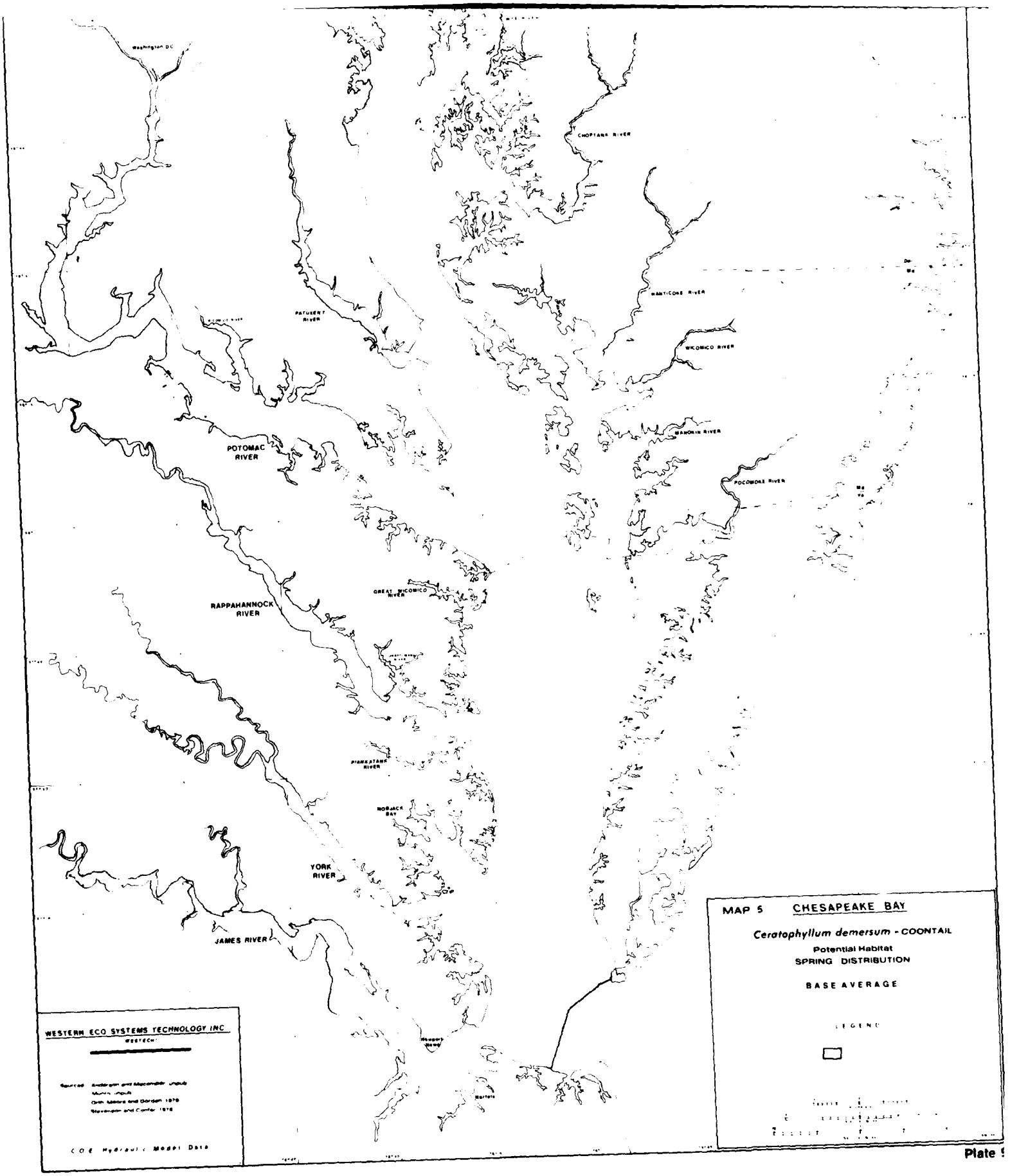
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JAMES RIVER
MAP 5 CHESAPEAKE BAY
Ceratophyllum demersum - COONTAIL
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE
LEGEND
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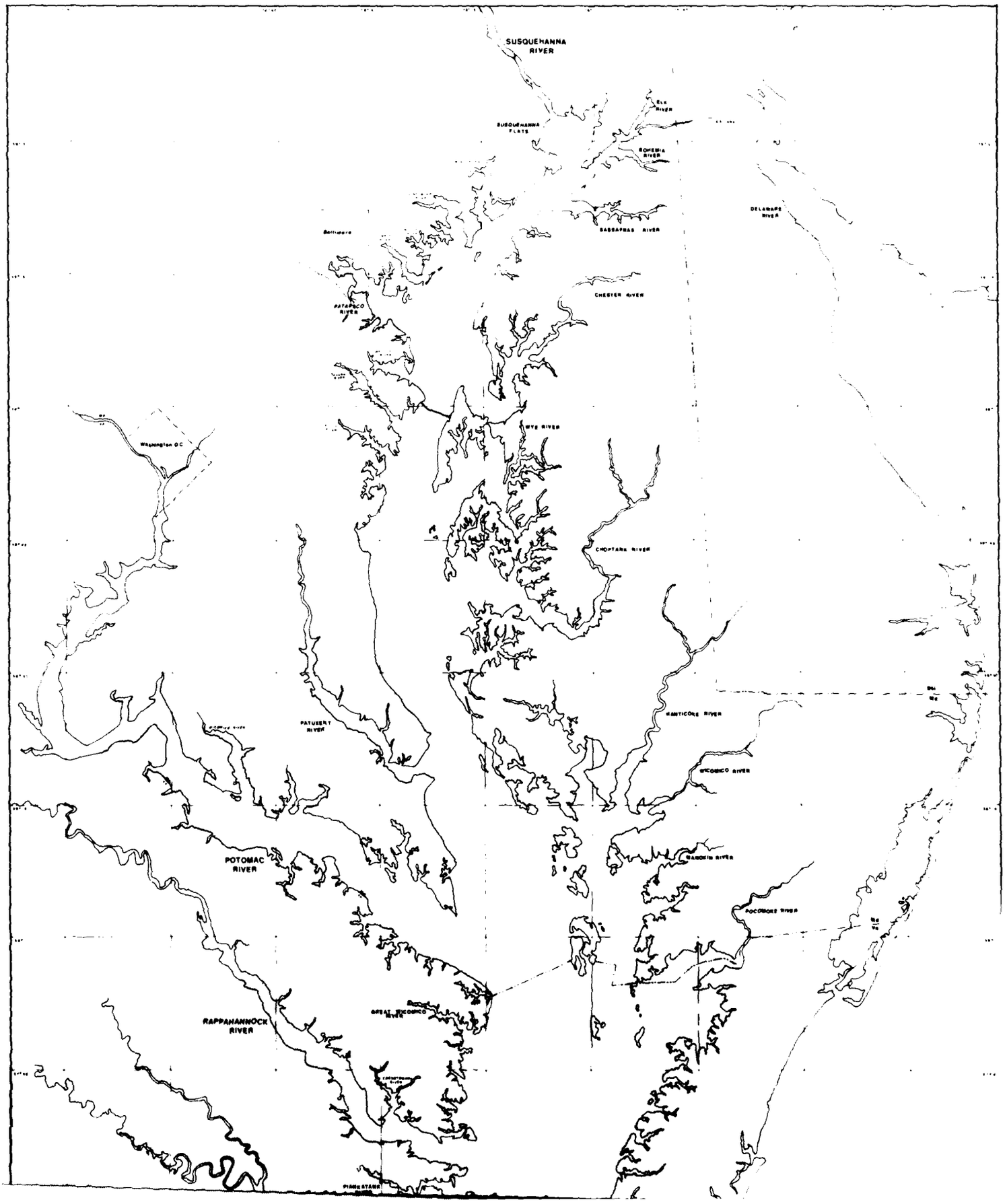
COE Hydraulic Model Data

Plate 5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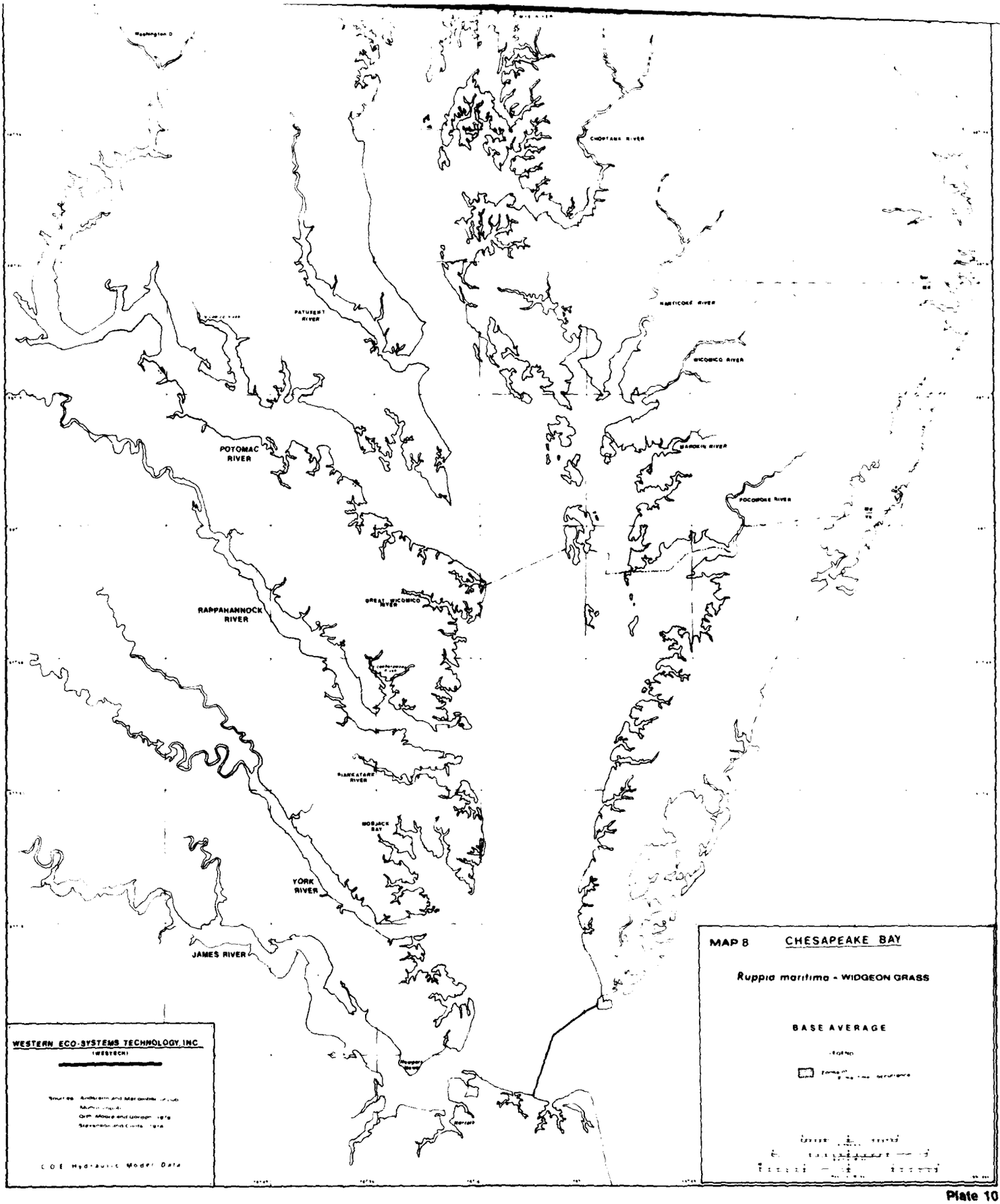
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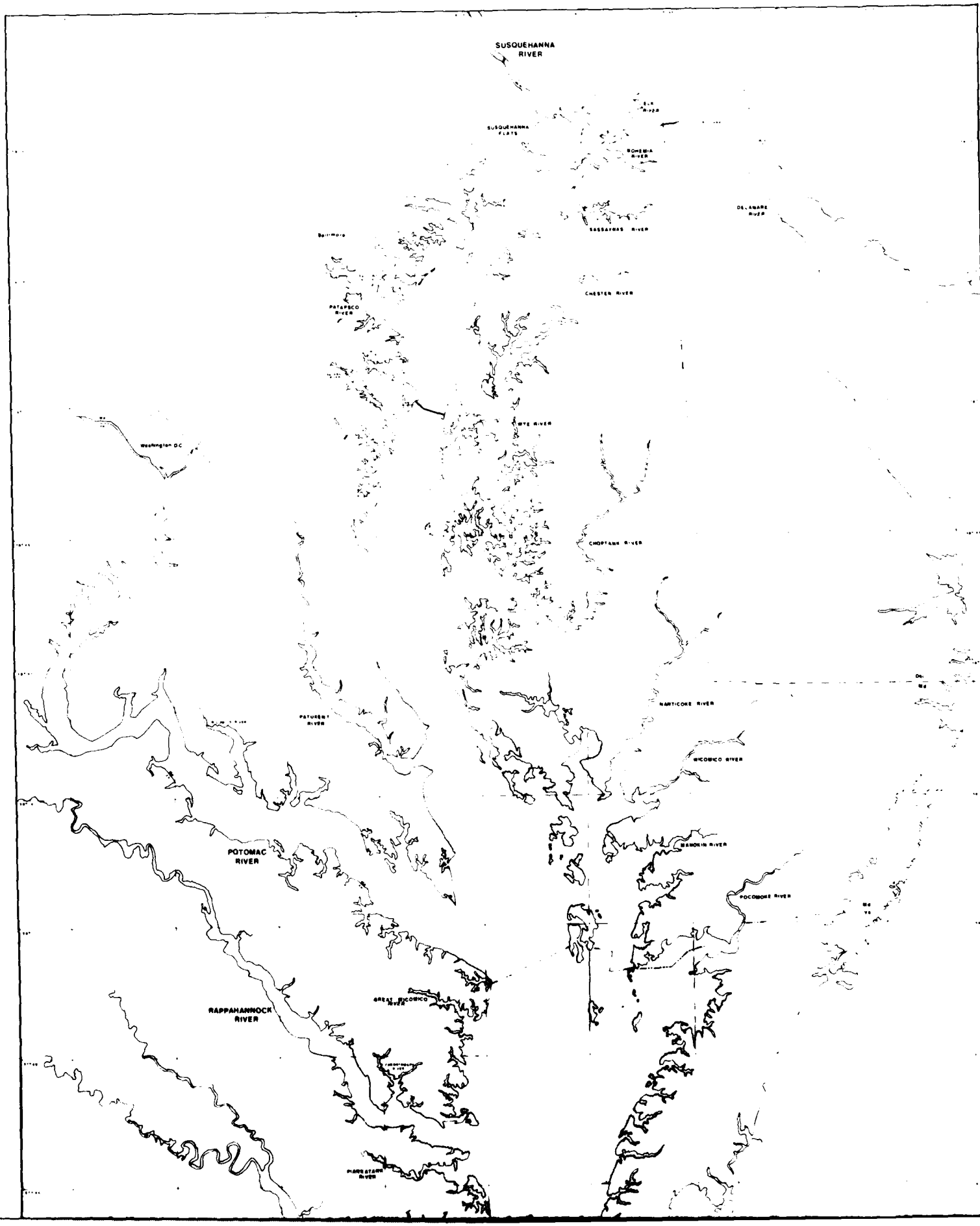
MAP 8 CHESAPEAKE BAY
Ruppia maritima - WIDGEON GRASS
BASE AVERAGE
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)
COE Hydraulic Model Data

Plate 10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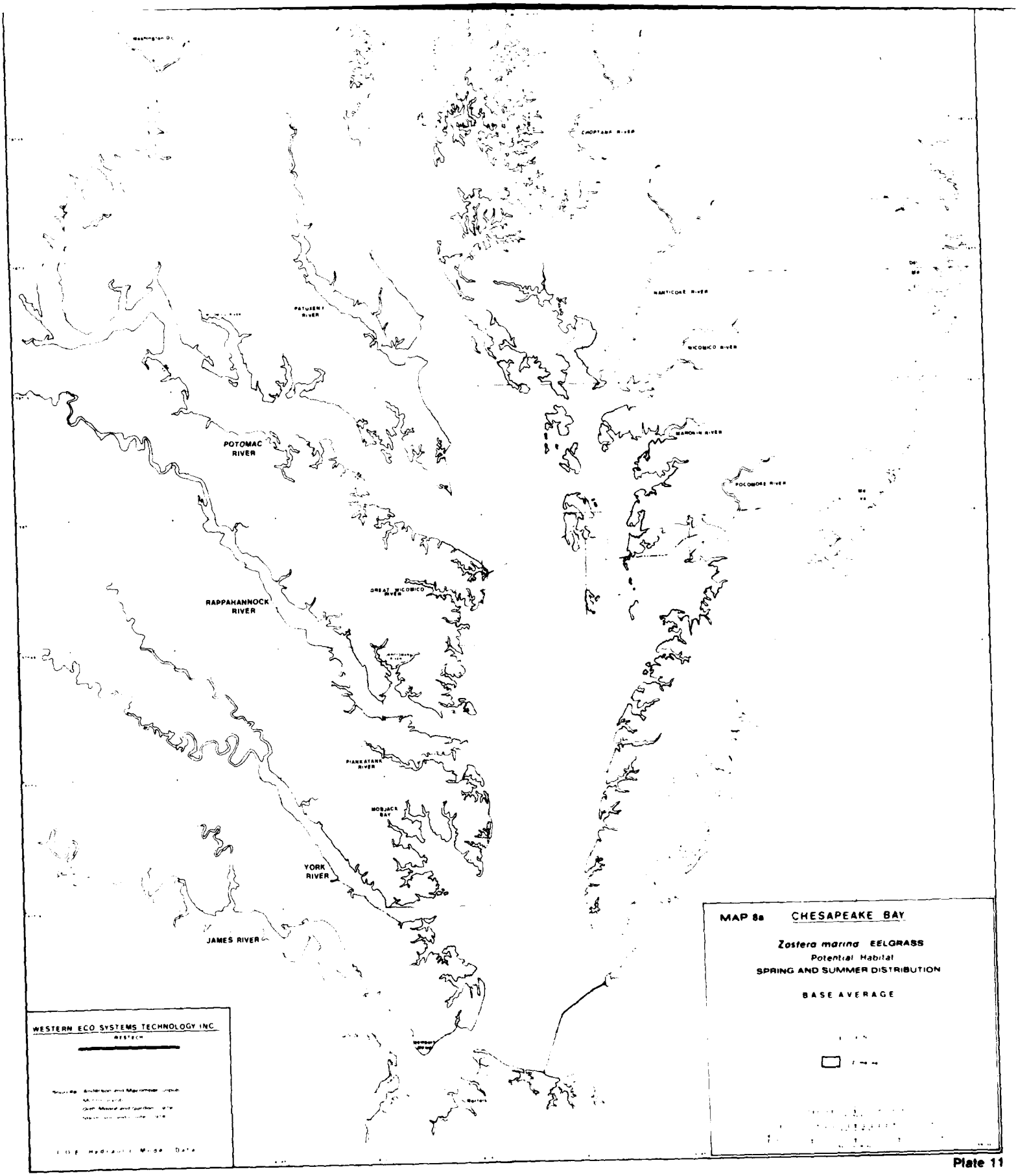
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER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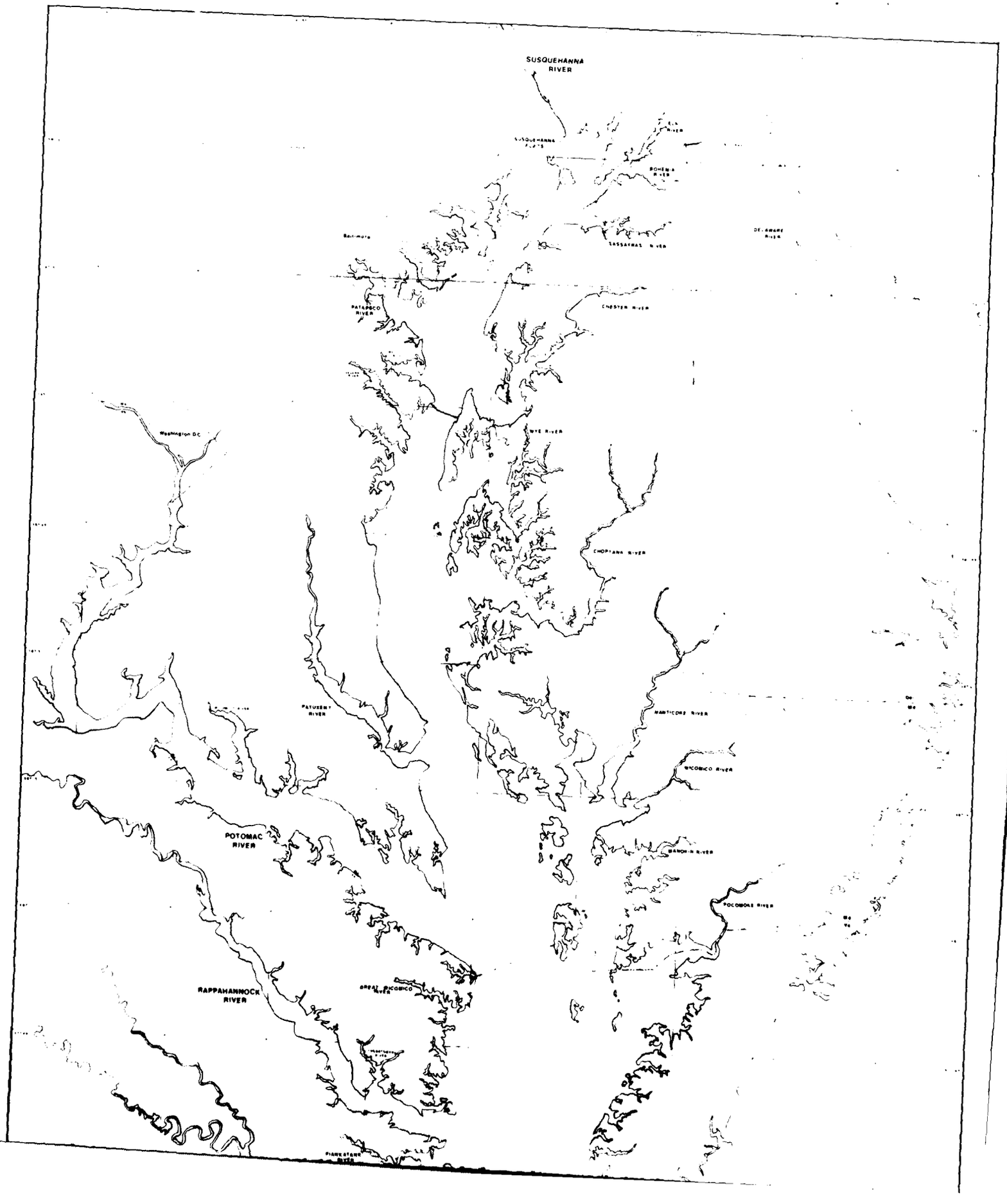
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PIANKATANK RIVER
MOBJACK BAY
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
NANTICOKE RIVER
CHOPTANK RIVER
MAP 8a CHESAPEAKE BAY
Zostera marina EELGRASS
Potential Habitat
SPRING AND SUMMER DISTRIBUTION
BASE AVERAGE
WESTERN ECO SYSTEMS TECHNOLOGY INC.
WESTECH

Plate 11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SUSQUEHANNA FLATS
BOHEMIA RIVER
Baltimore
SASSAFRAS RIVER
DELAWARE RIVER
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
MANTICOKE RIVER
WICOMICO RIVER
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NANTICOKE RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

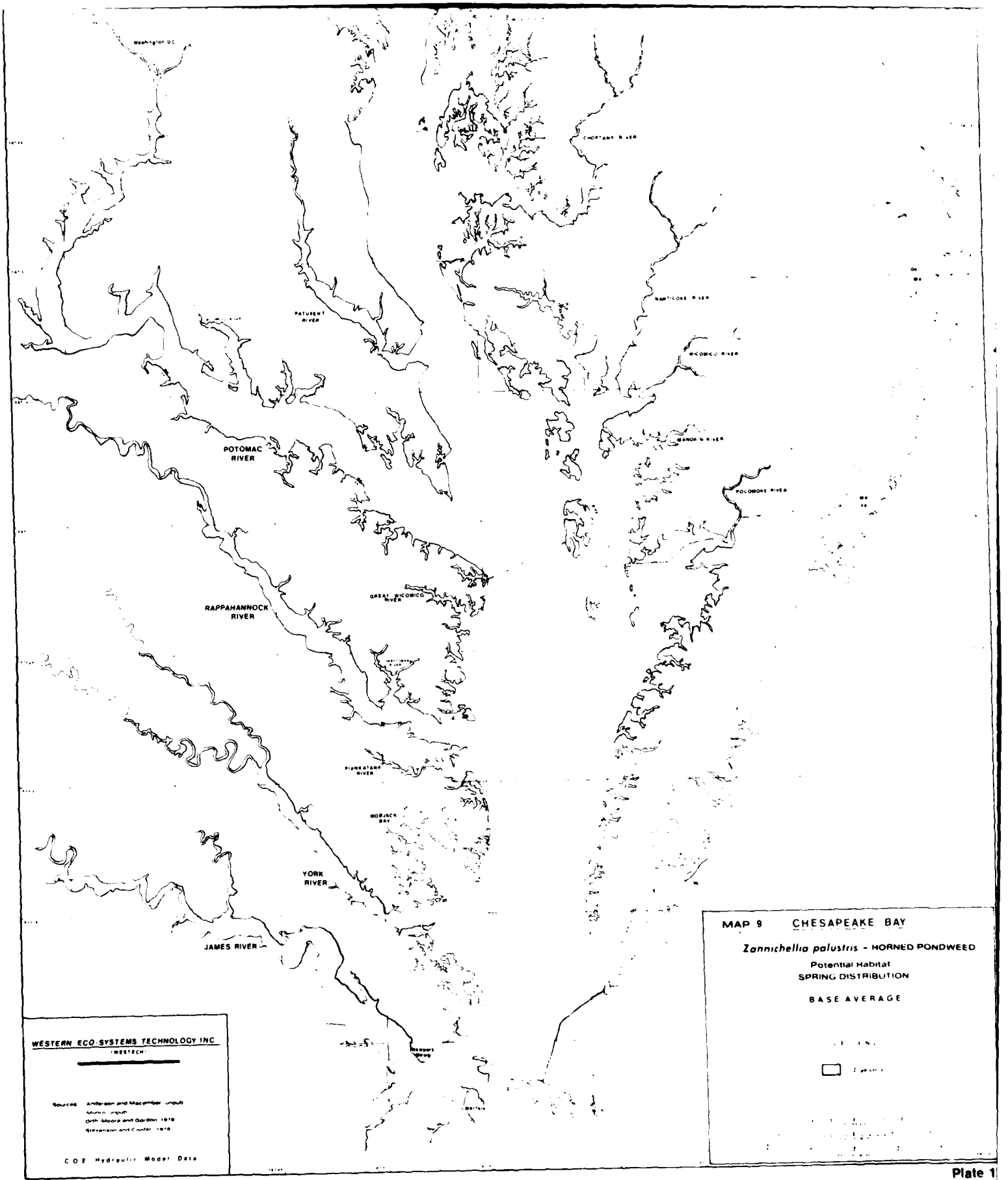
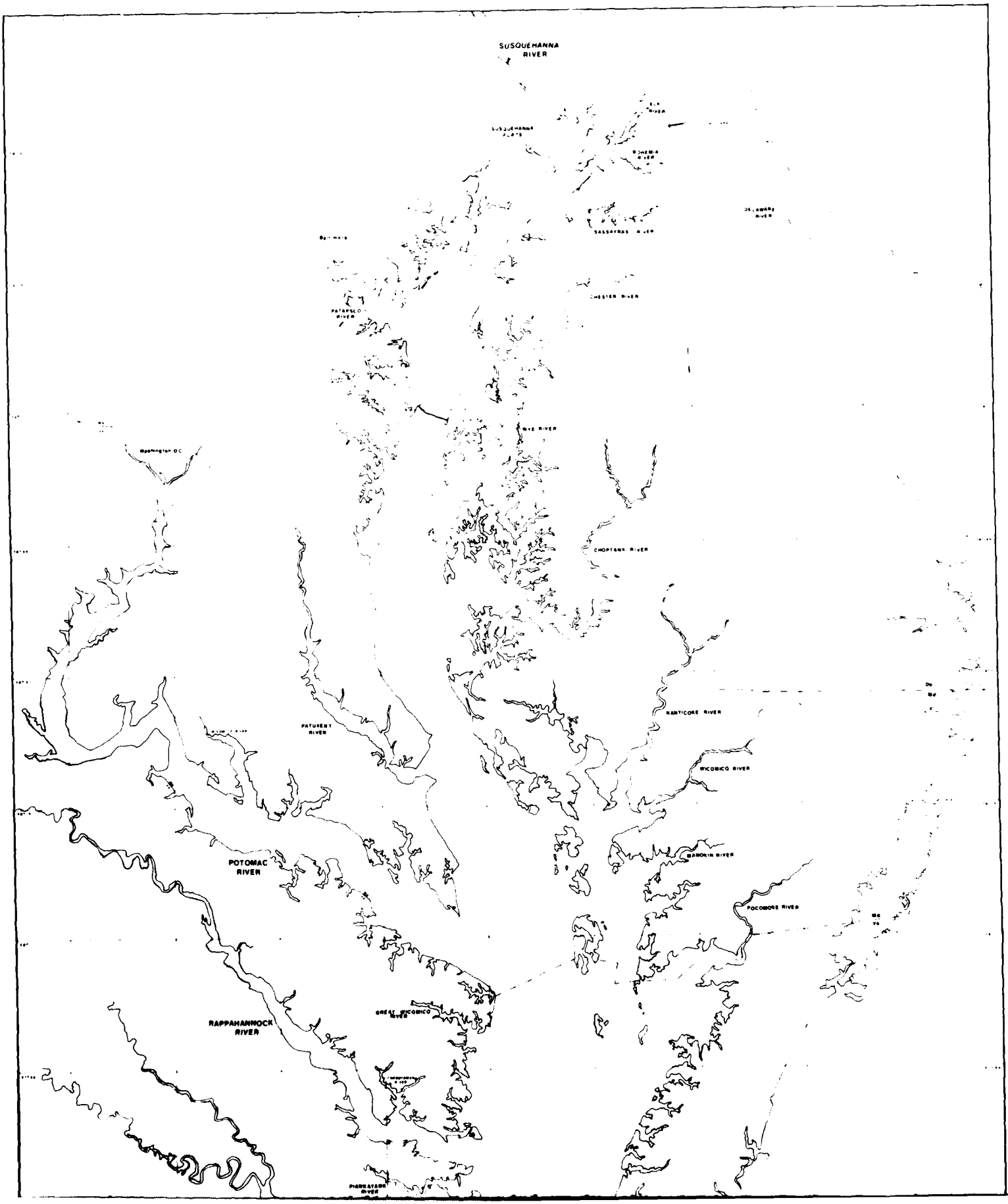

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 9 CHESAPEAKE BAY
Zannichellia palustris - HORNED PONDWEED
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
COE Hydraulic Model Data

Plate 1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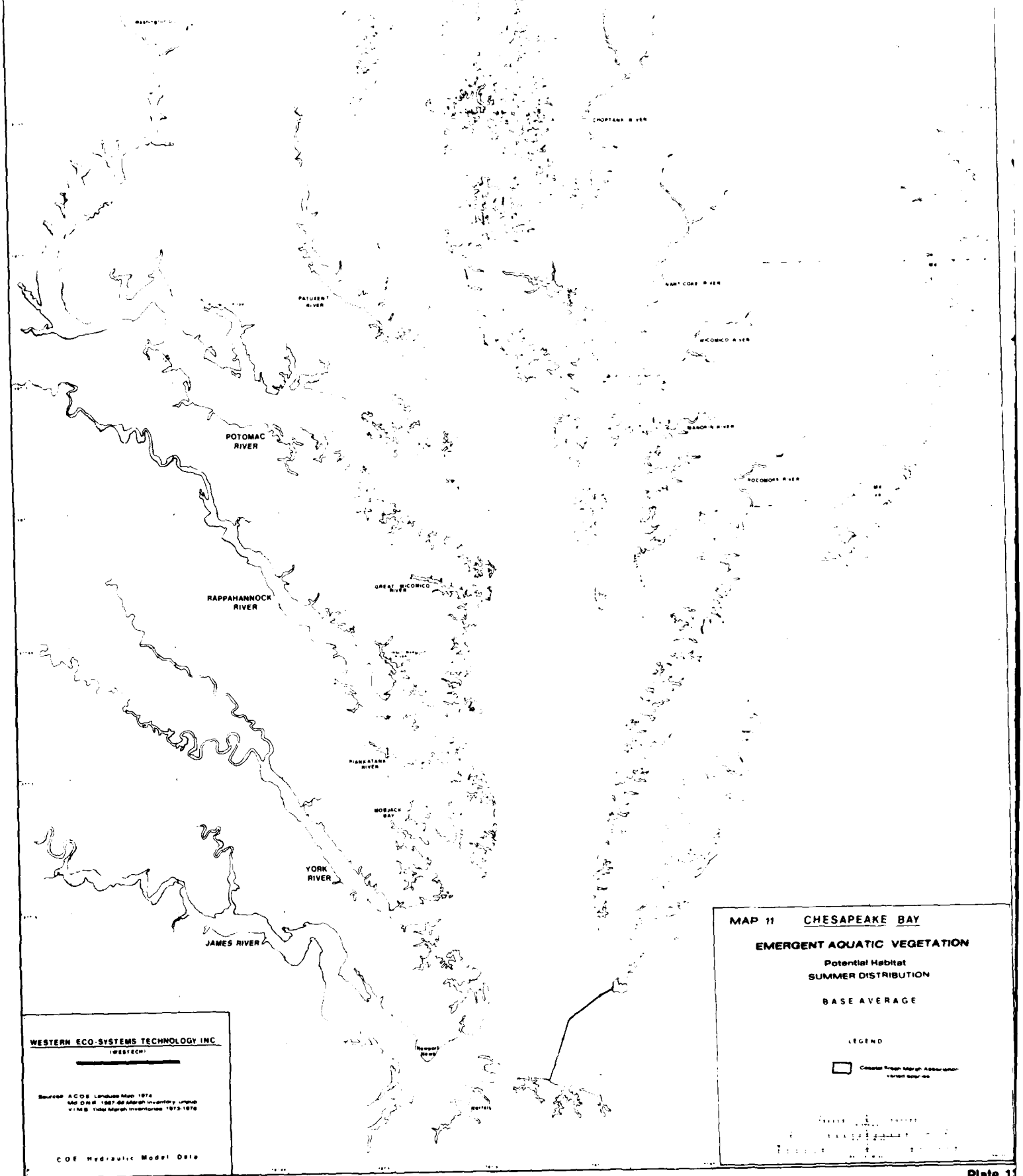
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington D.C.
SEVE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER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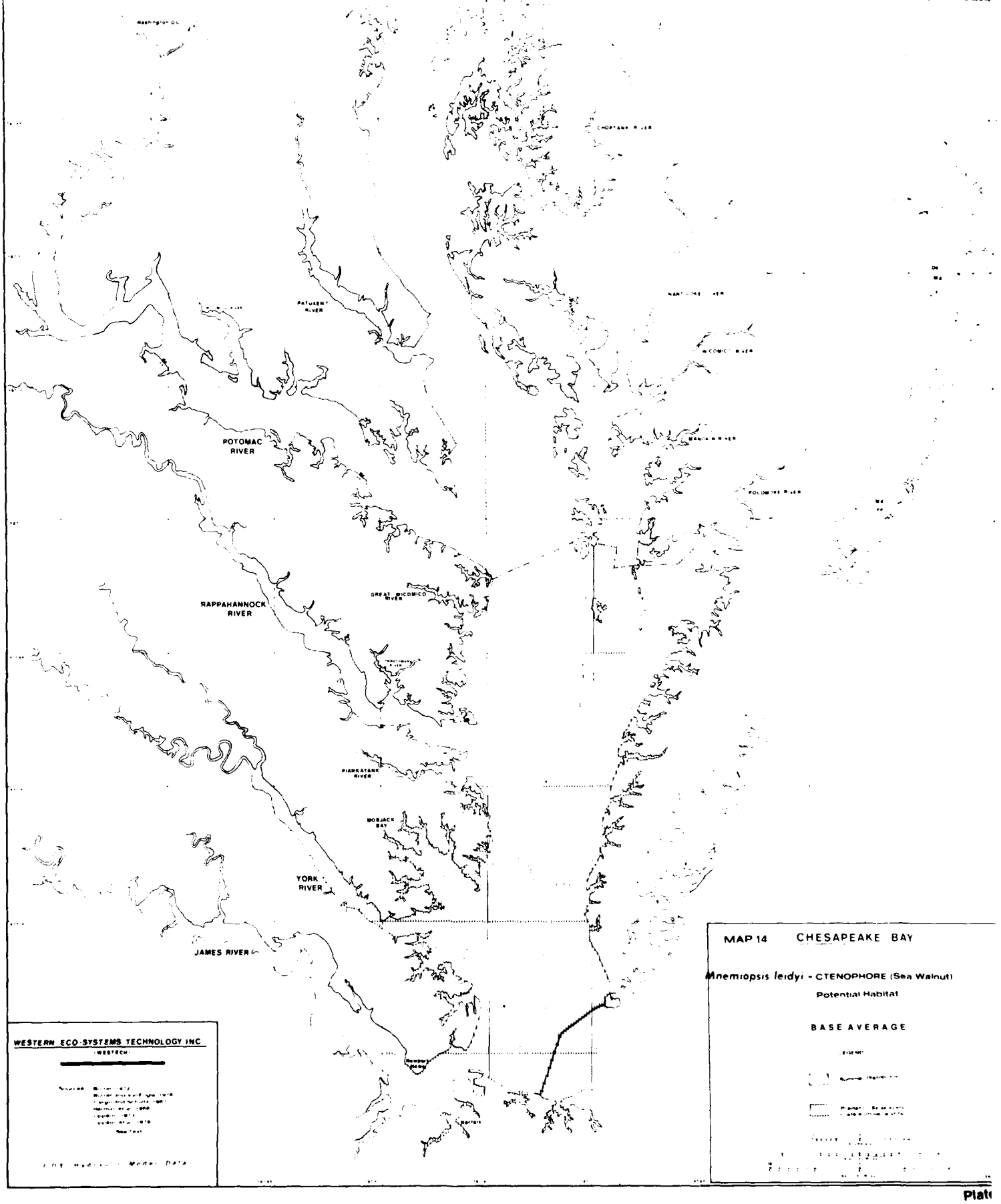
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
MAP 11 CHESAPEAKE BAY
EMERGENT AQUATIC VEGETATION
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
COE Hydraulic Model Data

Plate 1


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER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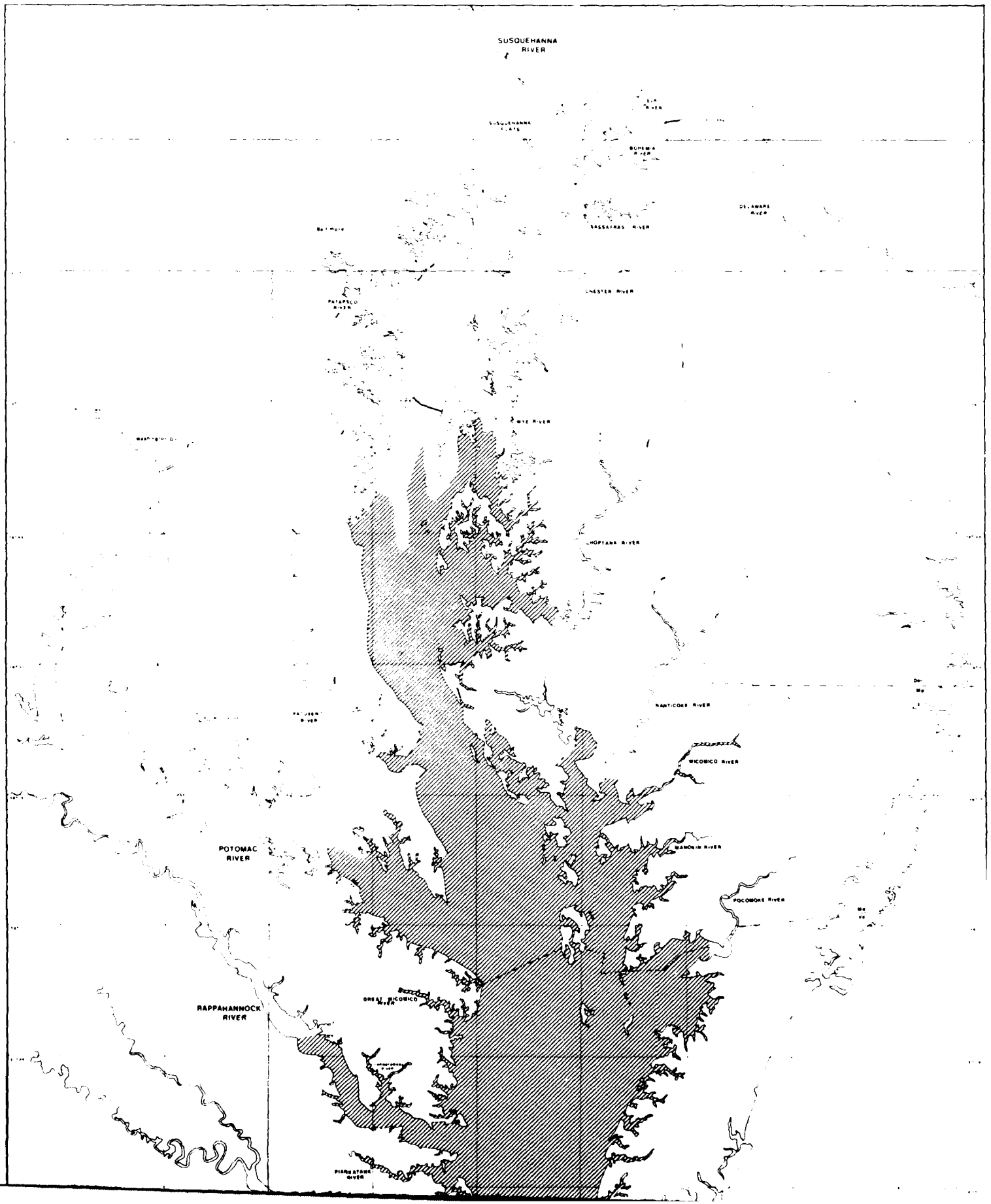
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY INC
WESTECH
MAP 14 CHESAPEAKE BAY
Mnemiopsis leidyi - CTENOPHORE (Sea Walnut)
Potential Habitat
BASE AVERAGE

Plat


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
PATAPSCO RIVER
CHESTER RIVER
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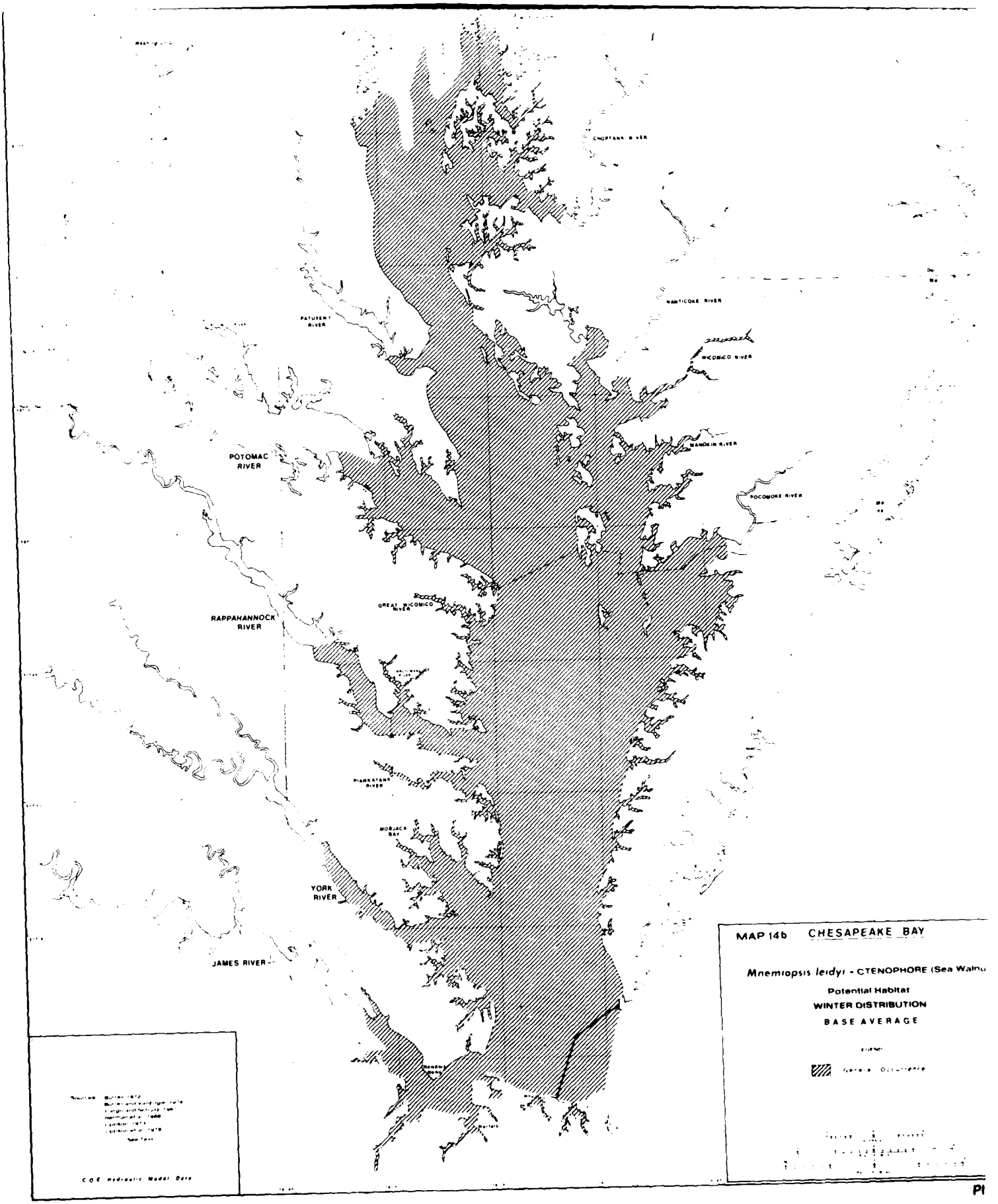
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER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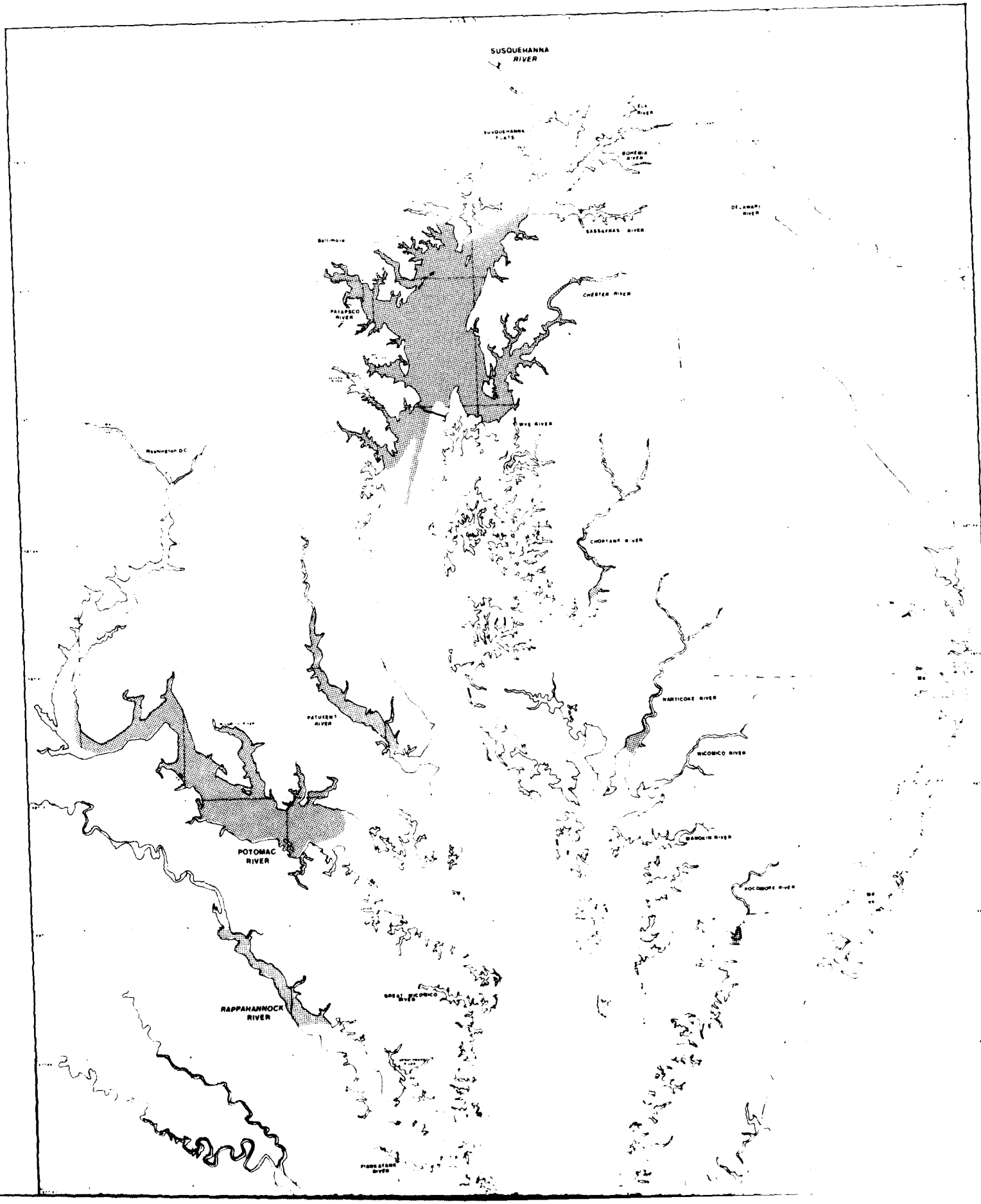
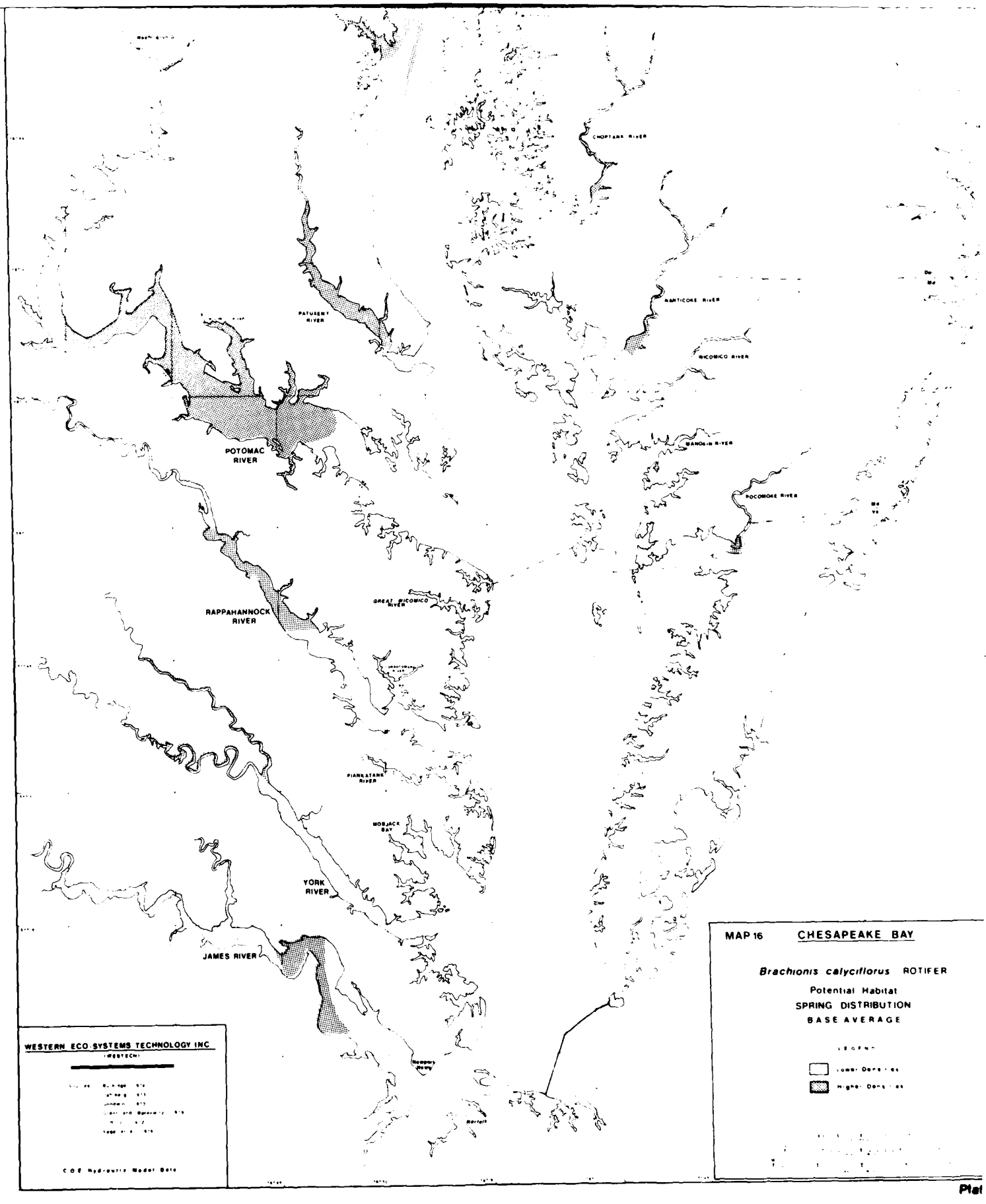
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
MAP 14b CHESAPEAKE BAY
Mnemiopsis leidyi - CTENOPHORE (Sea Walnu
Potential Habitat
WINTER DISTRIBUTION
BASE AVERAGE
COE Hydraulic Model Data


SUSQUEHANNA
RIVER
SUSQUEHANNA
FLATS
BOHEMIA
RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO
RIVER
Washington DC
CHOPTANK RIVER
PATUXENT
RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC
RIVER
RAPPAHANNOCK
RIVER
PIANKATANK
RIVER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POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
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YORK RIVER
JAMES RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
C.O.E. Hydraulic Model Data
MAP 16 CHESAPEAKE BAY
Brachionis calyciflorus ROTIFER
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Density
Higher Density

Plat


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
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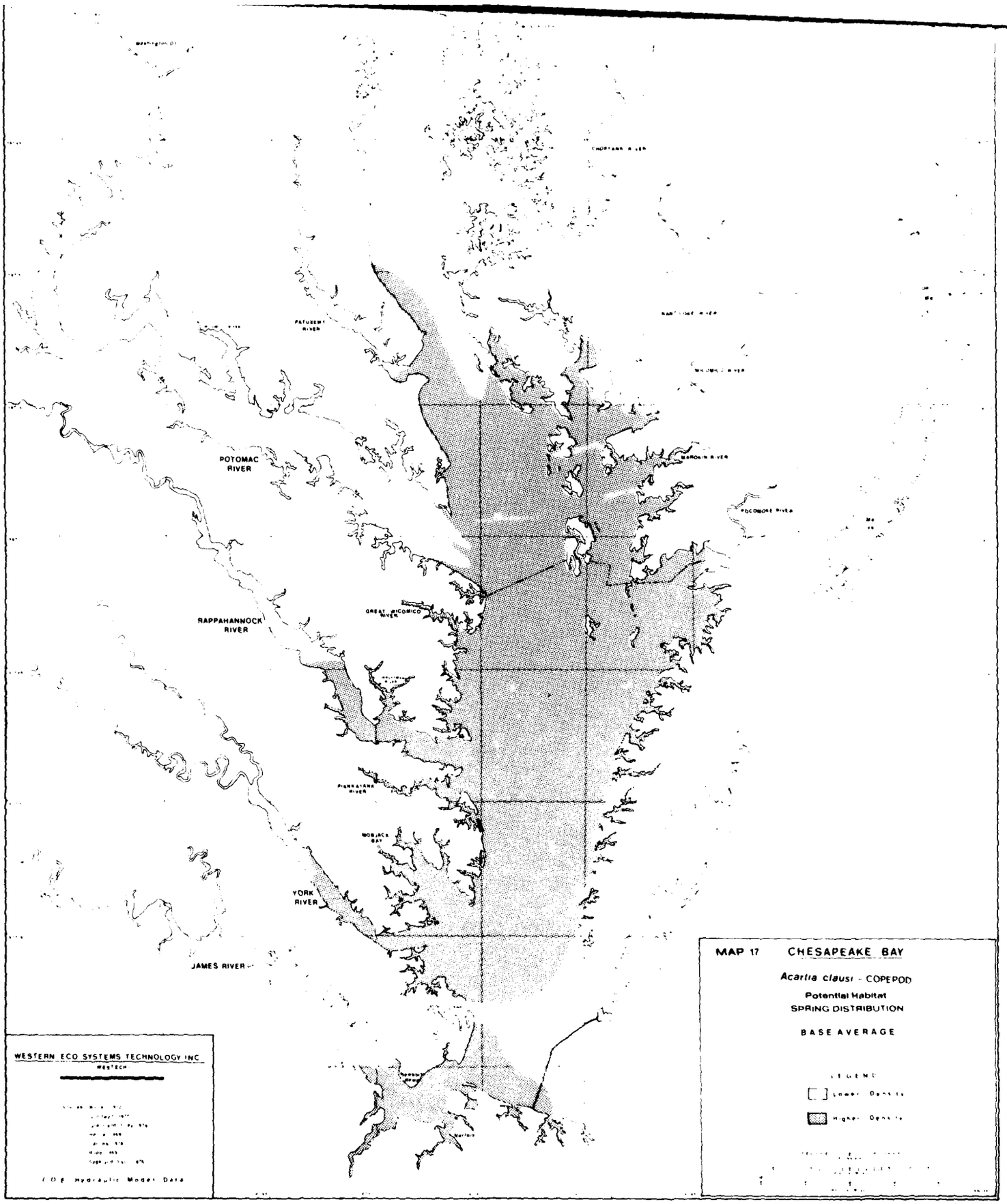
GREAT WICOMICO RIVER
PIANKATANK RIVER


POTOMAC RIVER
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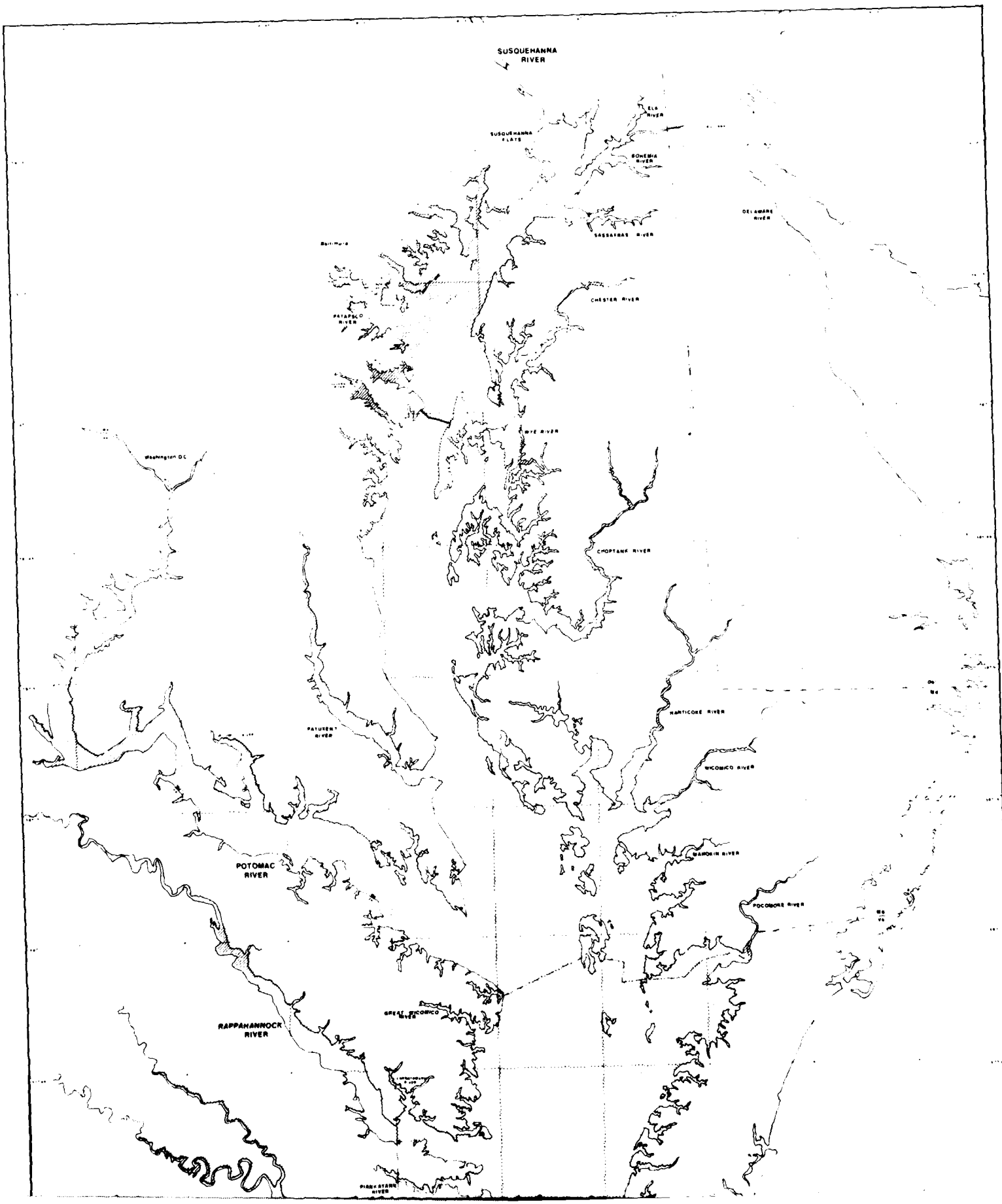
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
MANOKIN RIVER
PIANKATANK RIVER
MOBJACK BAY
GREAT WICOMICO RIVER
MAP 17 CHESAPEAKE BAY
Acartia clausi - COPEPOD
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE
WESTERN ECO SYSTEMS TECHNOLOGY INC
WESTECH
COE Hydraulic Model Data

Plate 17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ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
CHESTER RIVER
PATAPSCO RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
HARTICORE RIVER
WICOMICO RIVER
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POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

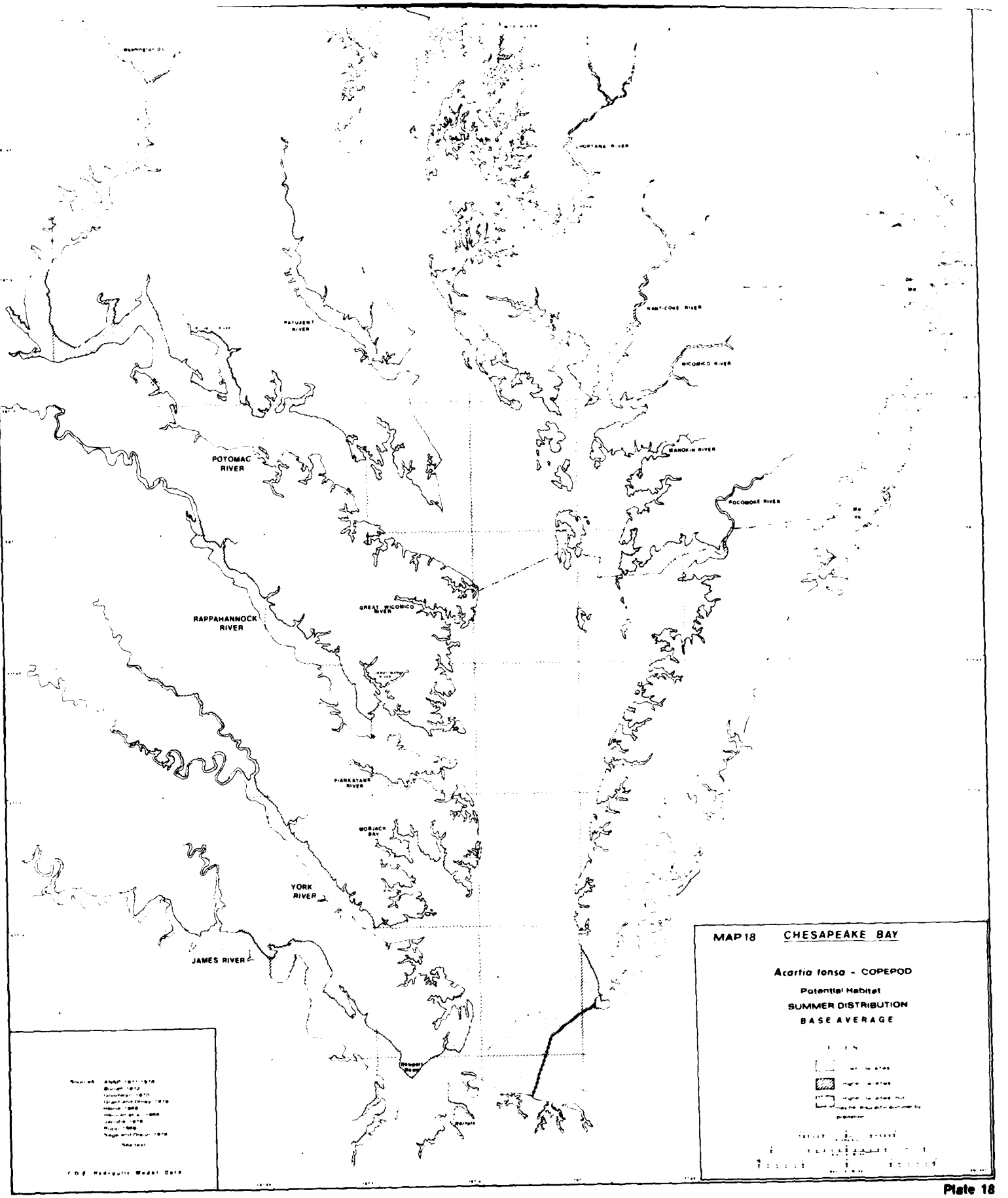
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PIANKATANK RIVER
MOBJACK BAY
GREAT WICOMICO RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
MAP 18 CHESAPEAKE BAY
Acartia tonsa - COPEPOD
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE

Plate 18


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
RANTICOKE RIVER
WICOMICO RIVER
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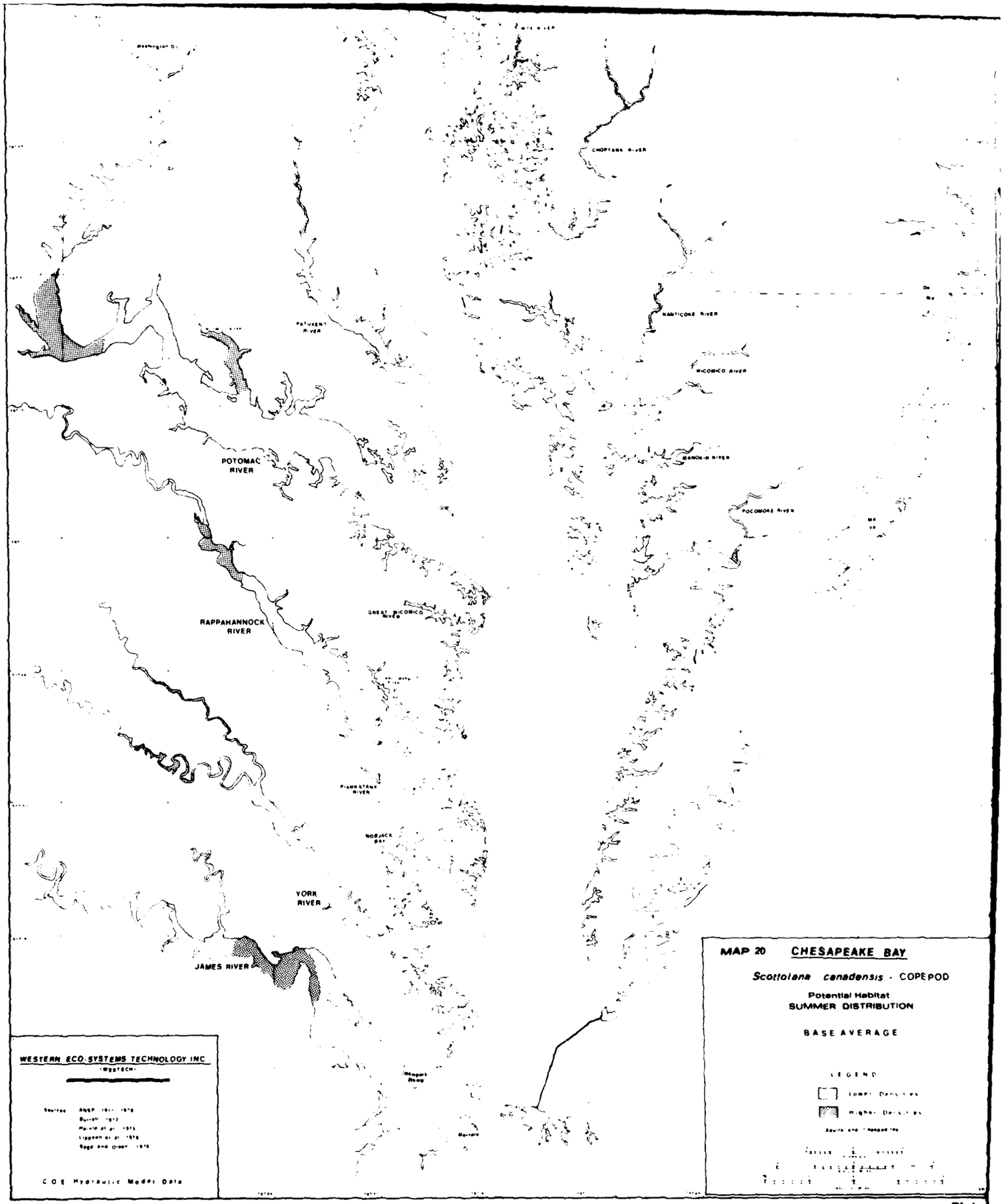
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER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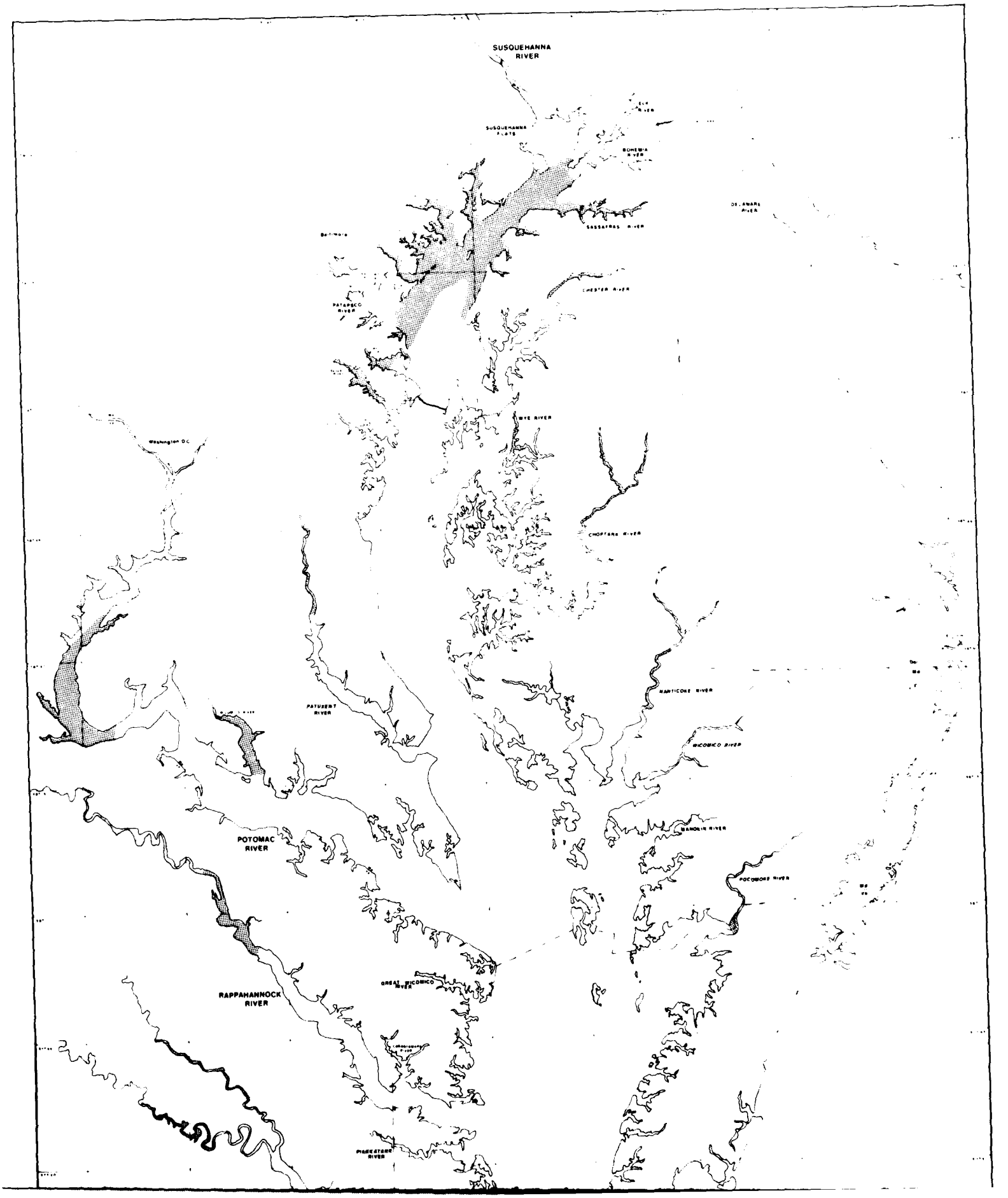
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
PATUXENT RIVER
POCOMOKE River
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
MAP 20 CHESAPEAKE BAY
Scottolana canadensis - COPEPOD
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
WESTERN ECO-SYSTEMS TECHNOLOGY INC
COE Hydraulic Model Data

Plate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BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
BALTIMORE
CHESTER RIVER
PATAPSCO RIVER
SEVE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

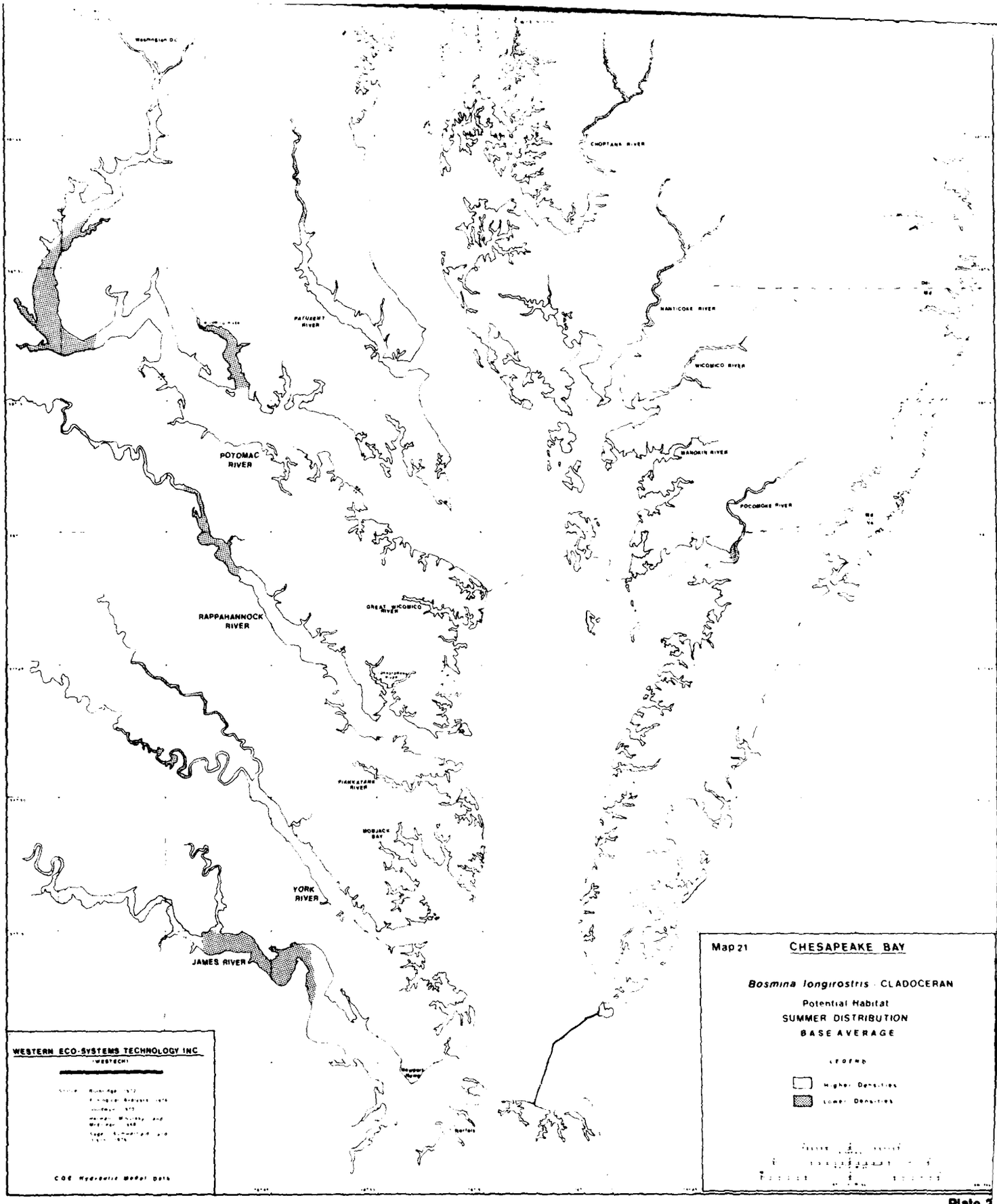
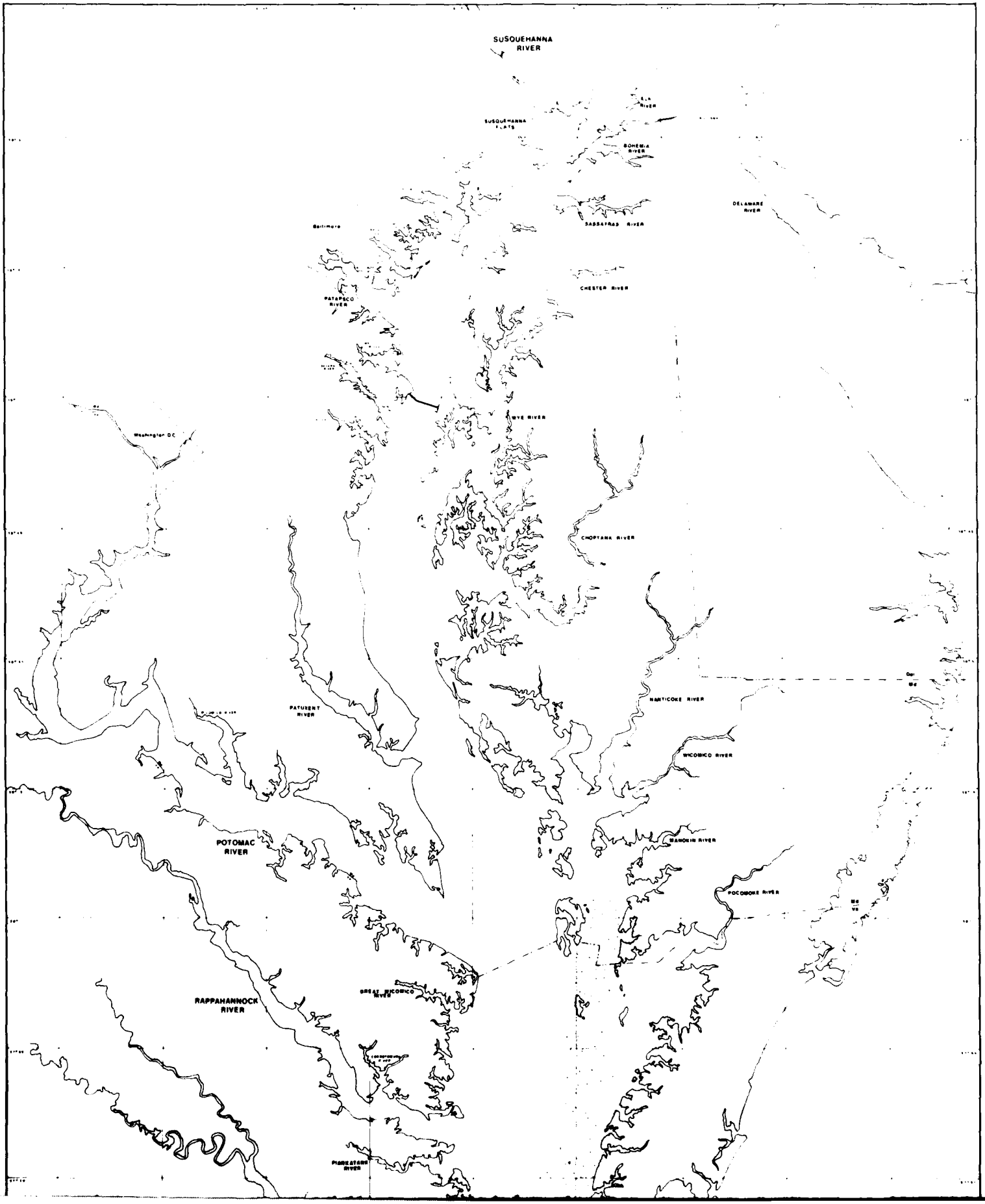

Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
Norfolk
Map 21 CHESAPEAKE BAY
Bosmina longirostris - CLADOCERAN
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Higher Densities
Lower Densities
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
COE Hydraulic Model Data

Plate 2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ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
MANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

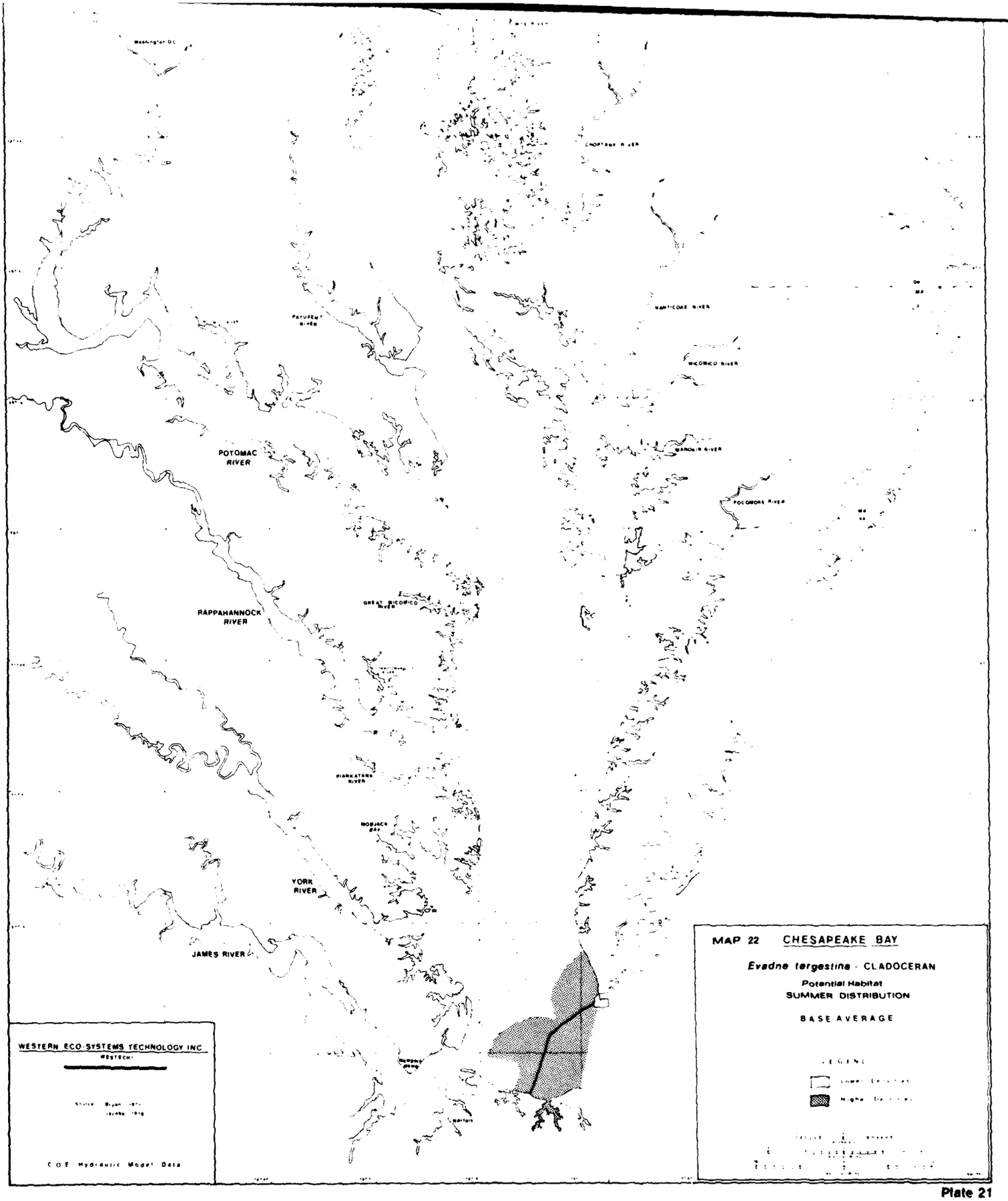
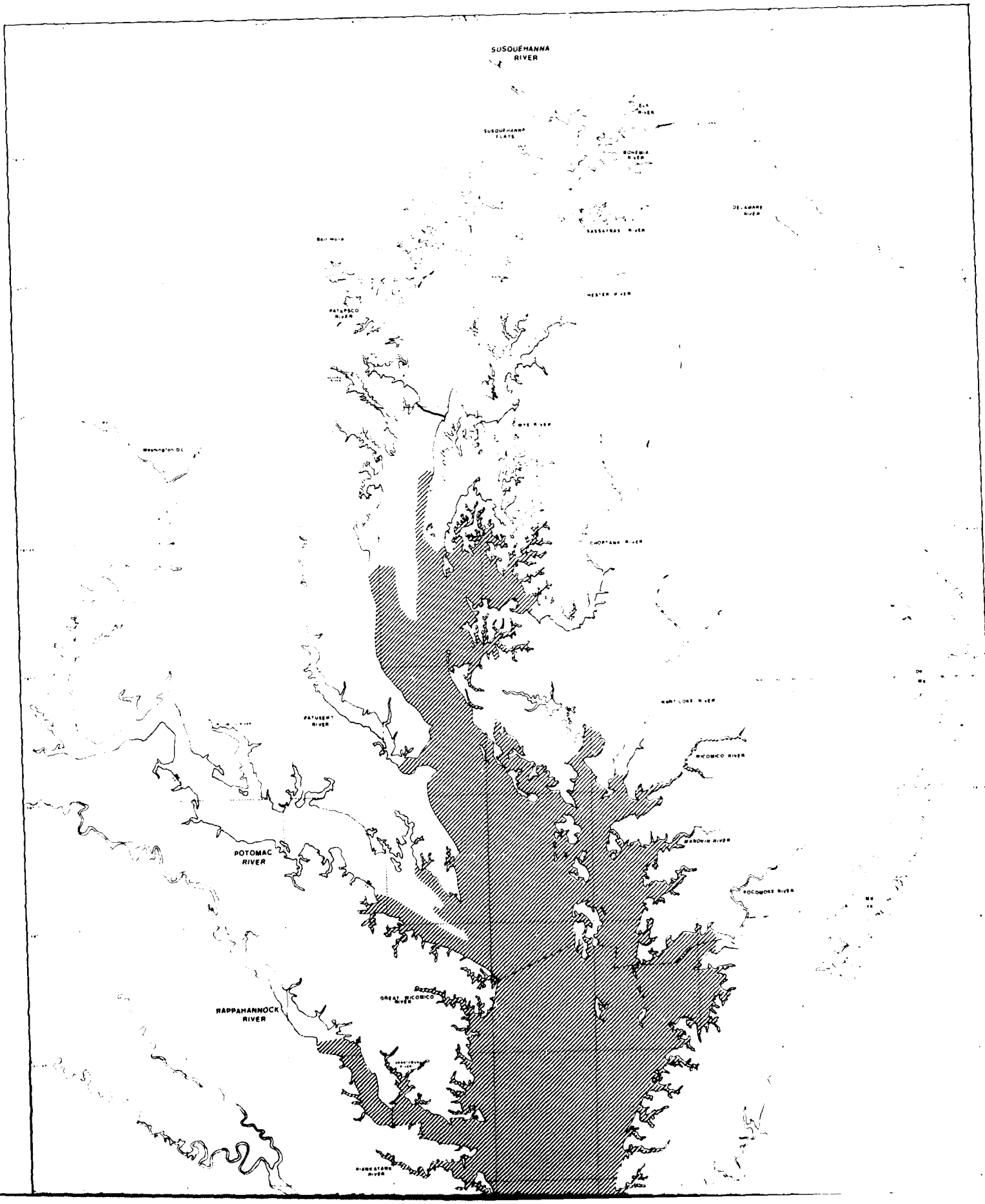

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 22 CHESAPEAKE BAY
Evadne tergestina - CLADOCERAN
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
WESTERN ECO-SYSTEMS TECHNOLOGY INC
COE Hydraulic Model Data

Plate 21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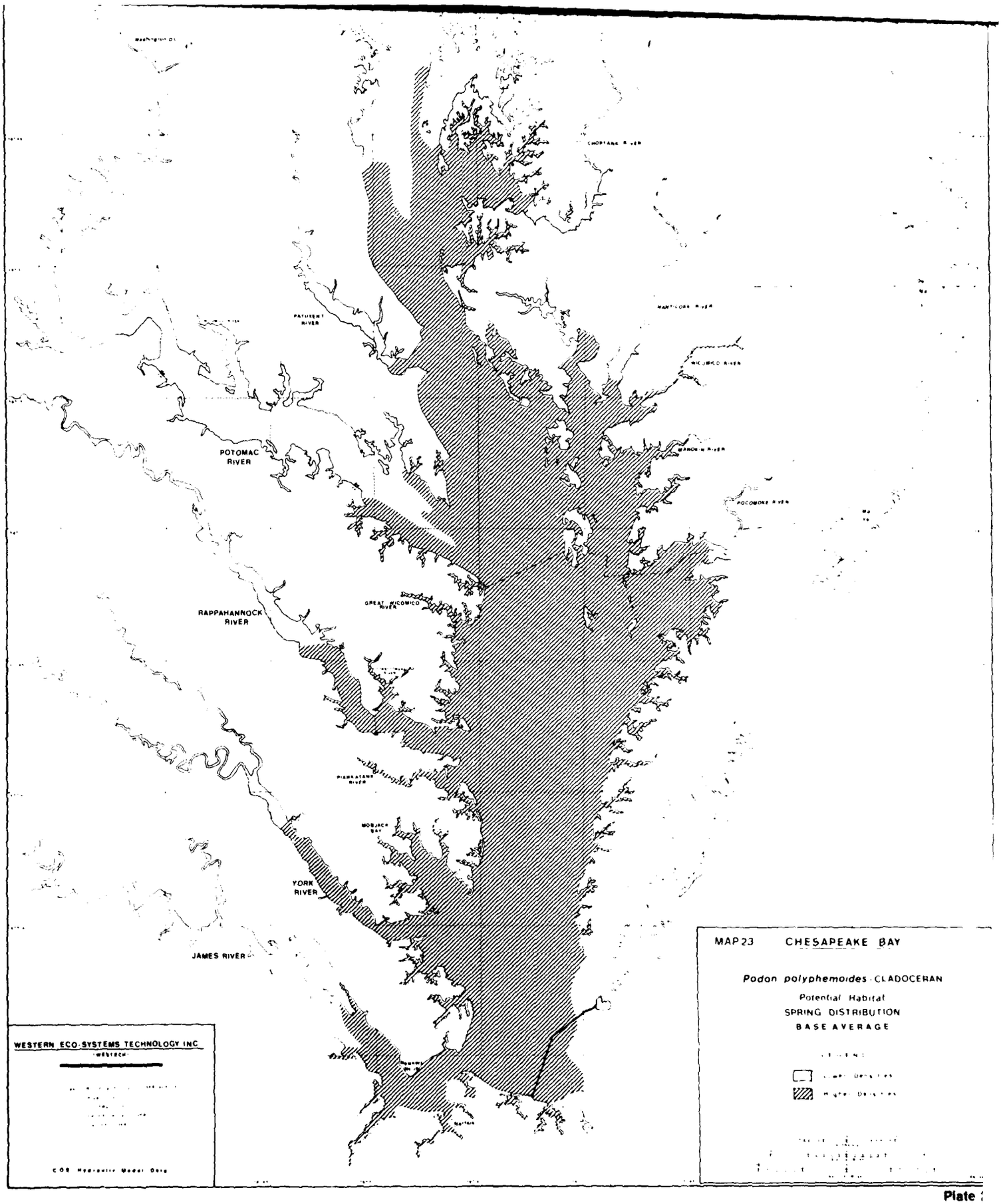
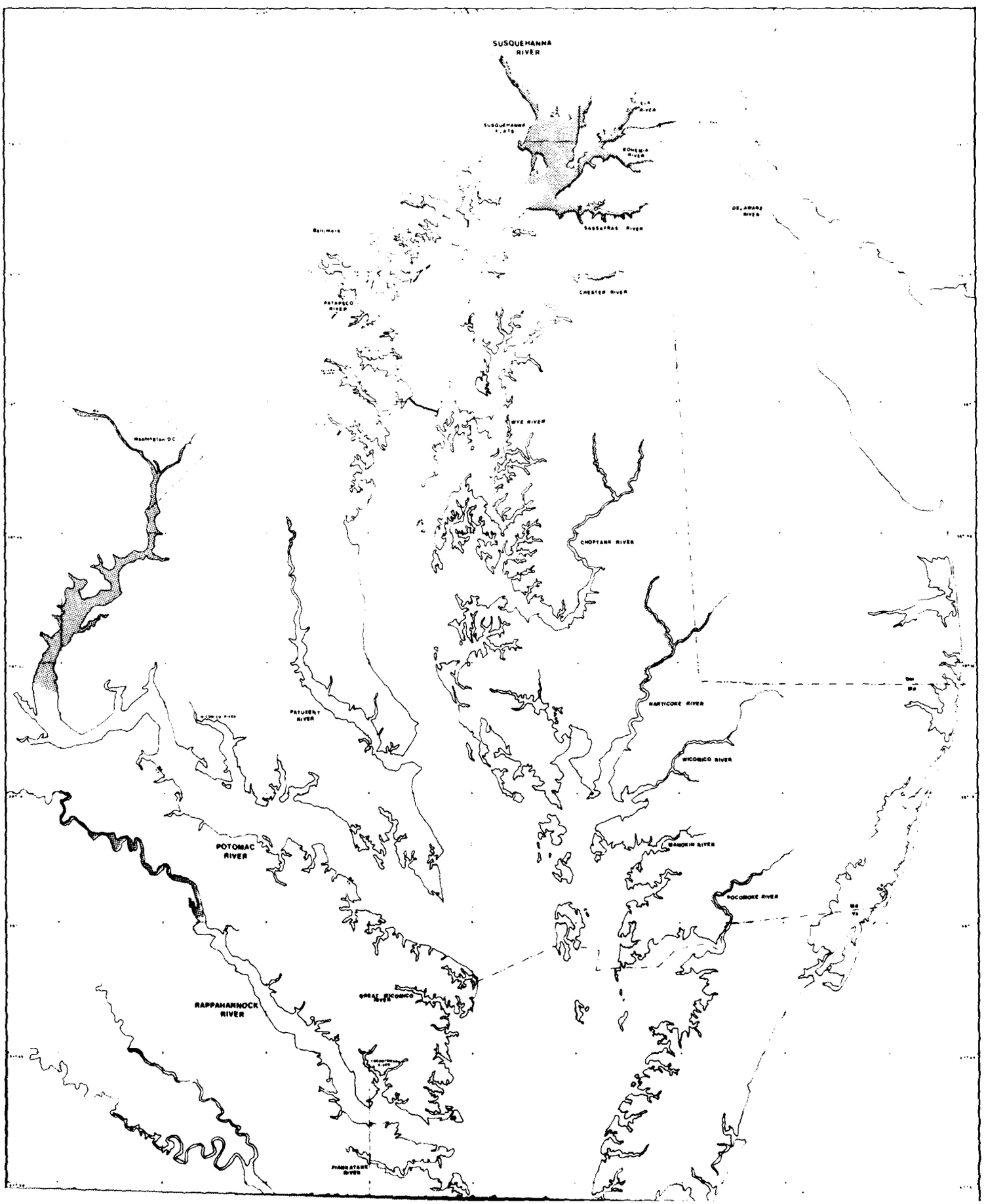
ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
PATAPSCO RIVER
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
CHOPTANK RIVER
MANOKIN RIVER
WICOMICO RIVER
PONCOMOKE RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
MAP 23 CHESAPEAKE BAY
Podon polyphemoides - CLADOCERAN
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE

Plate


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS River
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
ROCKHOLE RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

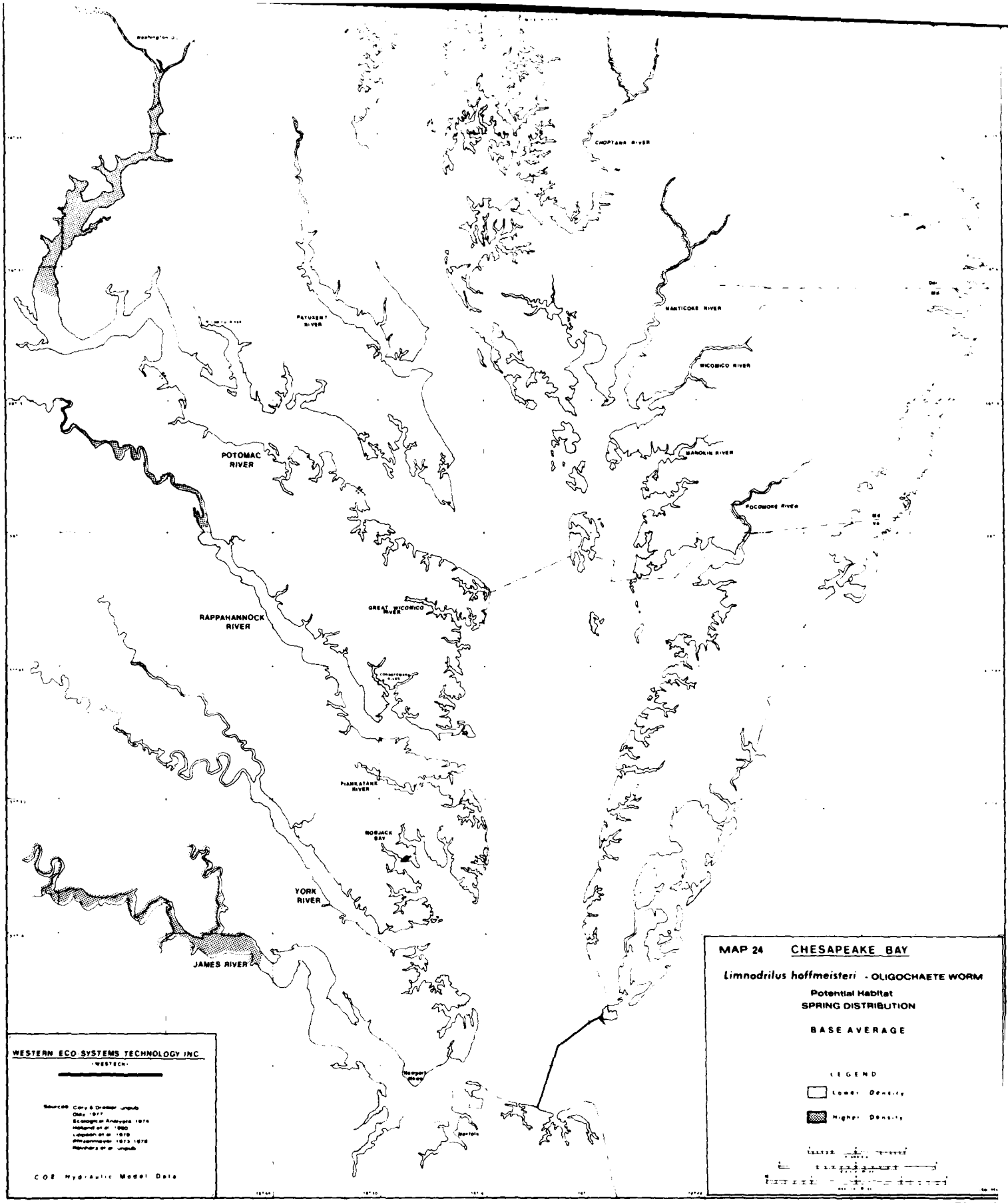
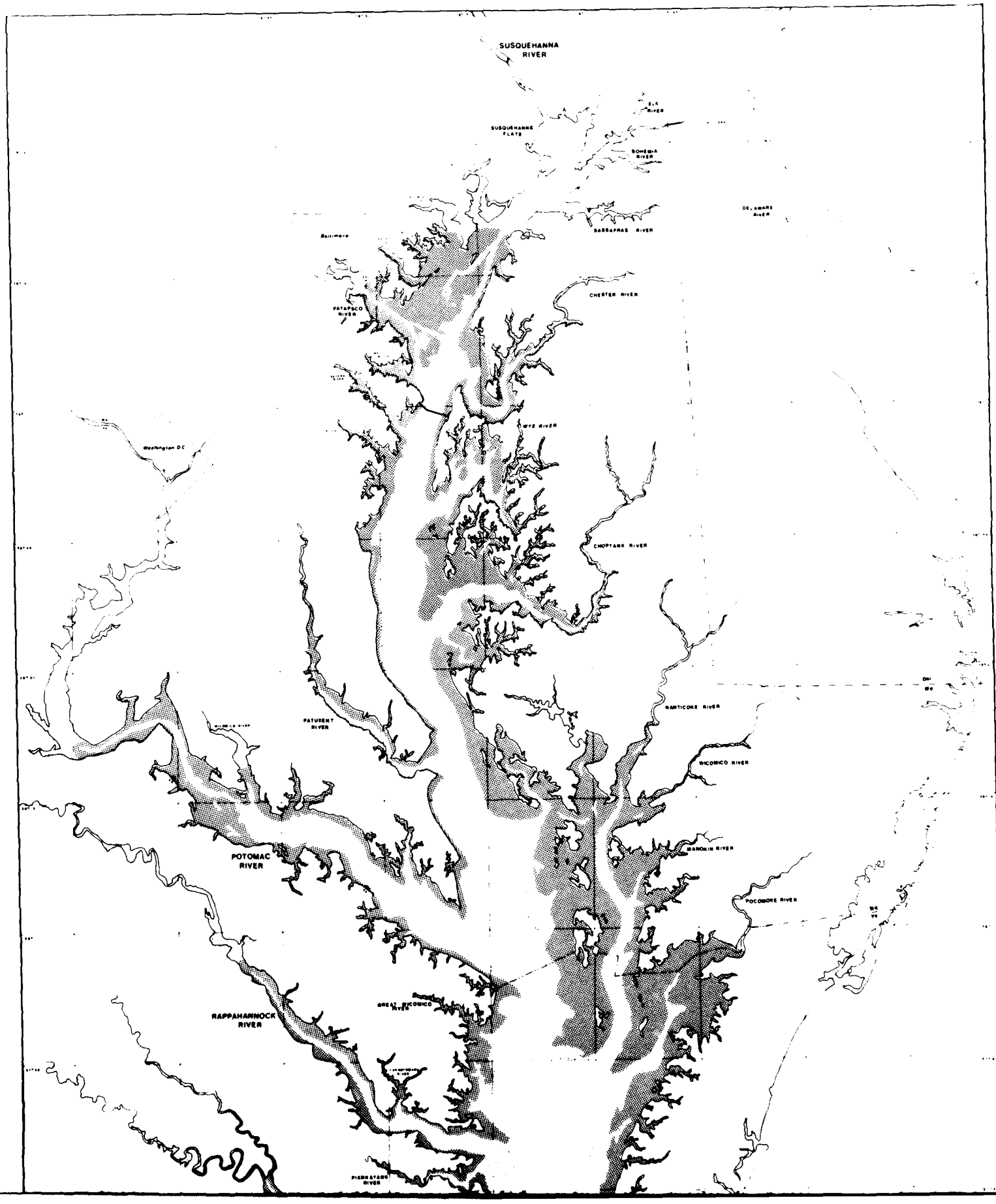

CHOPTANK RIVER
PATUXENT RIVER
MATTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
WESTERN ECO SYSTEMS TECHNOLOGY INC
-WESTECH-
COE Hydraulic Model Data
MAP 24 CHESAPEAKE BAY
Limnodrilus hoffmeisteri - OLIGOCHAETE WORM
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Density
Higher Density

Plate 2


SUSQUEHANNA RIVER
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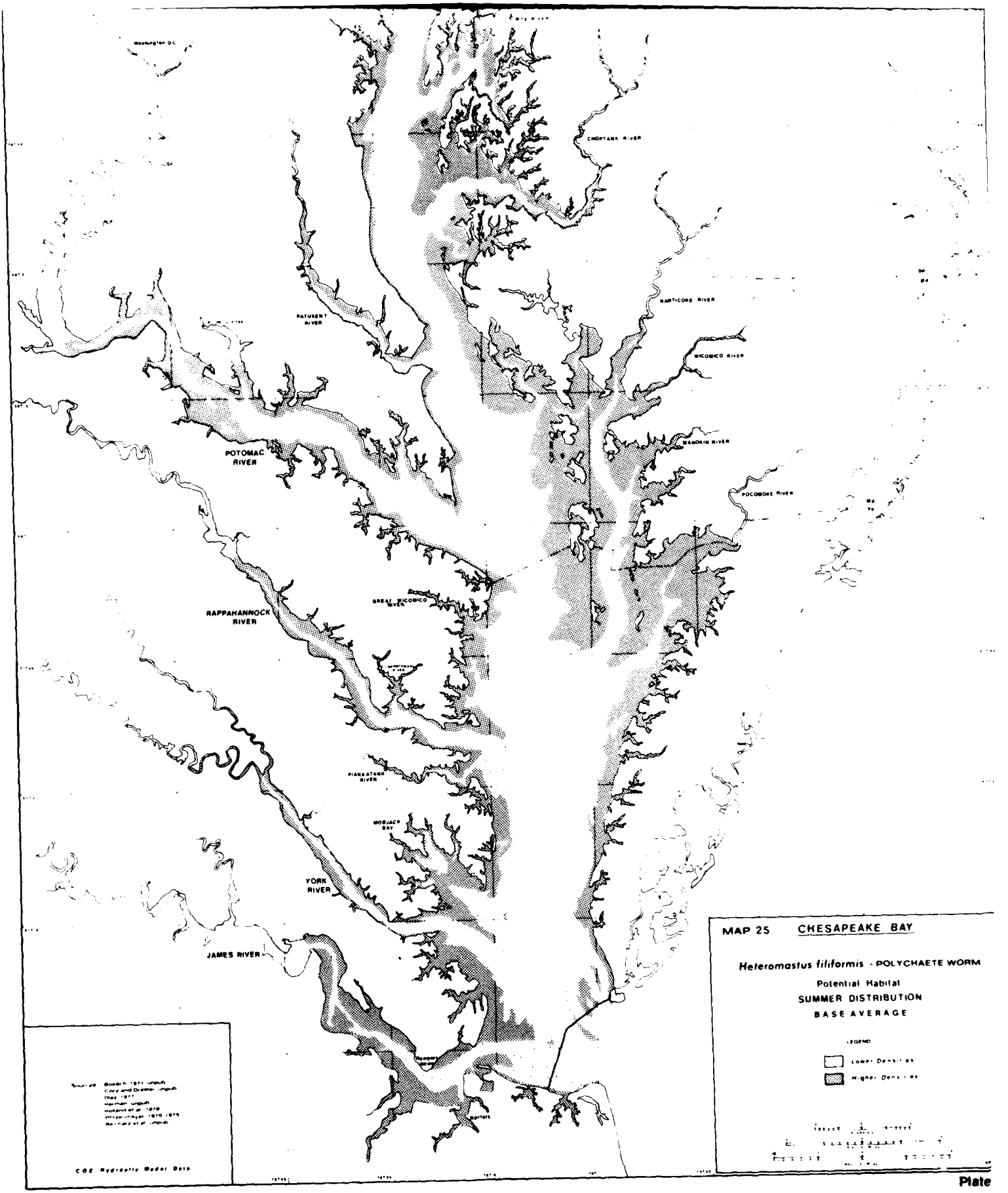
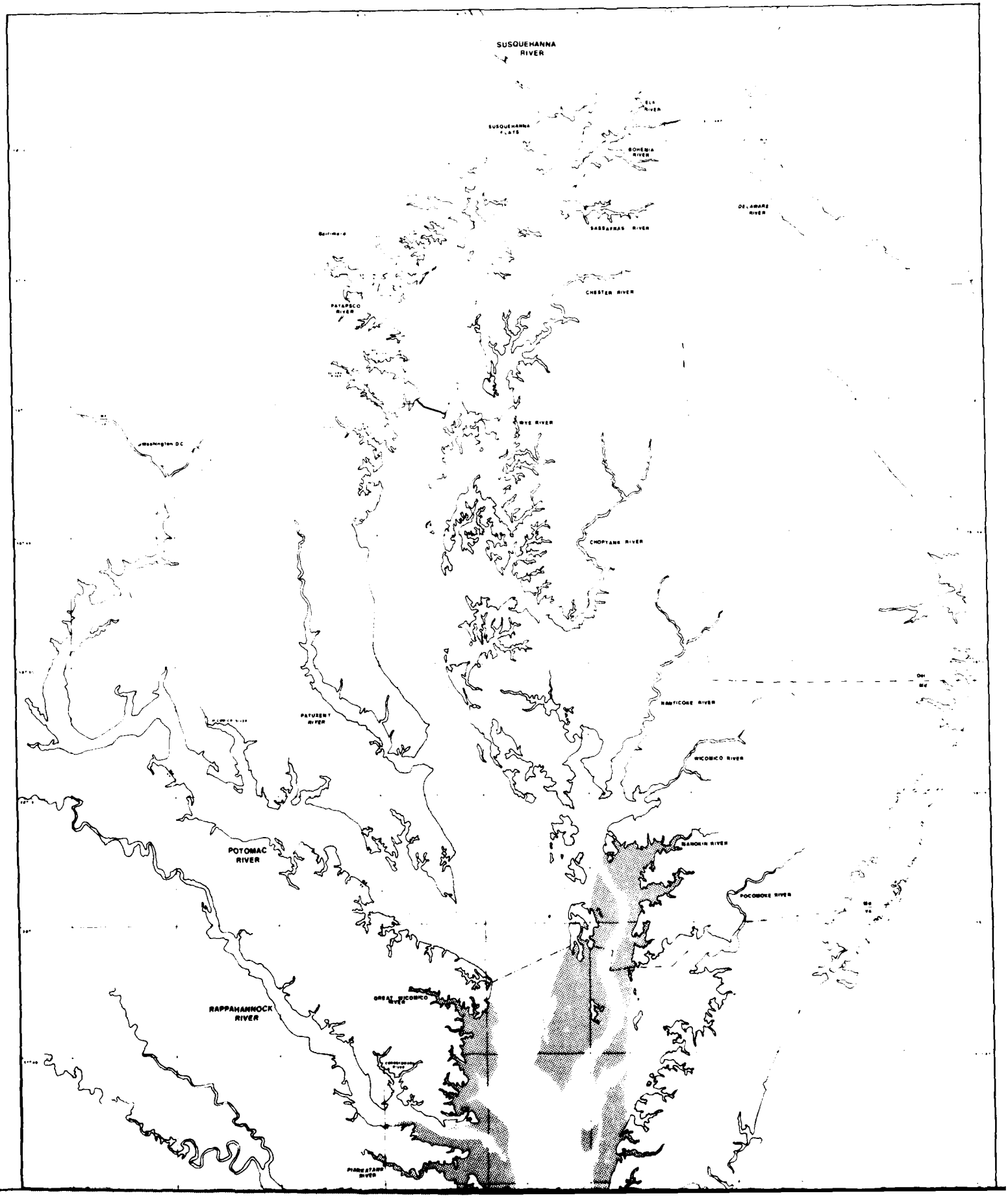
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER


CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 25 CHESAPEAKE BAY
Heteromastus filiformis - POLYCHAETE WORM
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
COE Hydraulic Model Data

Plate


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
CHESTER RIVER
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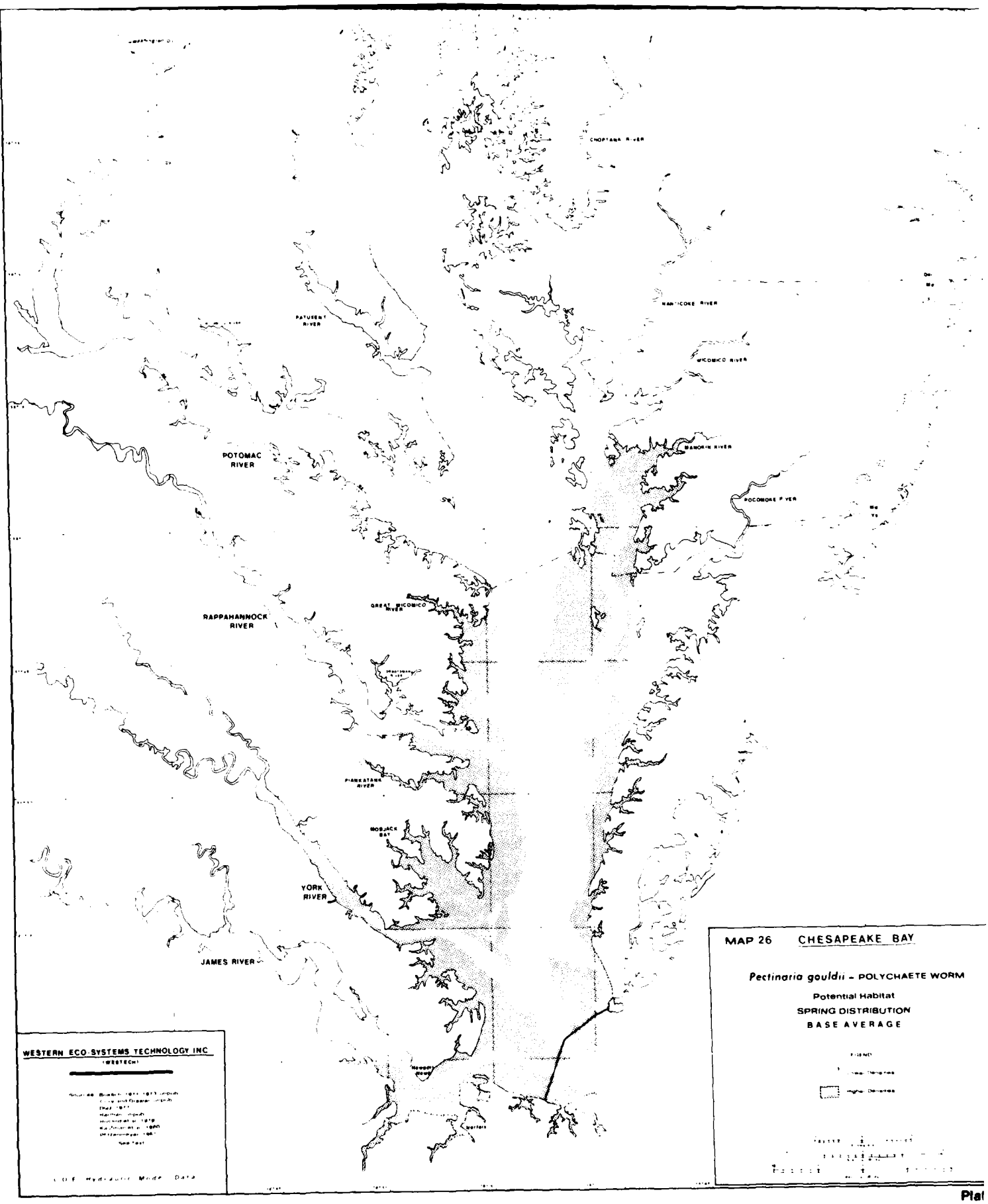
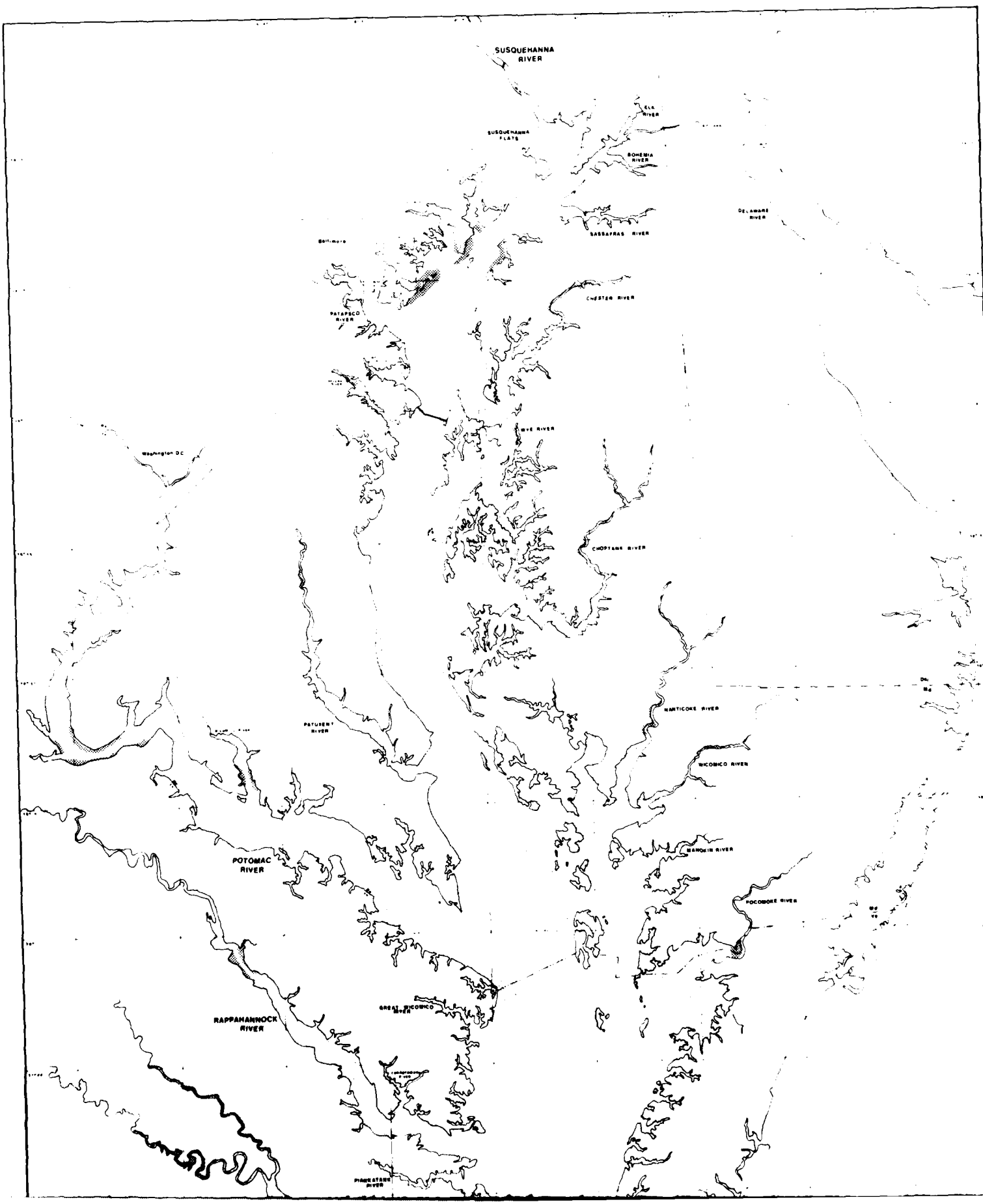
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO River
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
MAP 26 CHESAPEAKE BAY
Pectinaria gouldii - POLYCHAETE WORM
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

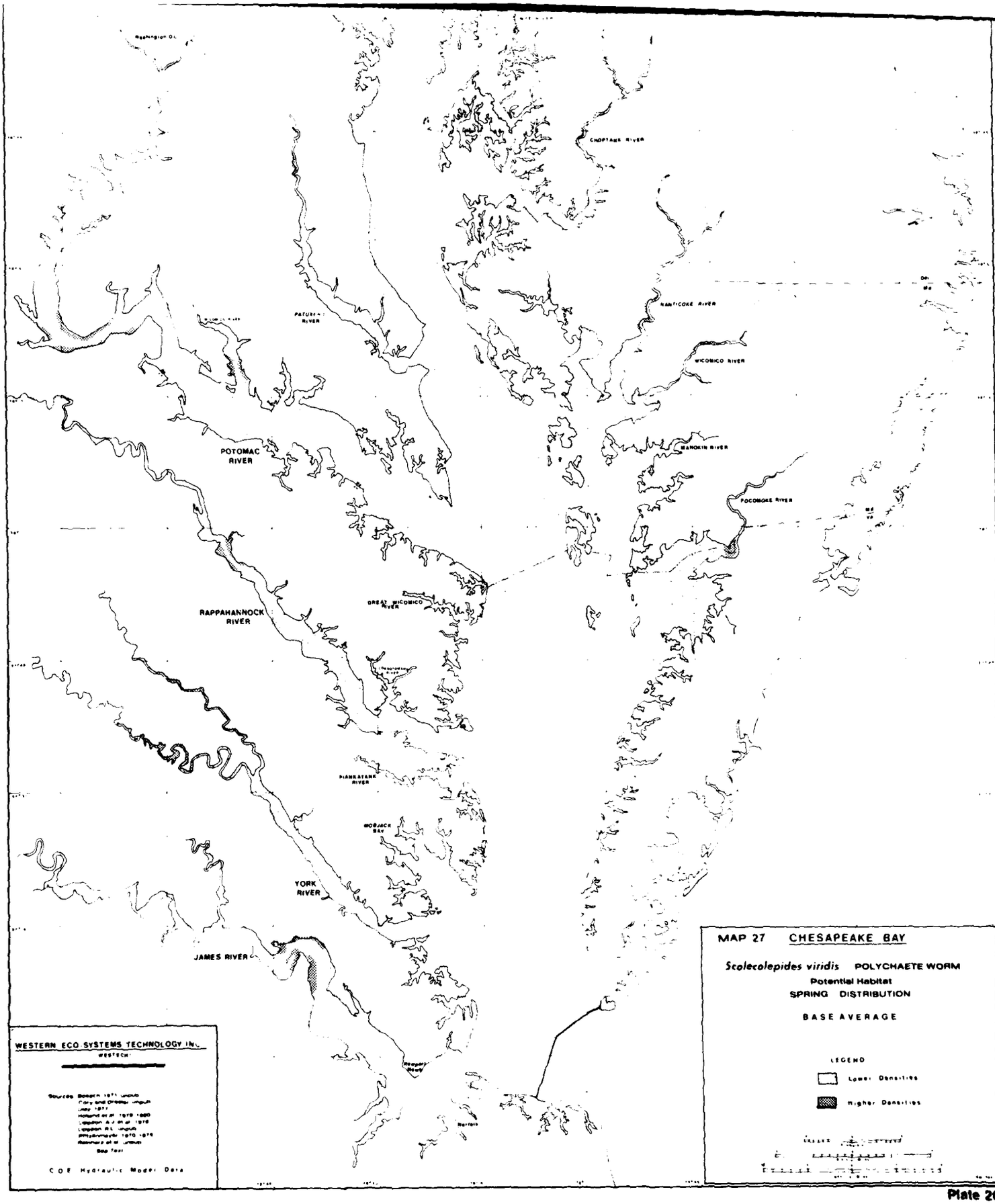
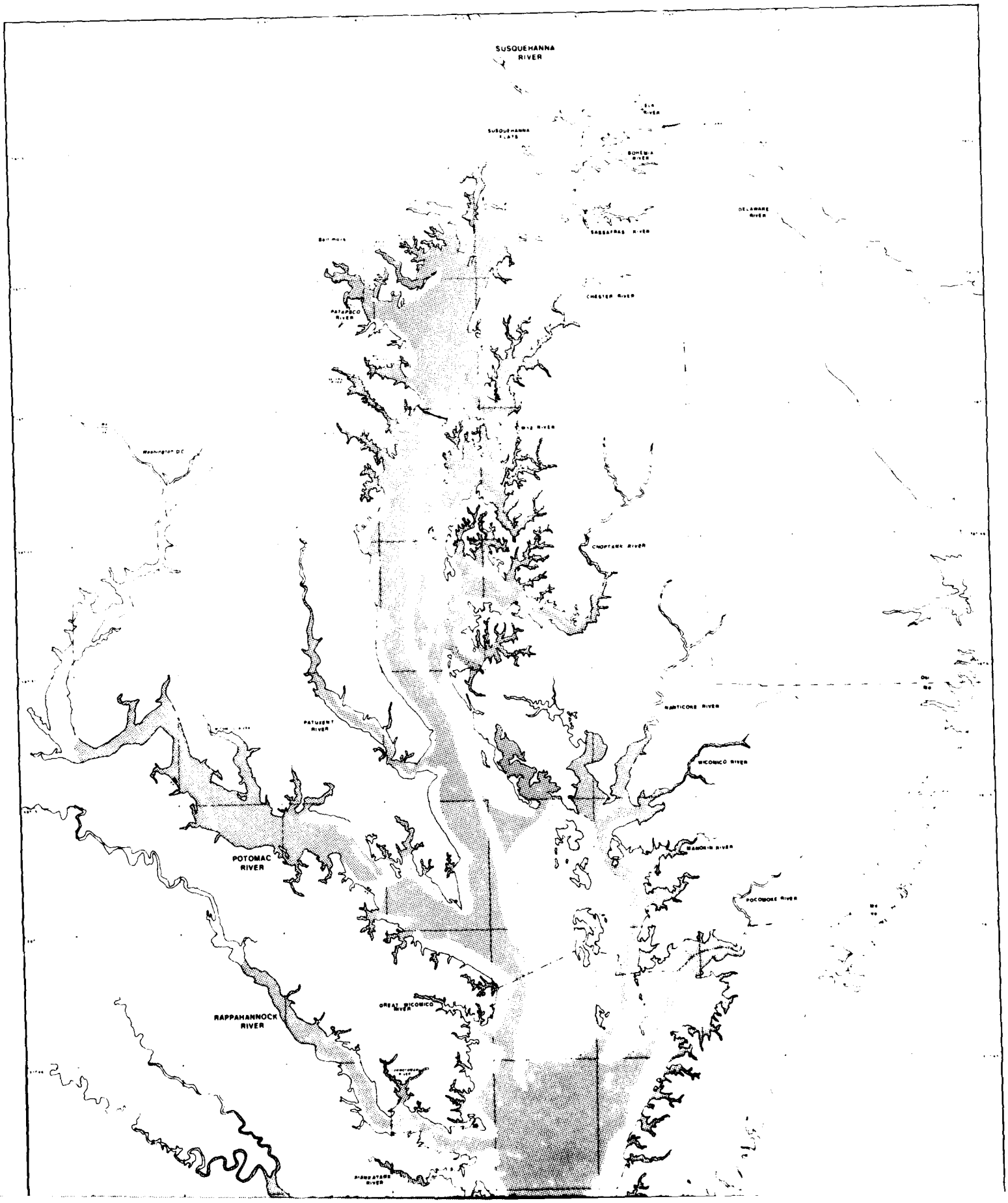
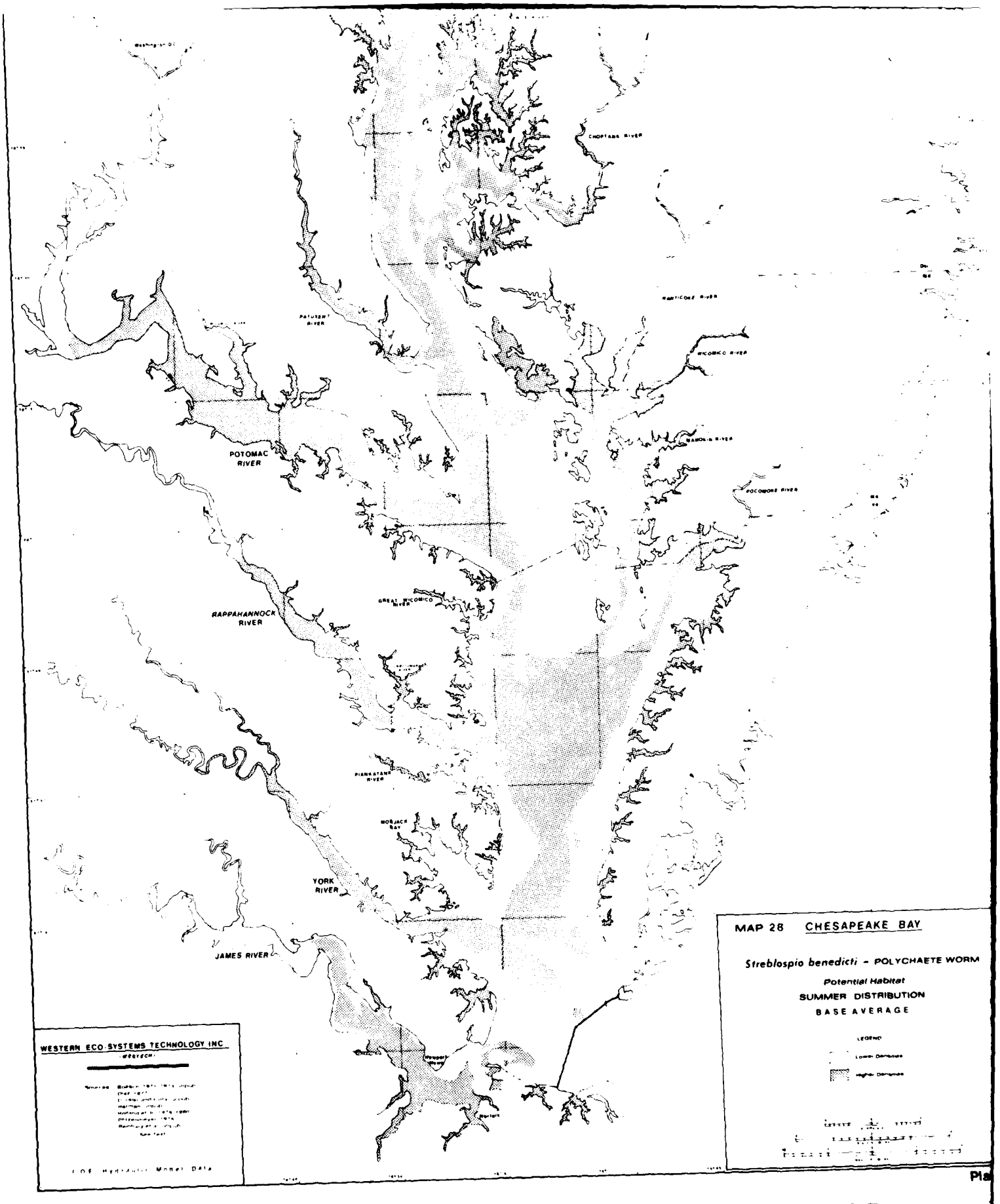
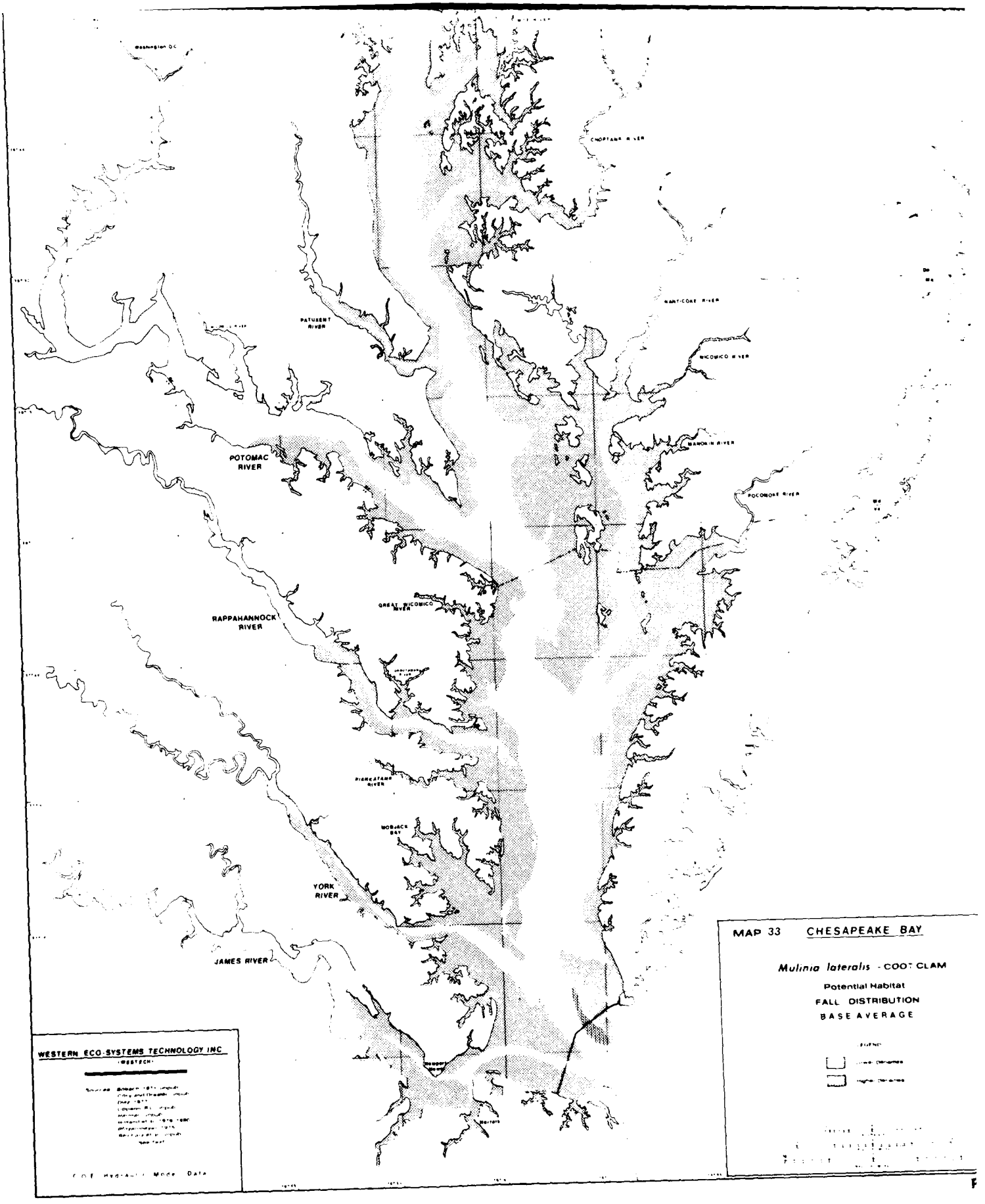

CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
YORK RIVER
JAMES RIVER
MAP 27 CHESAPEAKE BAY
Scolecolepides viridis POLYCHAETE WORM
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Densities
Higher Densities
WESTERN ECO SYSTEMS TECHNOLOGY INC.
WESTECH
COE Hydraulic Model Data

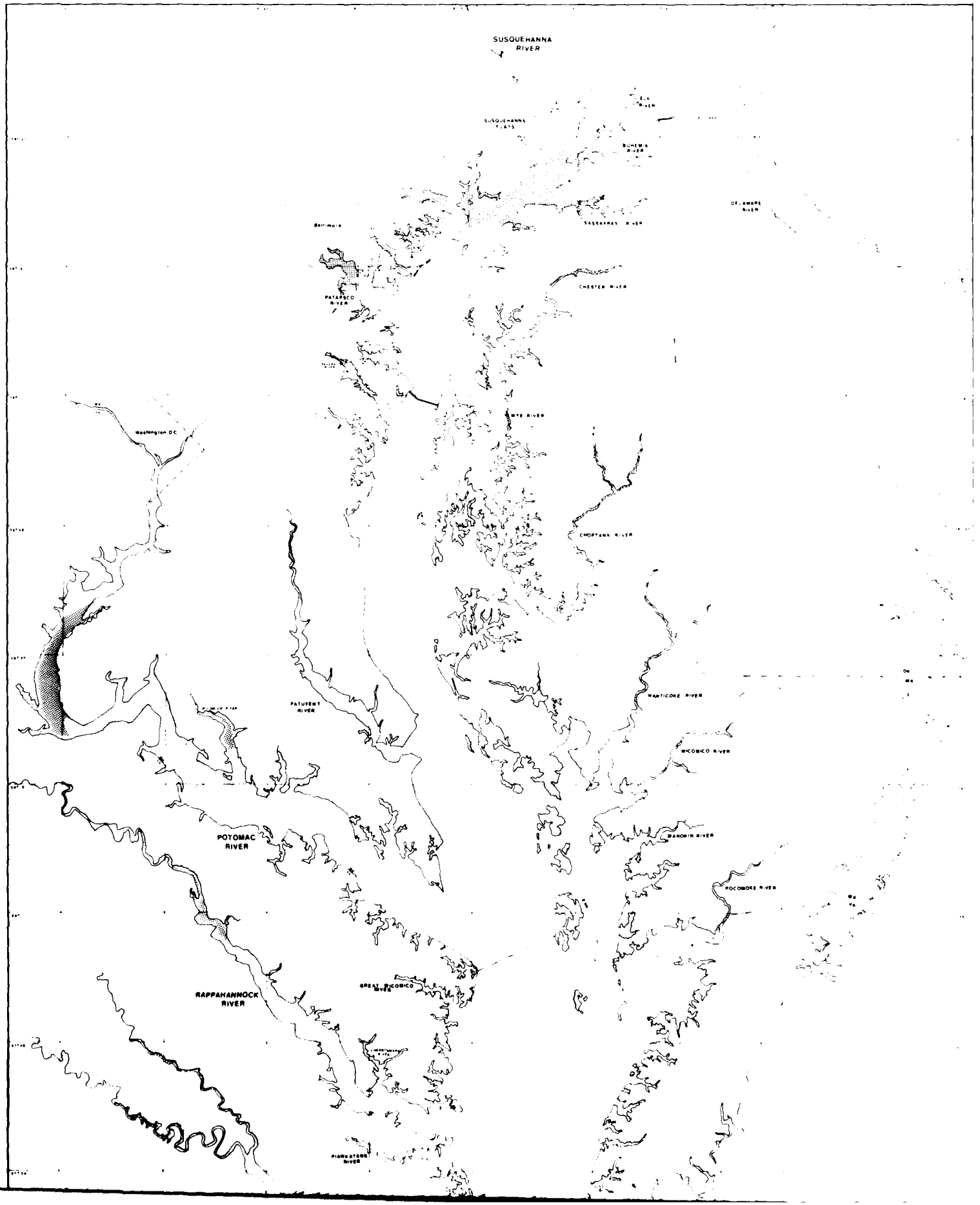
Plate 26


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington DC
SEVERN RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER


CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 28 CHESAPEAKE BAY
Streblospio benedicti - POLYCHAETE WORM
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
WESTERN ECO-SYSTEMS TECHNOLOGY INC
-WESTECH-


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington D.C.
SEVERN RIVER
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
POTOMAC RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
PIANKATANK RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
MAP 33 CHESAPEAKE BAY
Mulinia lateralis - COOT CLAM
Potential Habitat
FALL DISTRIBUTION
BASE AVERAGE
WESTERN ECO-SYSTEMS TECHNOLOGY INC
-WESTECH-


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
MANOKIN RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

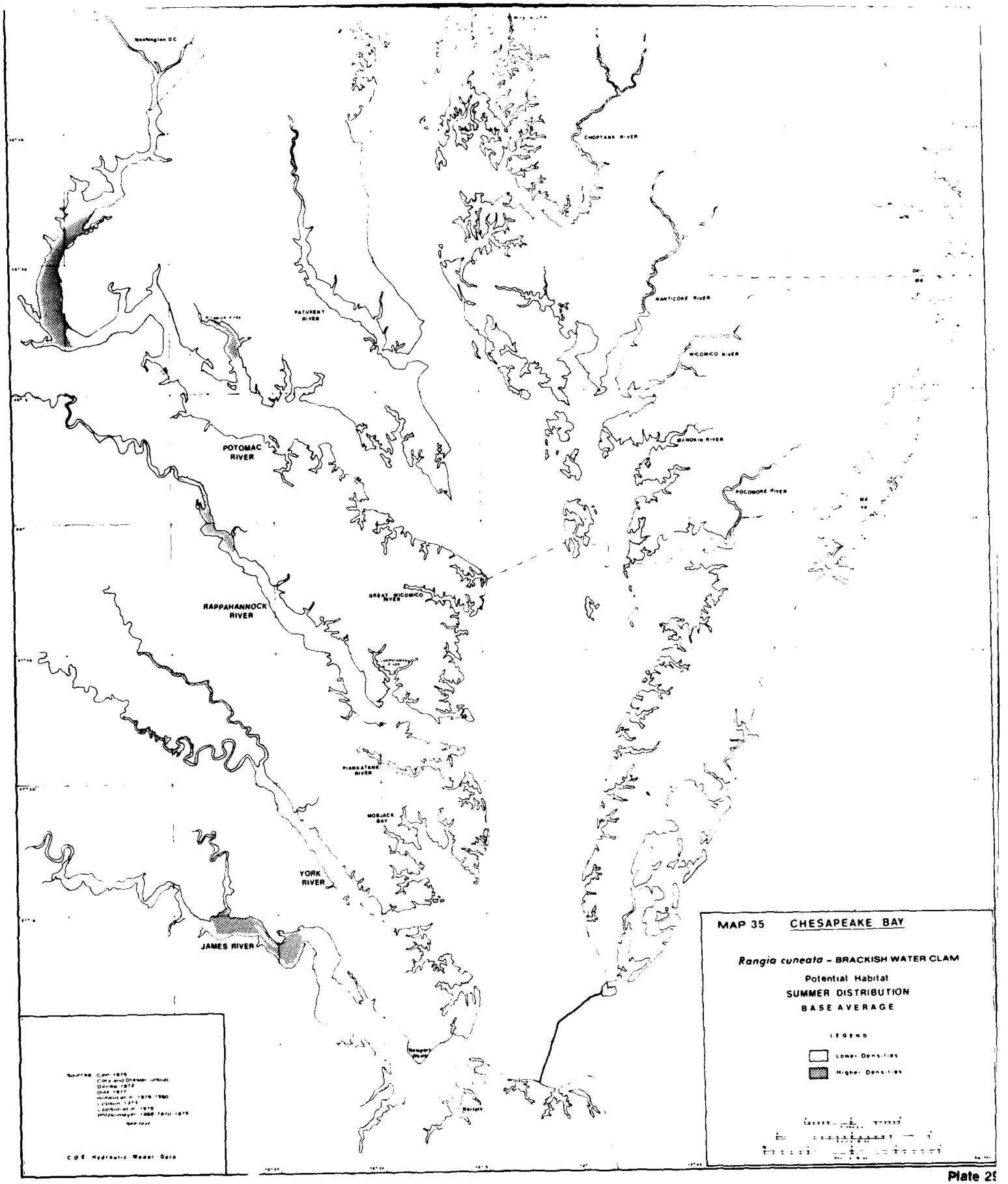
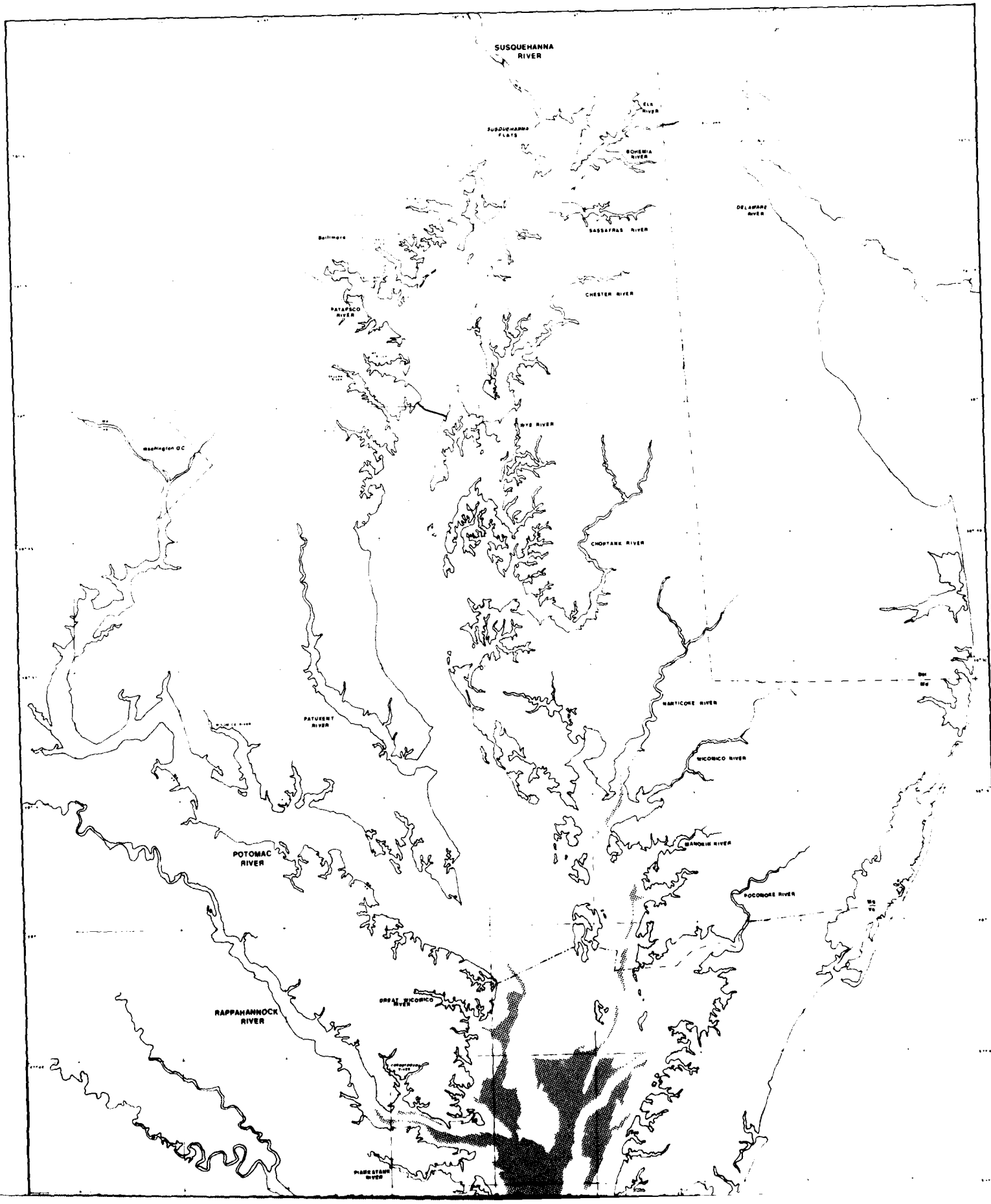

Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
COE Hydraulic Model Data
MAP 35 CHESAPEAKE BAY
Rangia cuneata - BRACKISH WATER CLAM
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Densities
Higher Densities

Plate 25


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER

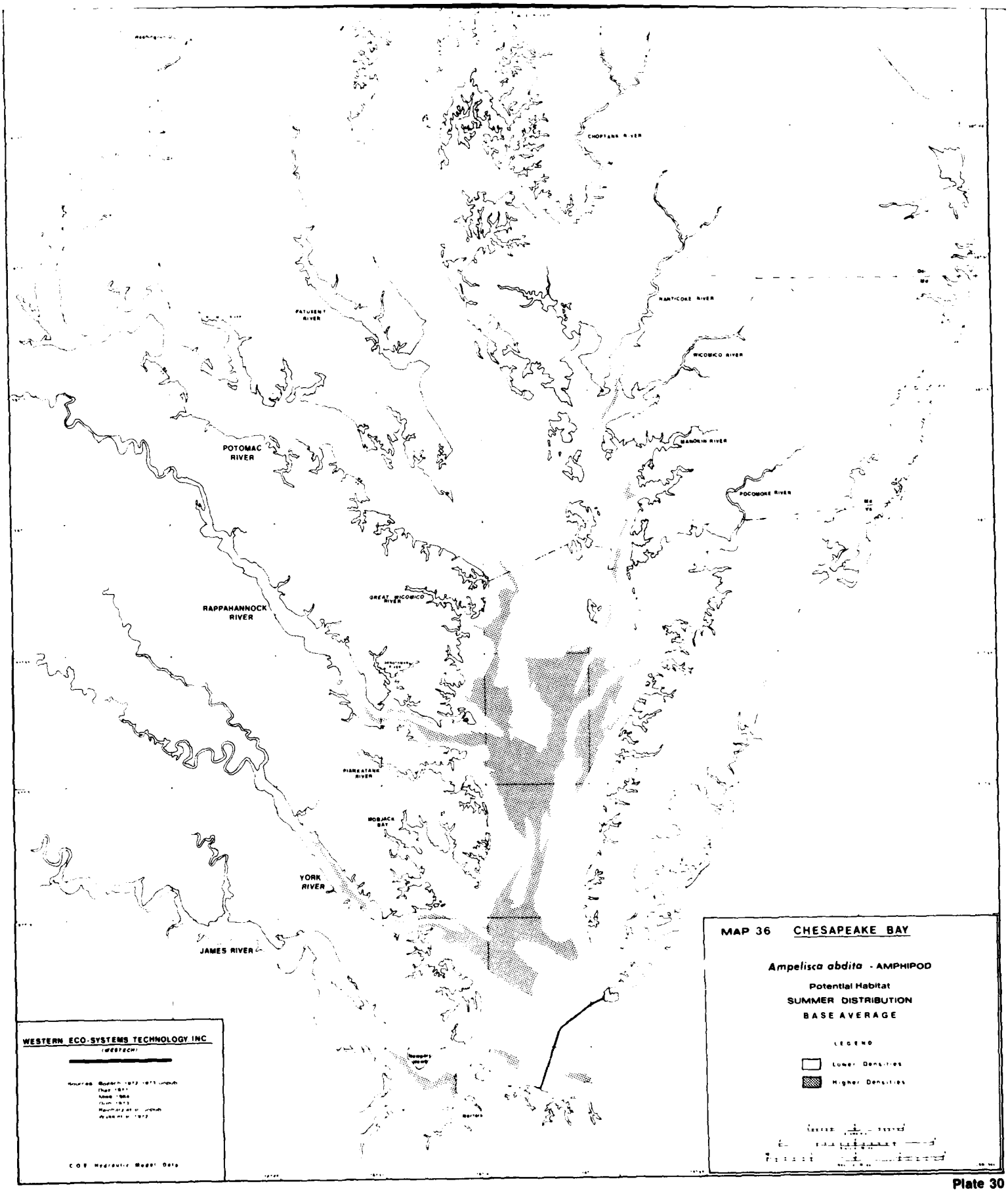
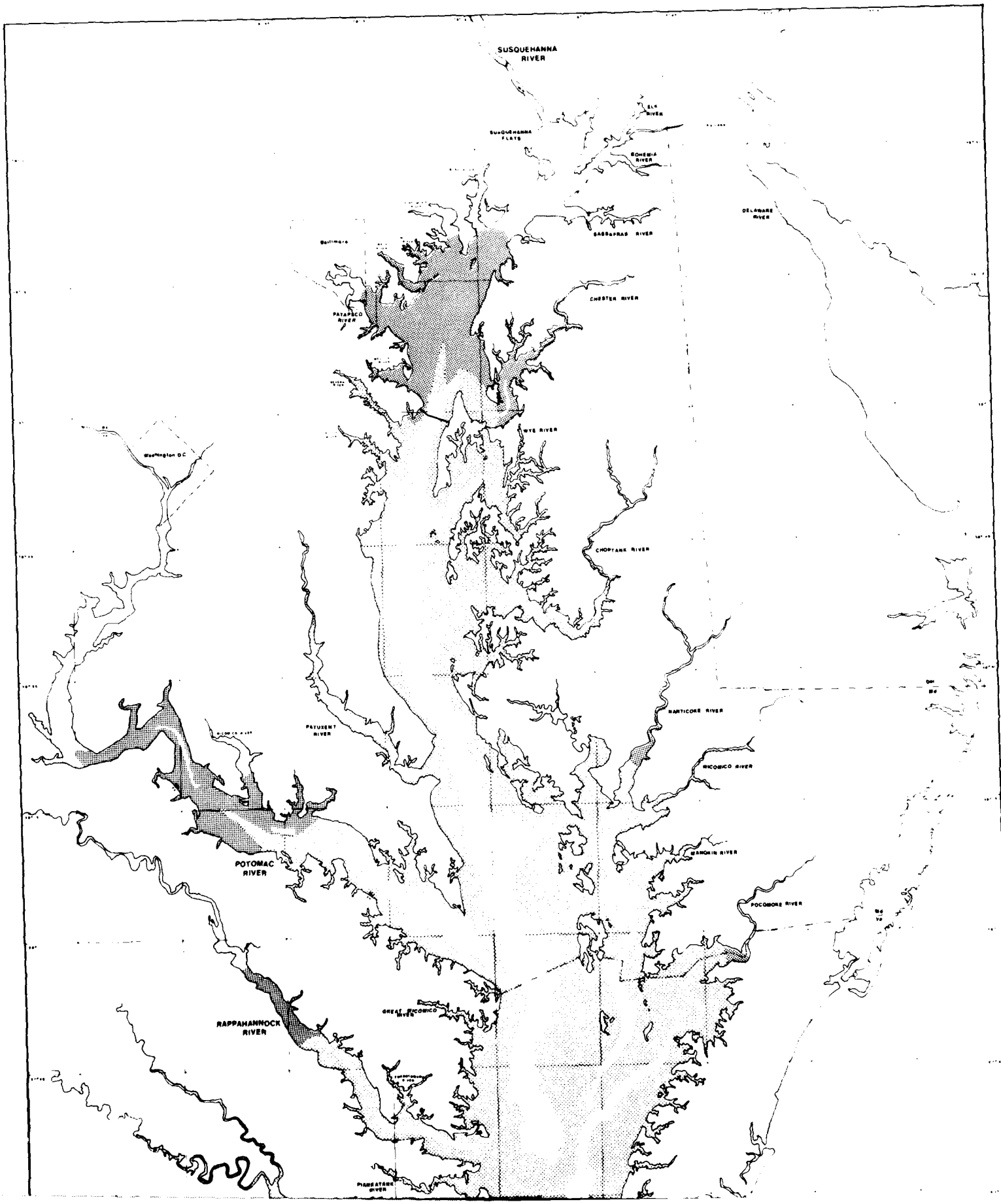
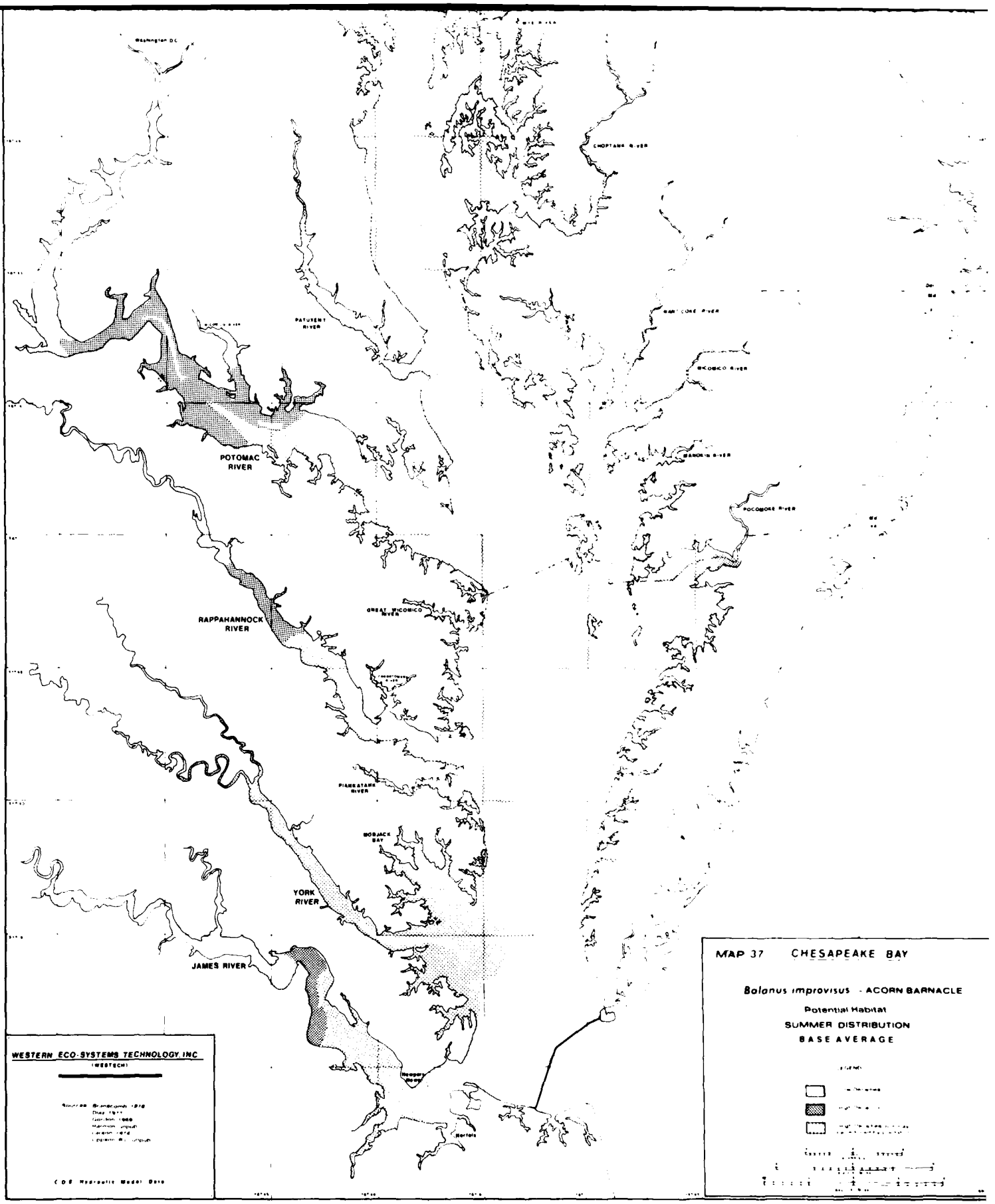
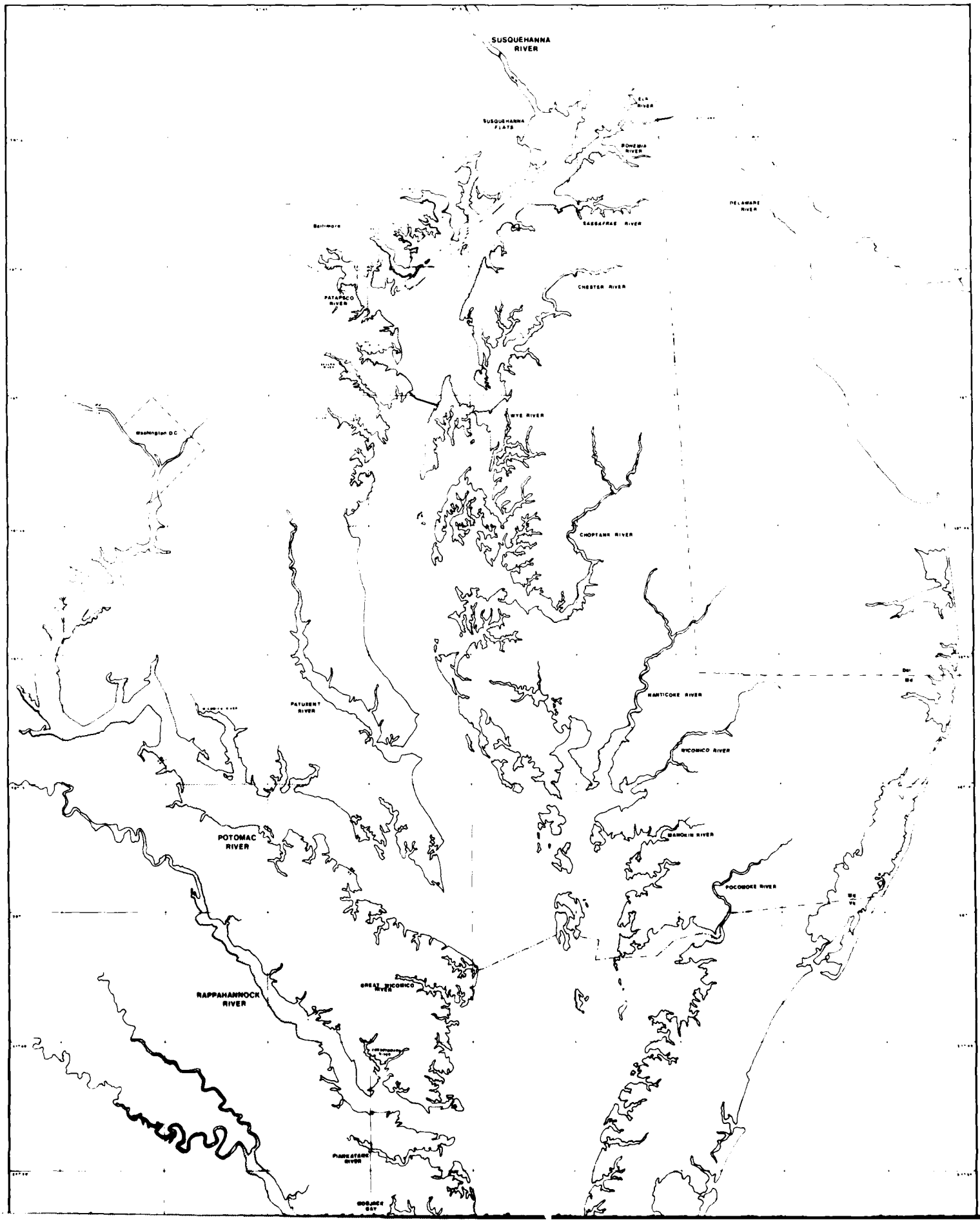

CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 36 CHESAPEAKE BAY
Ampelisca abdita - AMPHIPOD
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Densities
Higher Densities
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
C.O.E. Hydraulic Model Data

Plate 30


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
MYE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
PIANKATANK RIVER
MOBJACK BAY
GREAT WICOMICO RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY, INC
(WESTECH)
MAP 37 CHESAPEAKE BAY
Balanus improvisus - ACORN BARNACLE
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE

Plate


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY

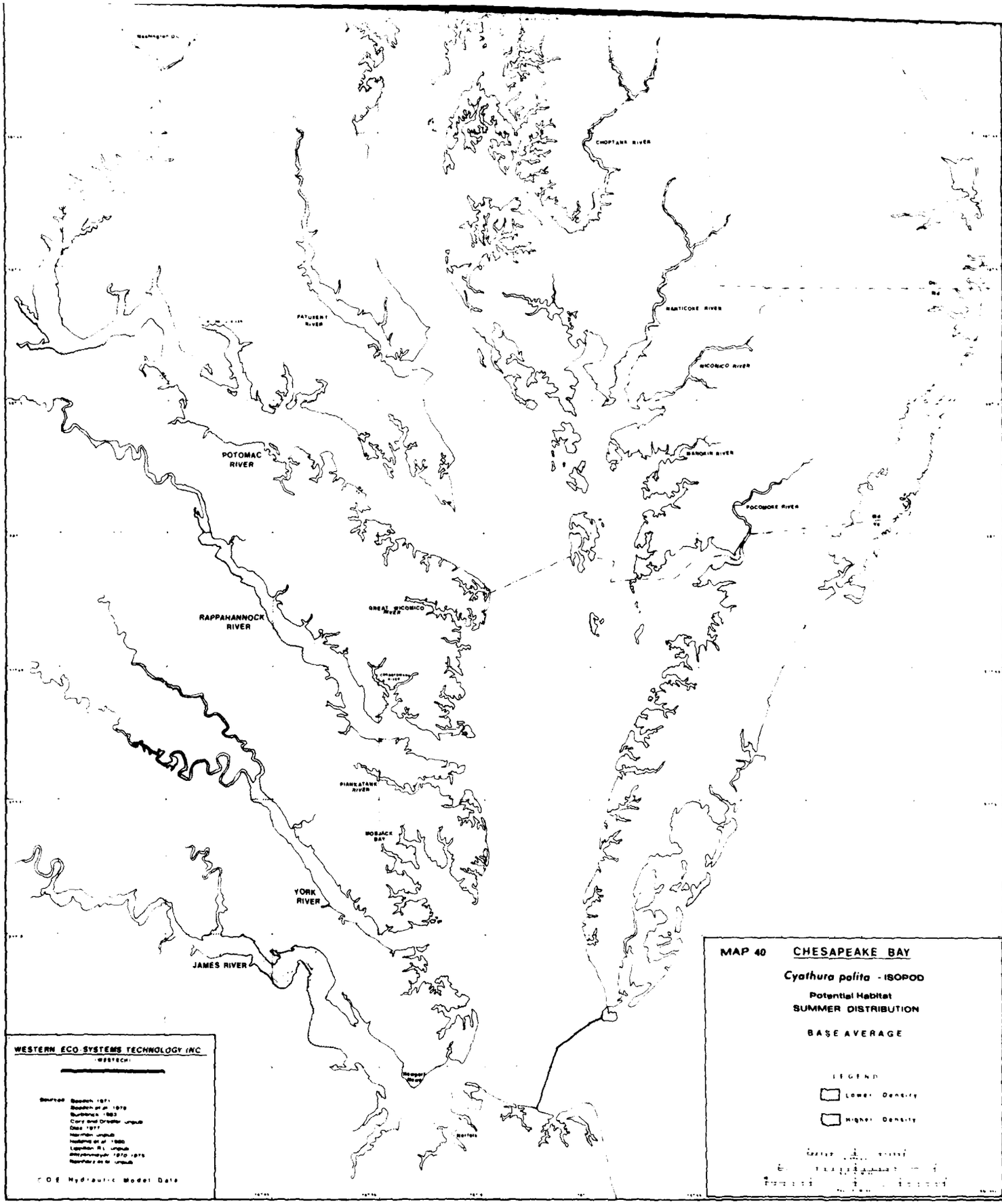
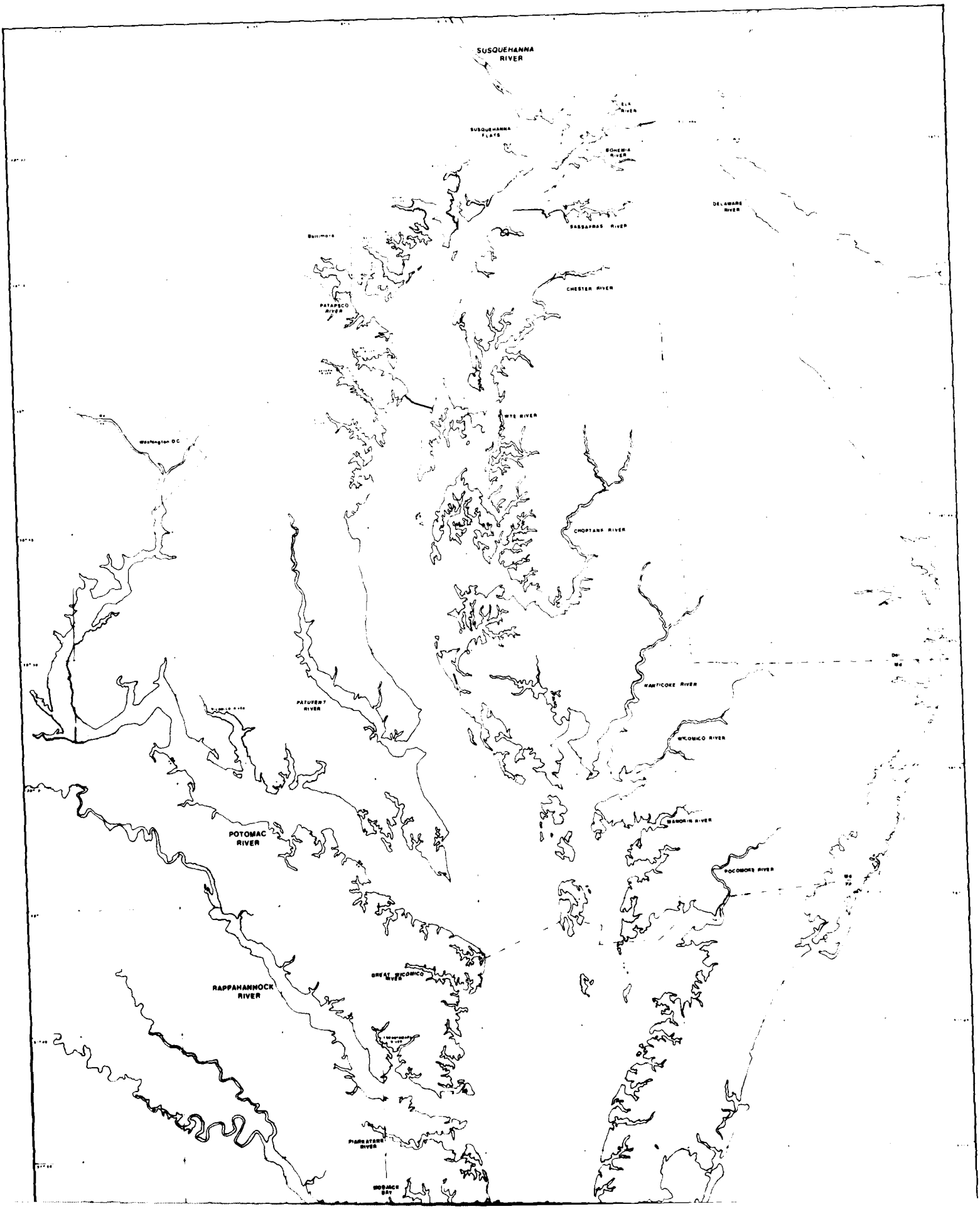

CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 40 CHESAPEAKE BAY
Cyathura polita - ISOPOD
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Density
Higher Density
WESTERN ECO SYSTEMS TECHNOLOGY INC
WESTECH
COE Hydraulic Model Data

Plate 3


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
TANGIER SOUND

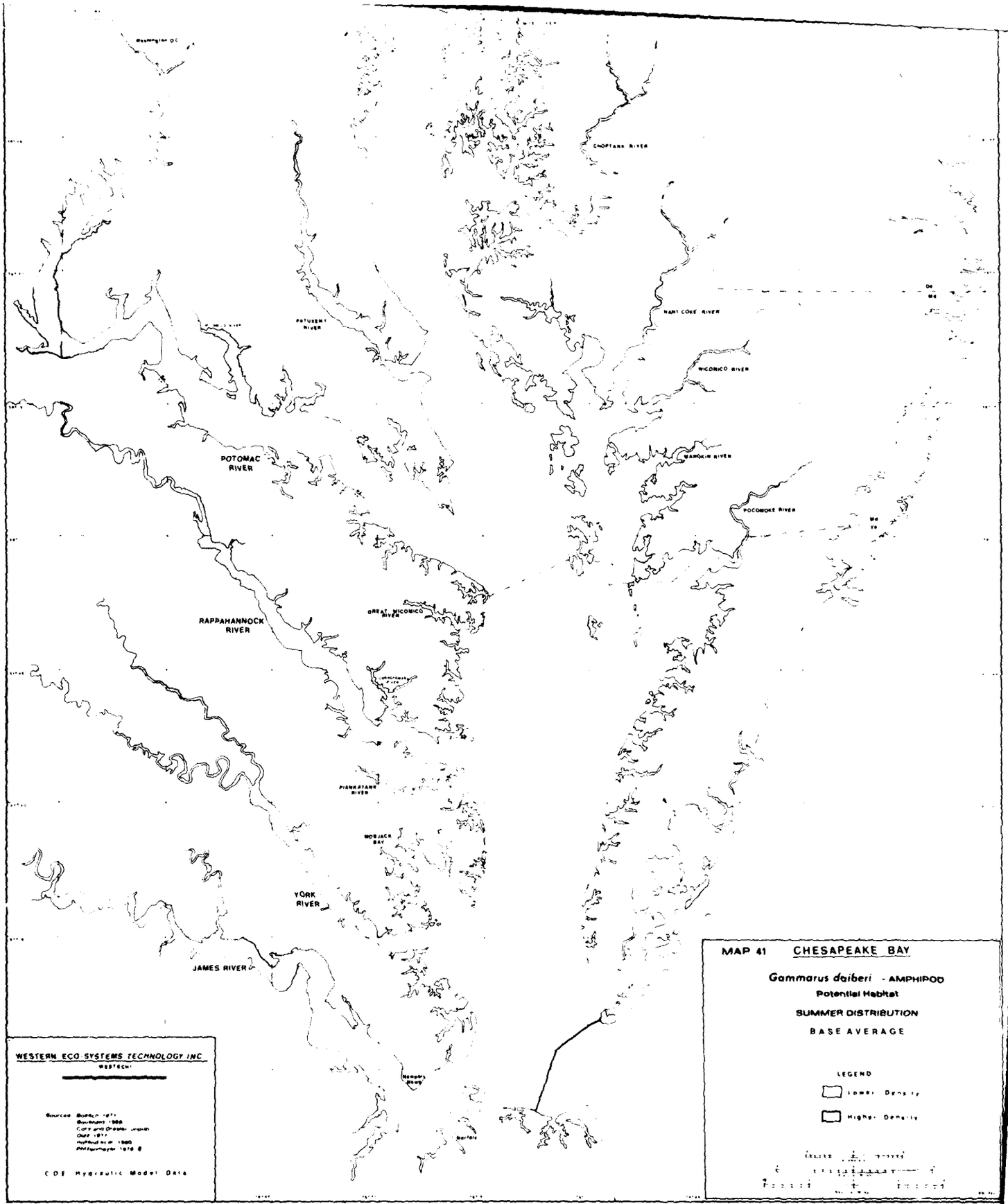
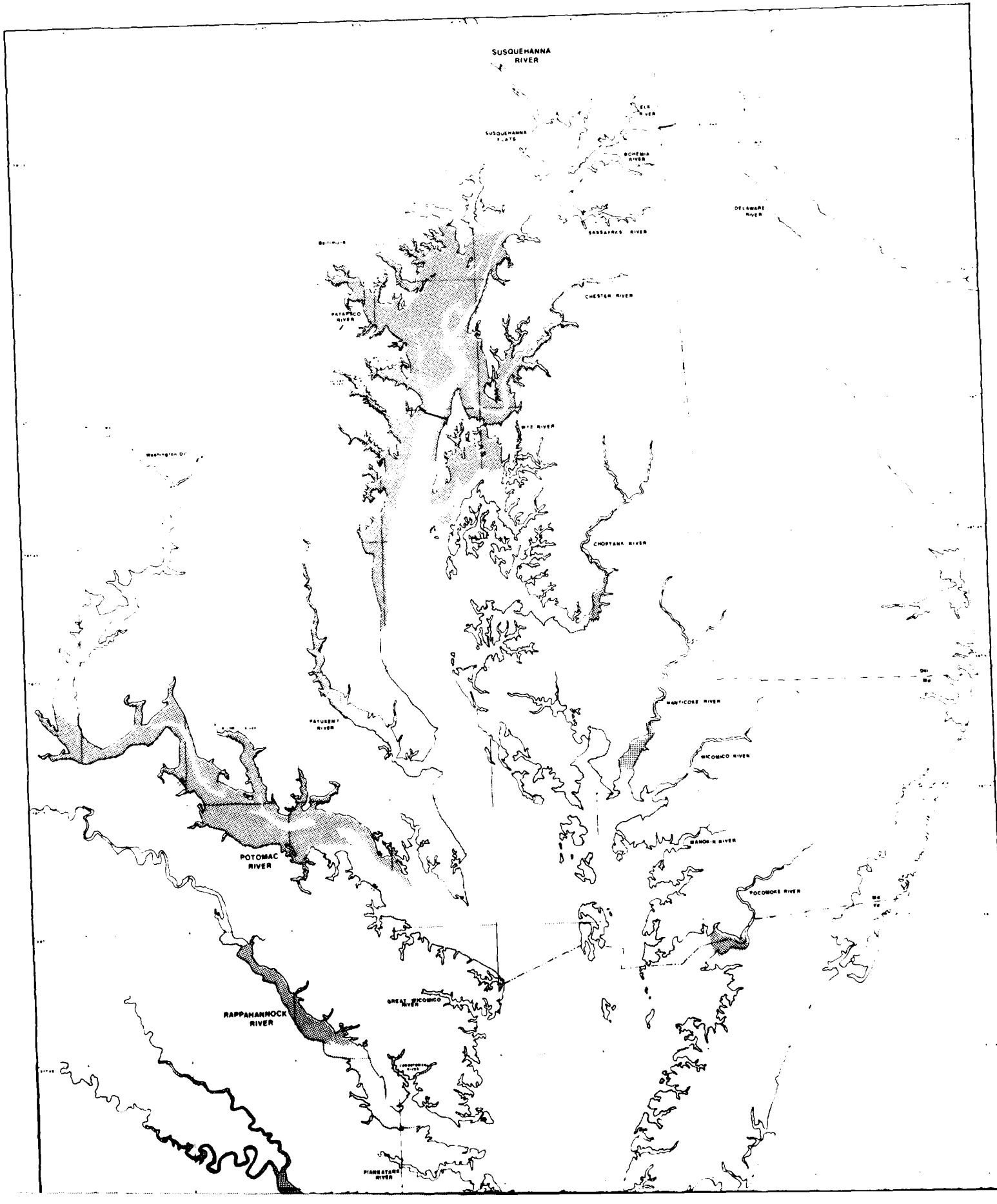

CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
MAP 41 CHESAPEAKE BAY
Gammarus daiberi - AMPHIPOD
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Density
Higher Density
WESTERN ECO SYSTEMS TECHNOLOGY INC
WESTECH
COE Hydraulic Model Data

Plate 33


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

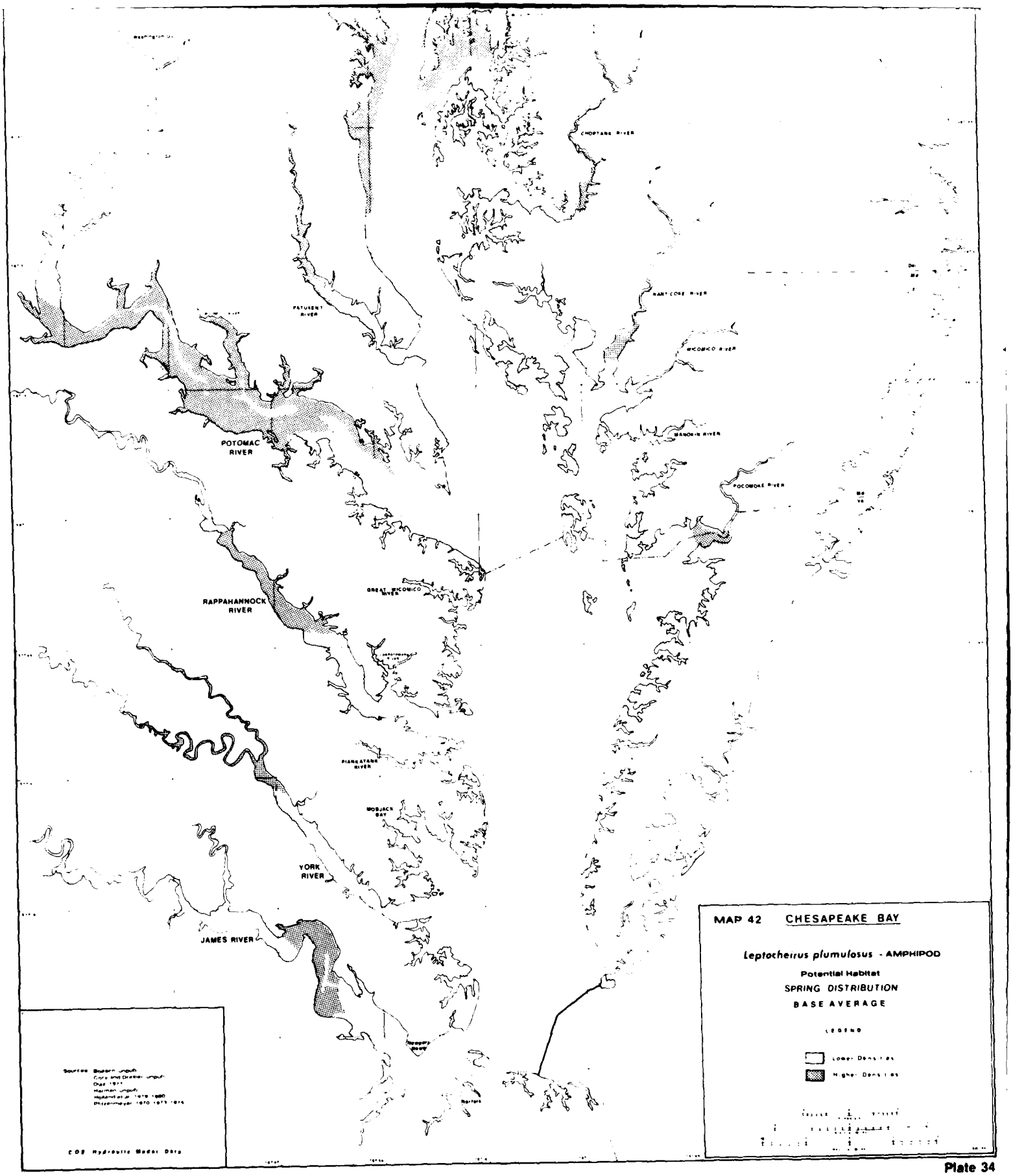

CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
YORK RIVER
JAMES RIVER
MAP 42 CHESAPEAKE BAY
Leptocheirus plumulosus - AMPHIPOD
Potential Habitat
SPRING DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Densities
Higher Densities
EDS Hydraulic Model Data

Plate 34


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

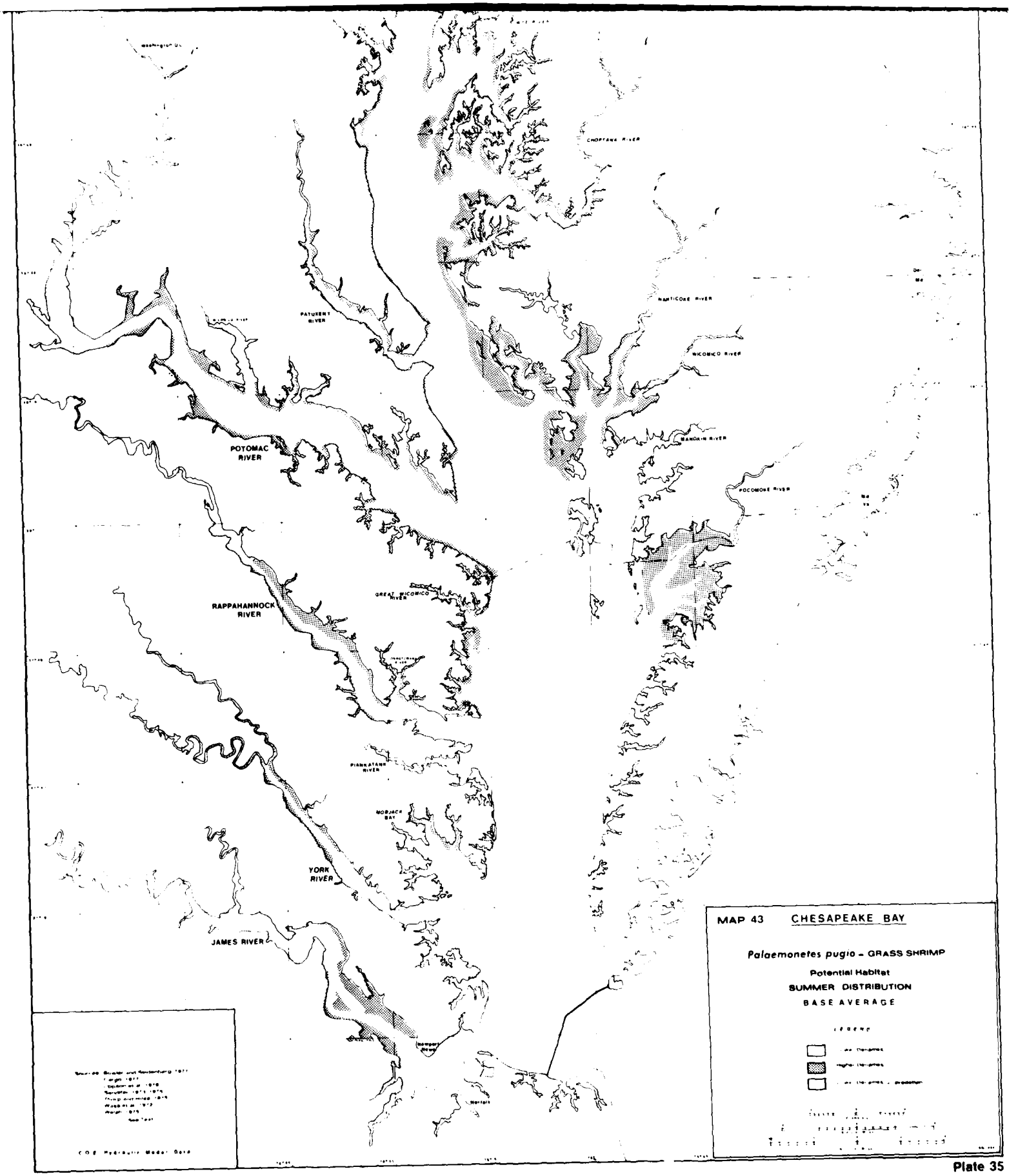
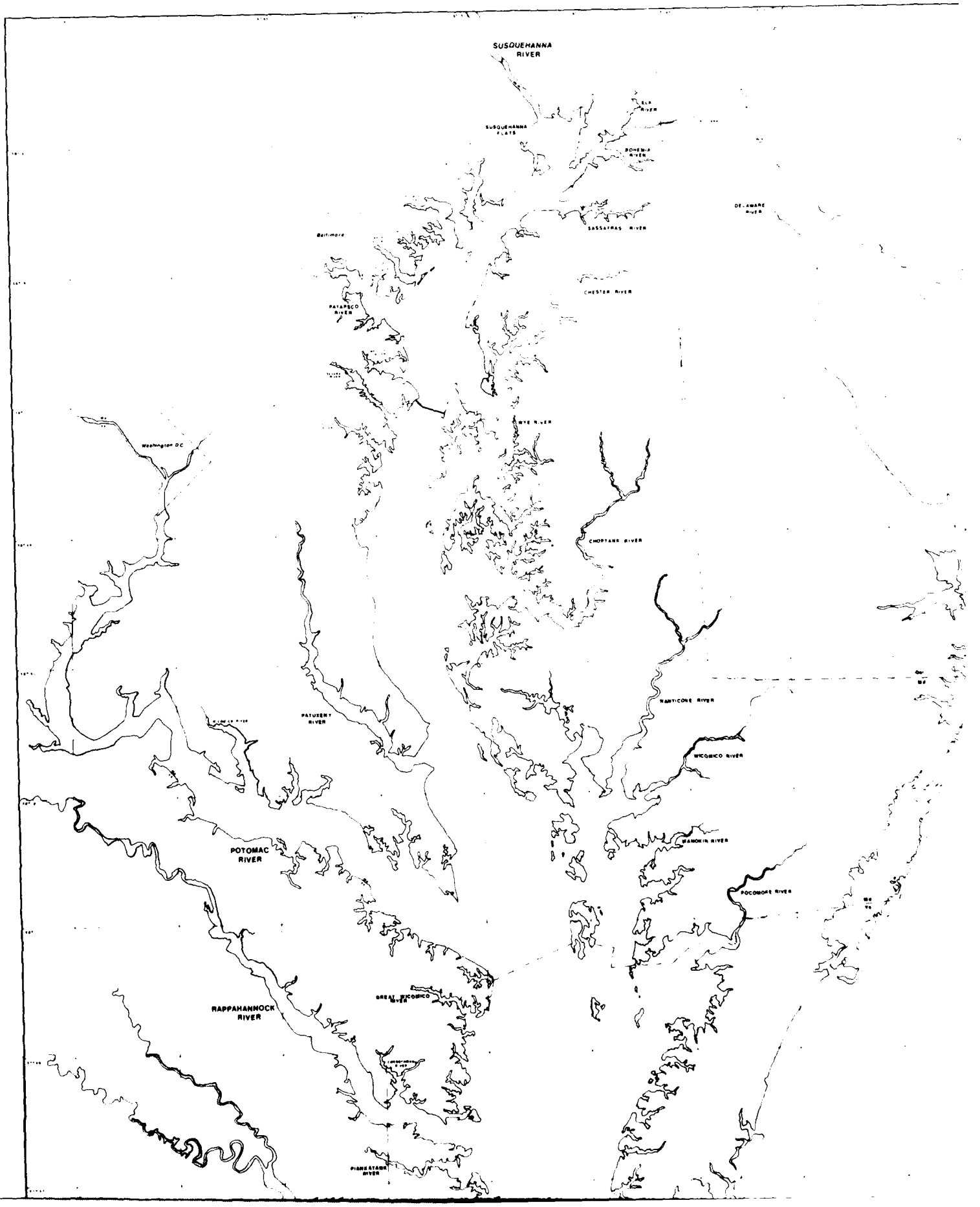

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
MAP 43 CHESAPEAKE BAY
Palaemonetes pugio - GRASS SHRIMP
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND

Plate 35


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

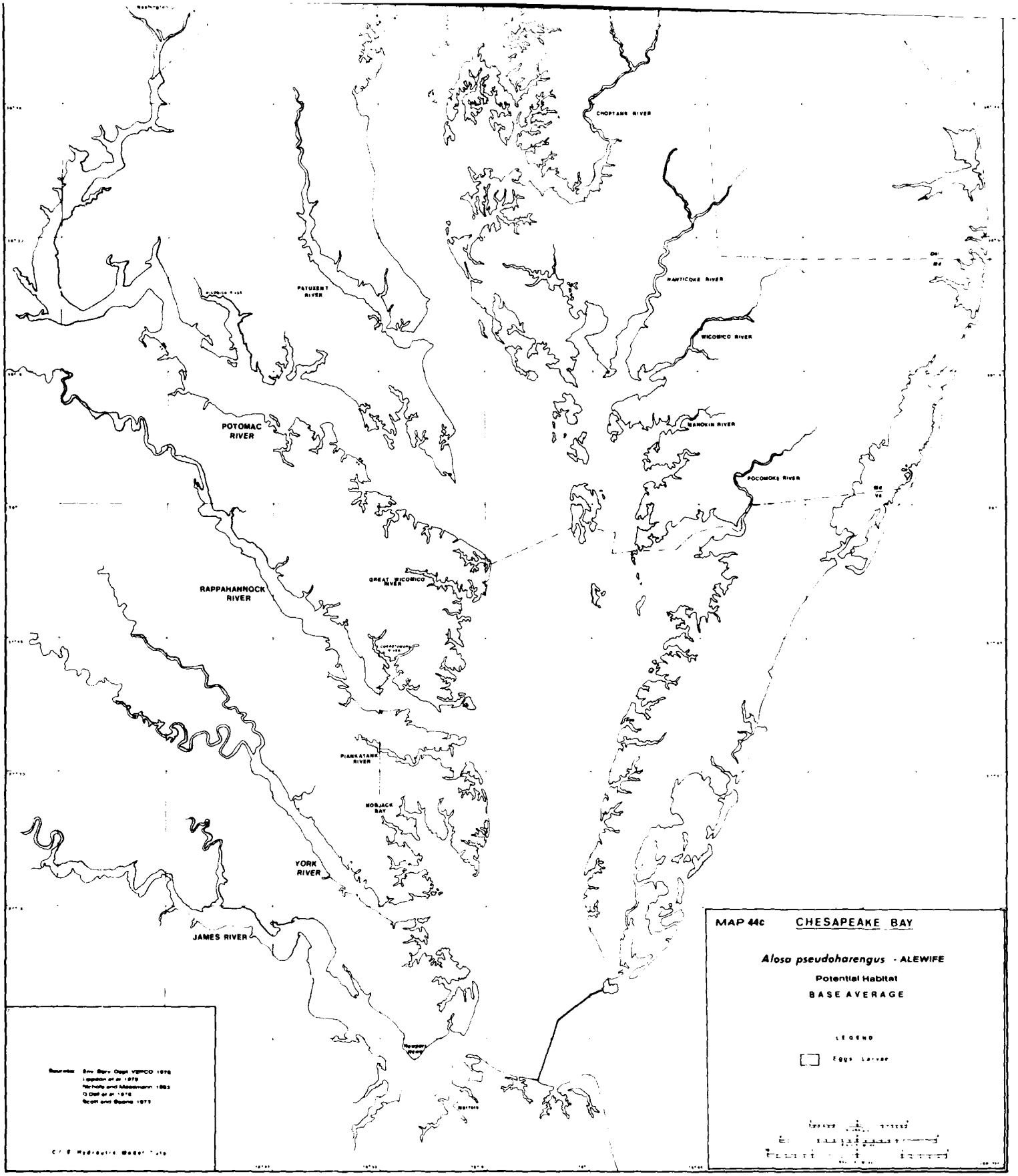
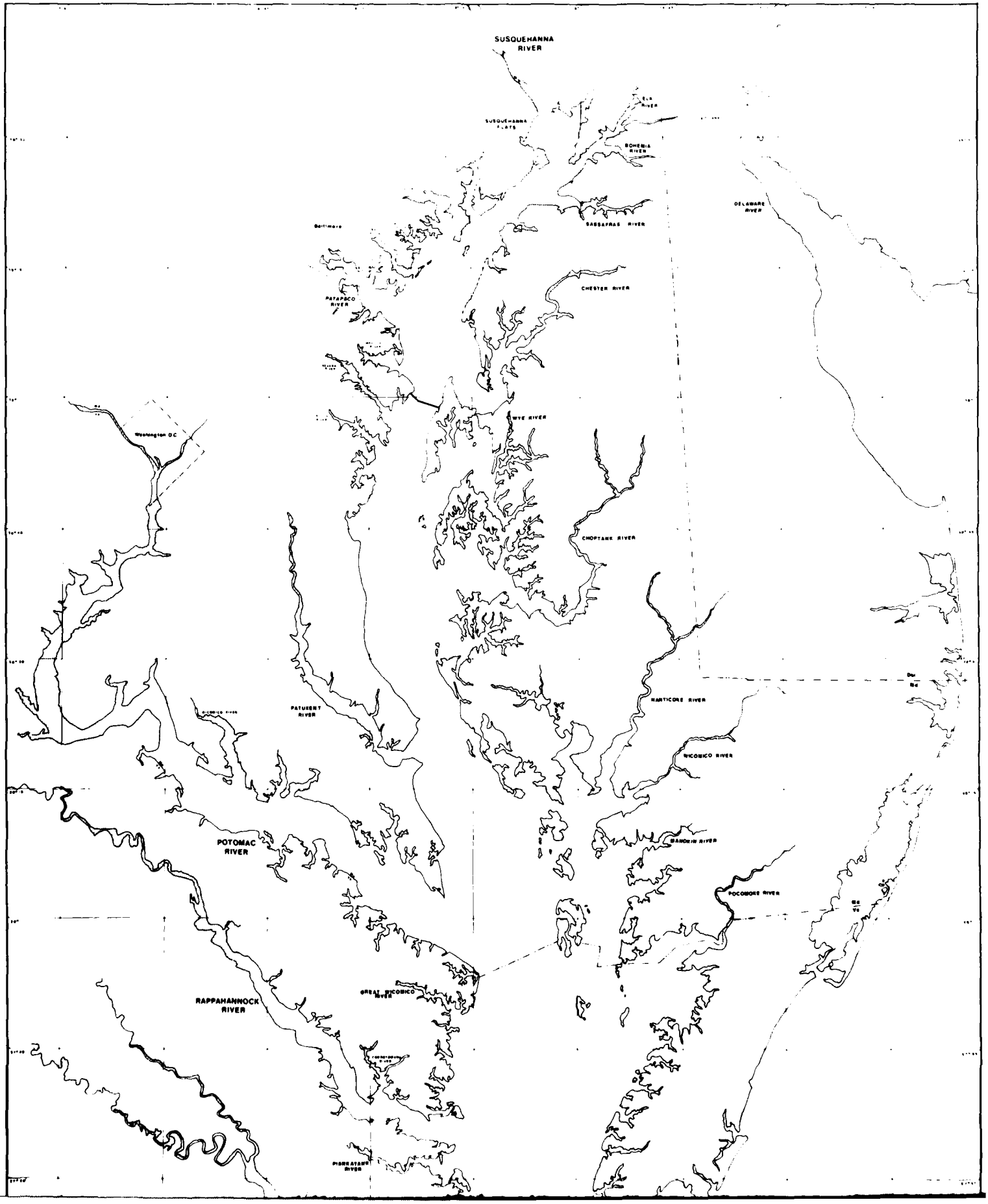

CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
MAP 44c CHESAPEAKE BAY
Alosa pseudoharengus - ALEWIFE
Potential Habitat
BASE AVERAGE
LEGEND
Eggs Larvae

Plate 36


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

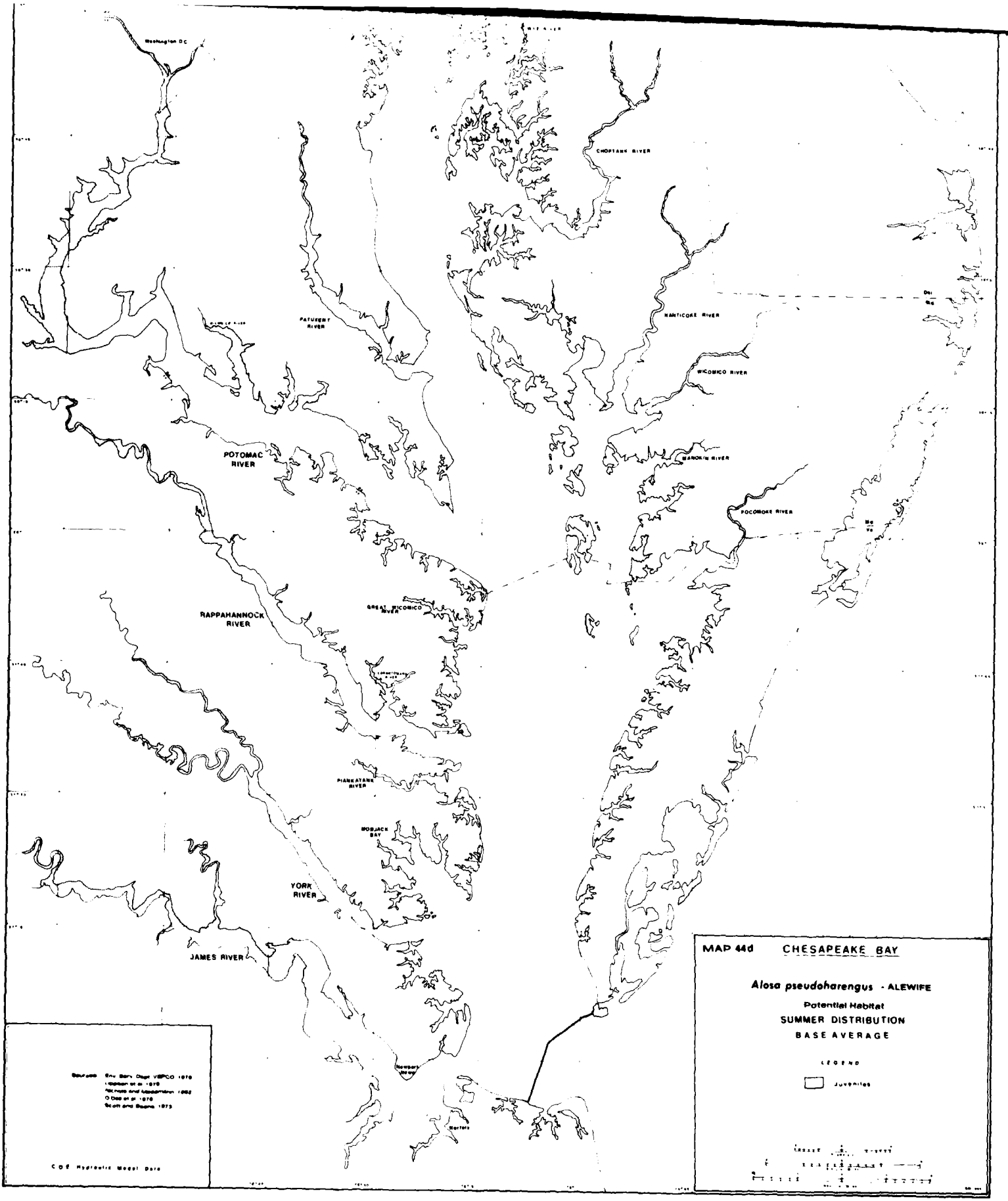
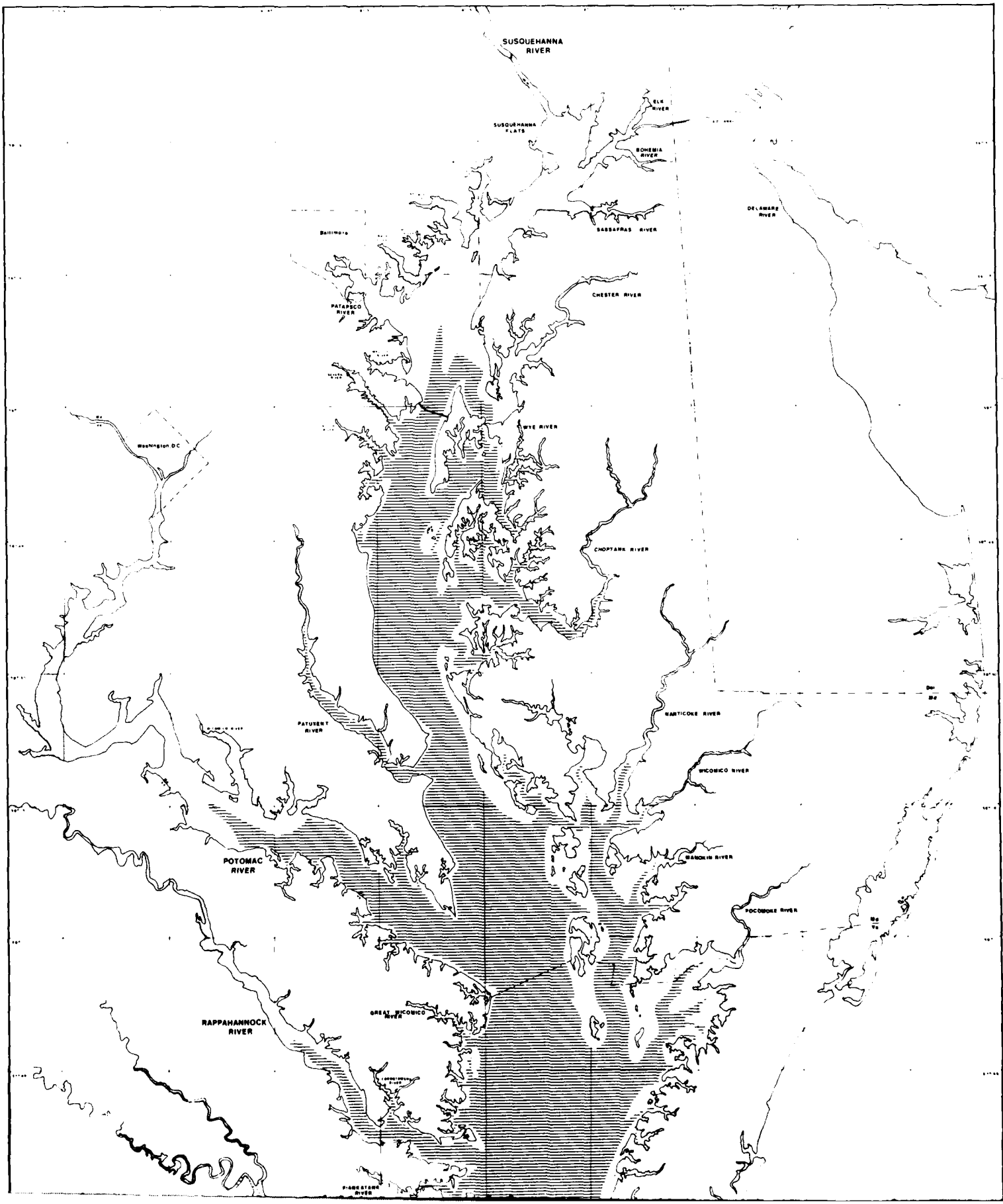

Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
Norfolk
MAP 44d CHESAPEAKE BAY
Alosa pseudoharengus - ALEWIFE
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Juveniles
COE Hydraulic Model Data

Plate 37


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WARTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

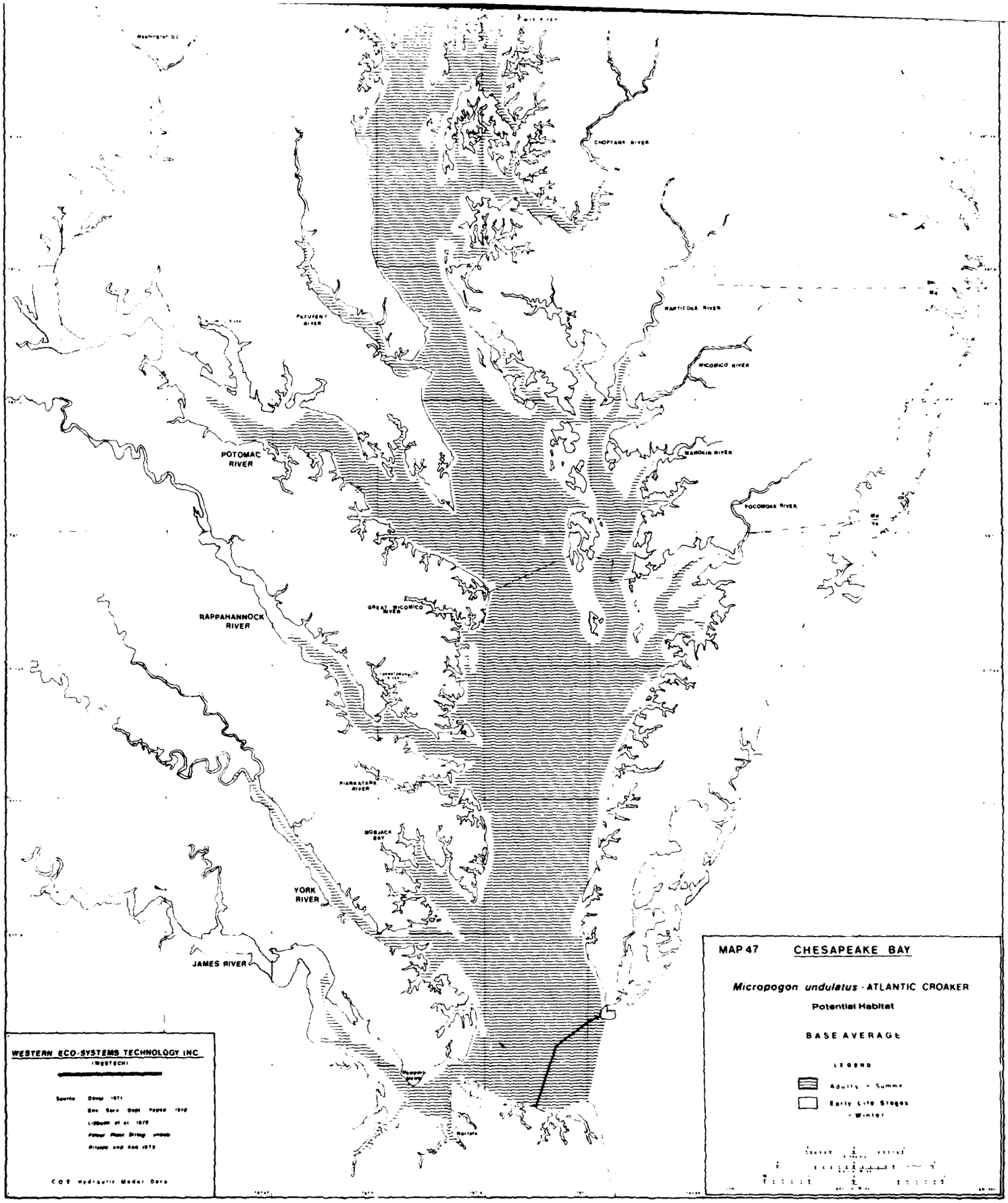
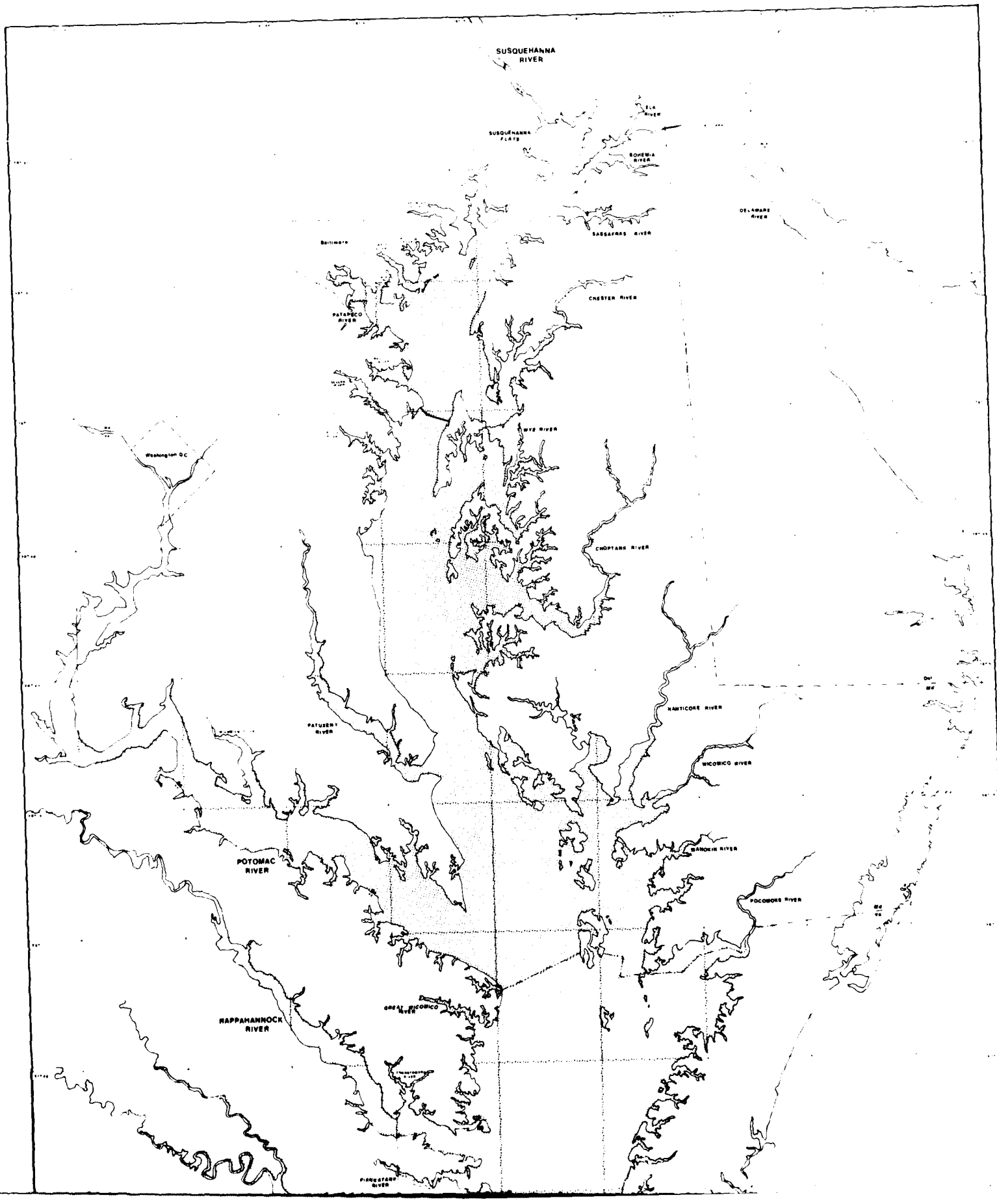

CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 47 CHESAPEAKE BAY
Micropogon undulatus - ATLANTIC CROAKER
Potential Habitat
BASE AVERAGE
LEGEND
Adults - Summer
Early Life Stages - Winter
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
COE Hydraulic Model Data

Plate 38


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE River
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
RANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE River
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

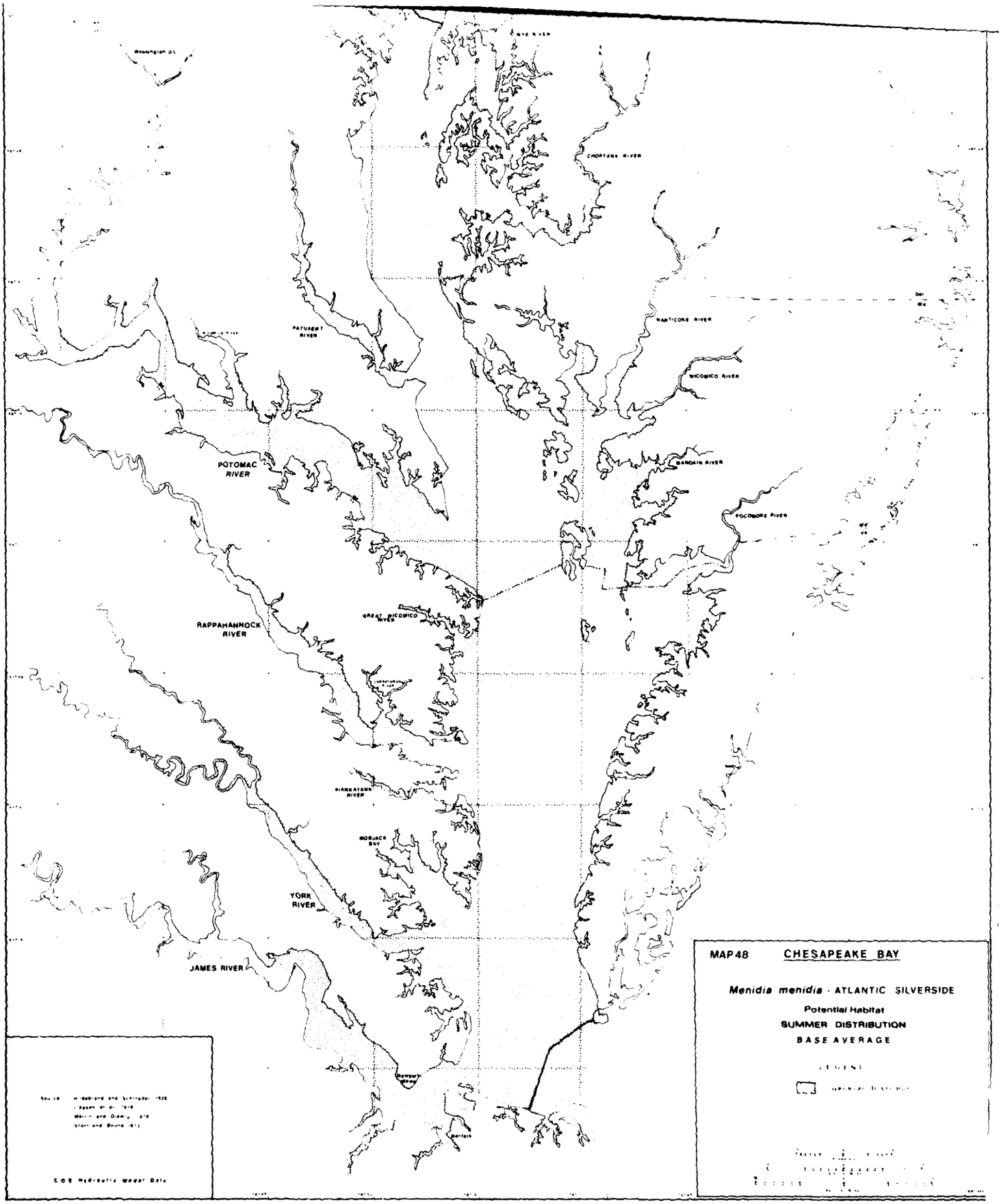
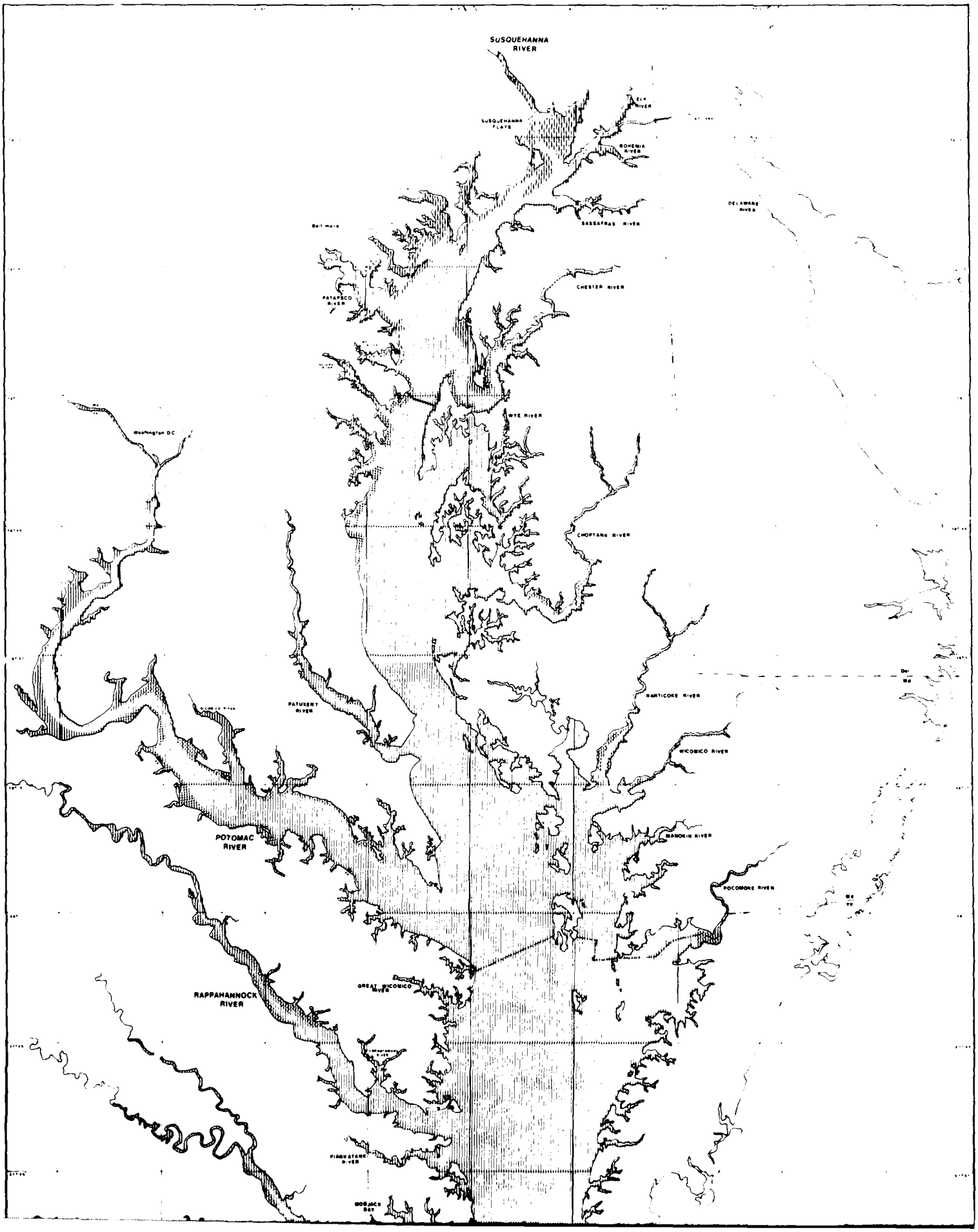
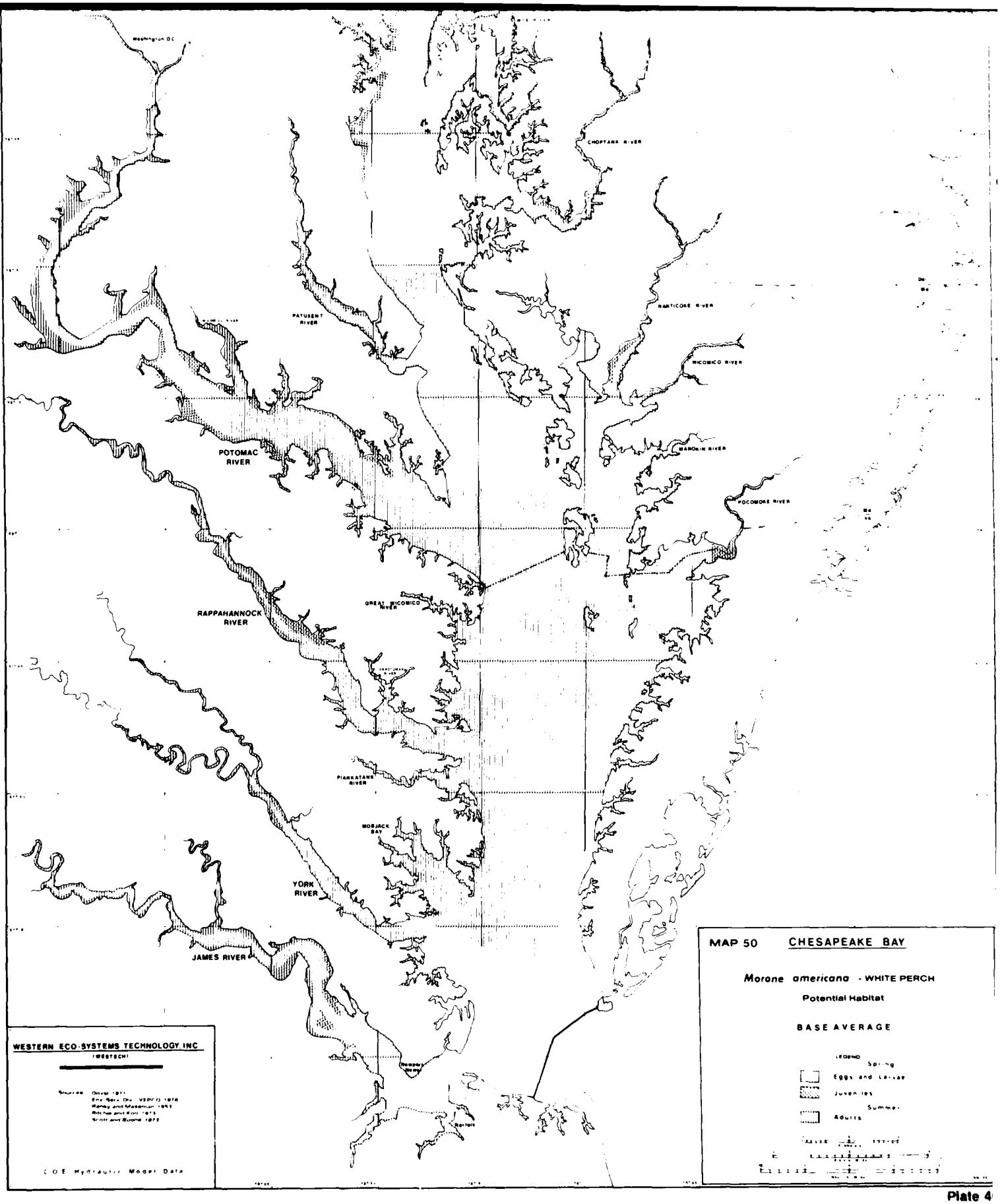

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP48 CHESAPEAKE BAY
Menidia menidia - ATLANTIC SILVERSIDE
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE

Plate 3


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Salt Water
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
MOBJACK BAY



MAP 50 CHESAPEAKE BAY

Morone americana - WHITE PERCH

Potential Habitat

BASE AVERAGE

LEGEND

Spring

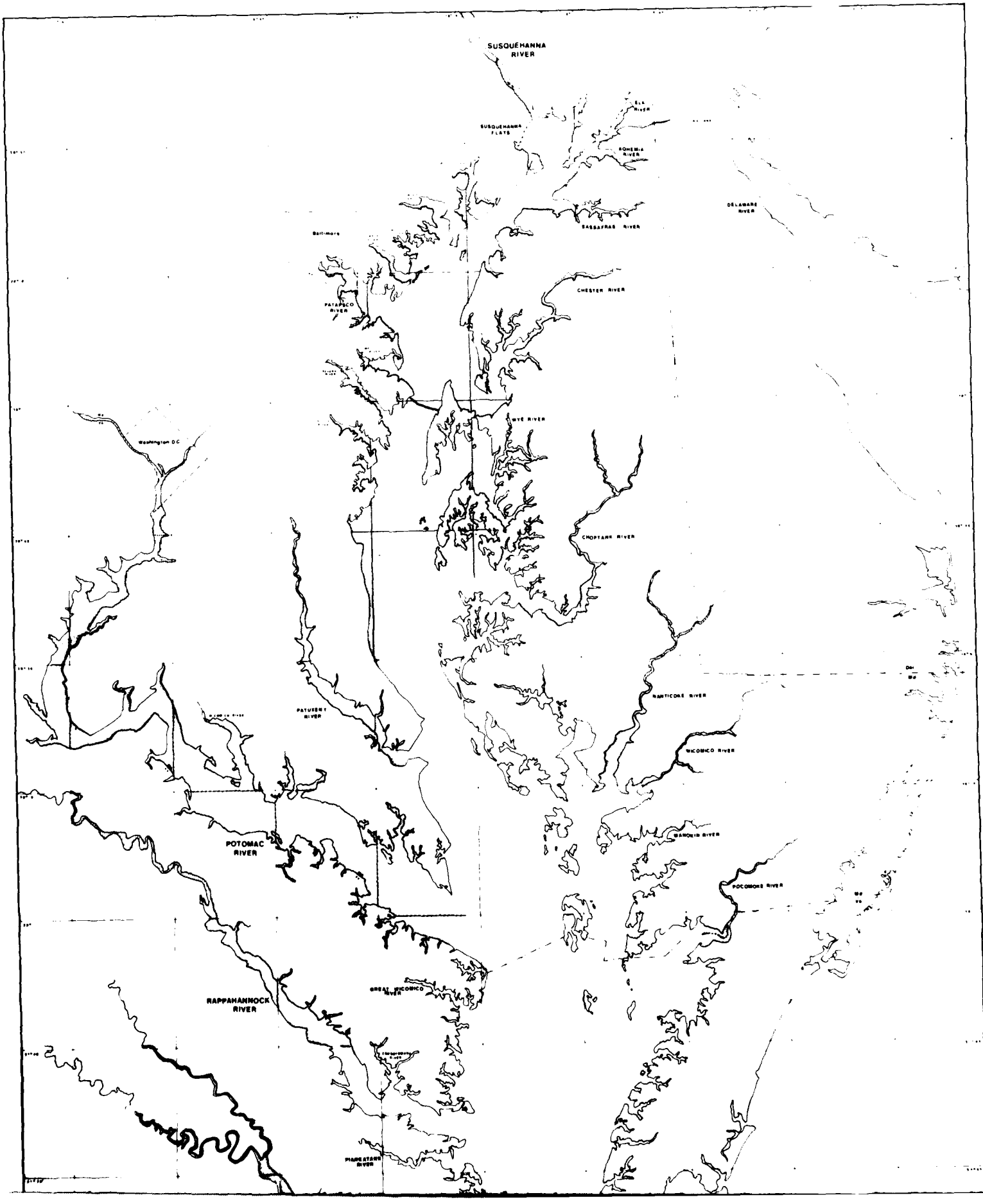
Eggs and Larvae

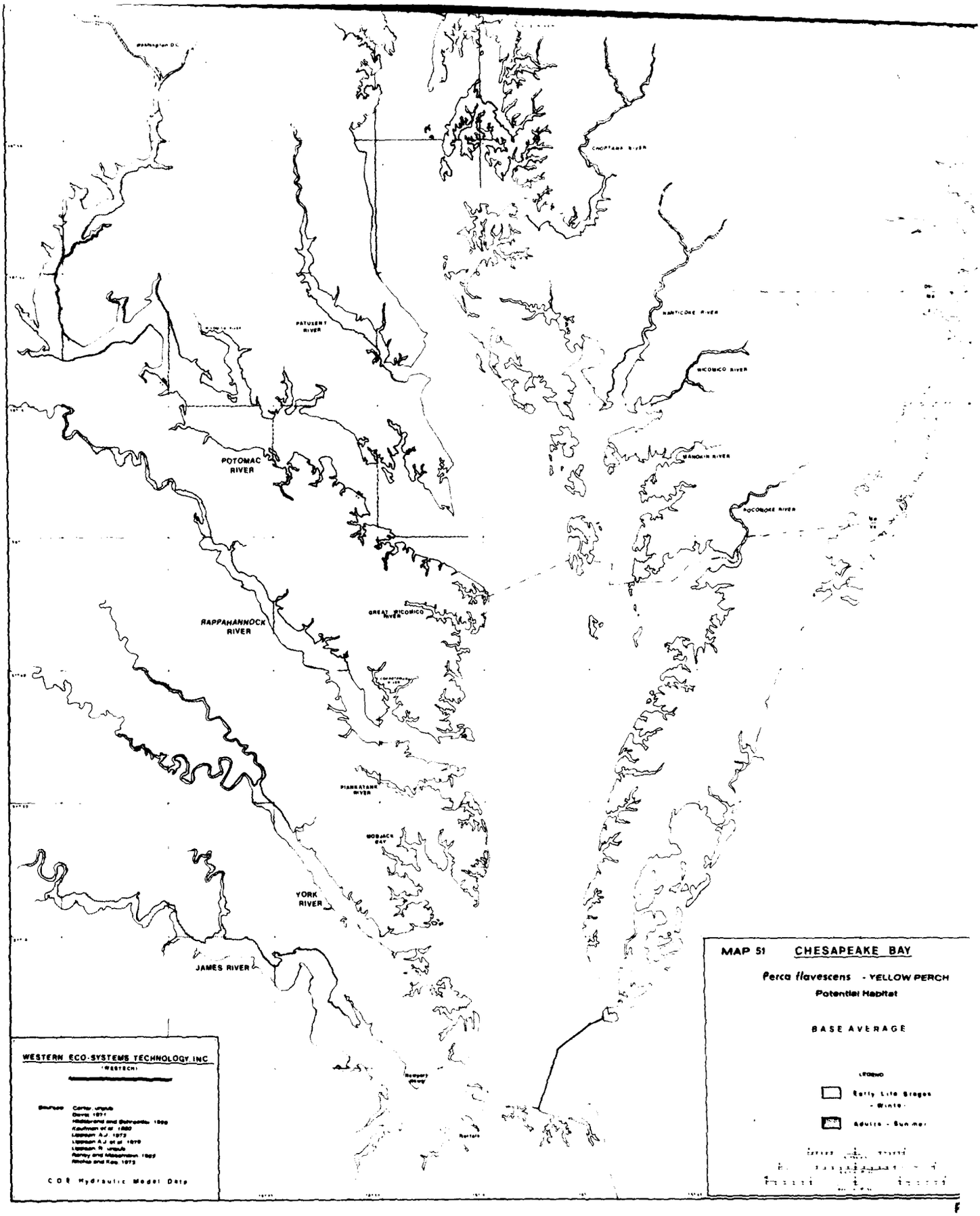
Juveniles

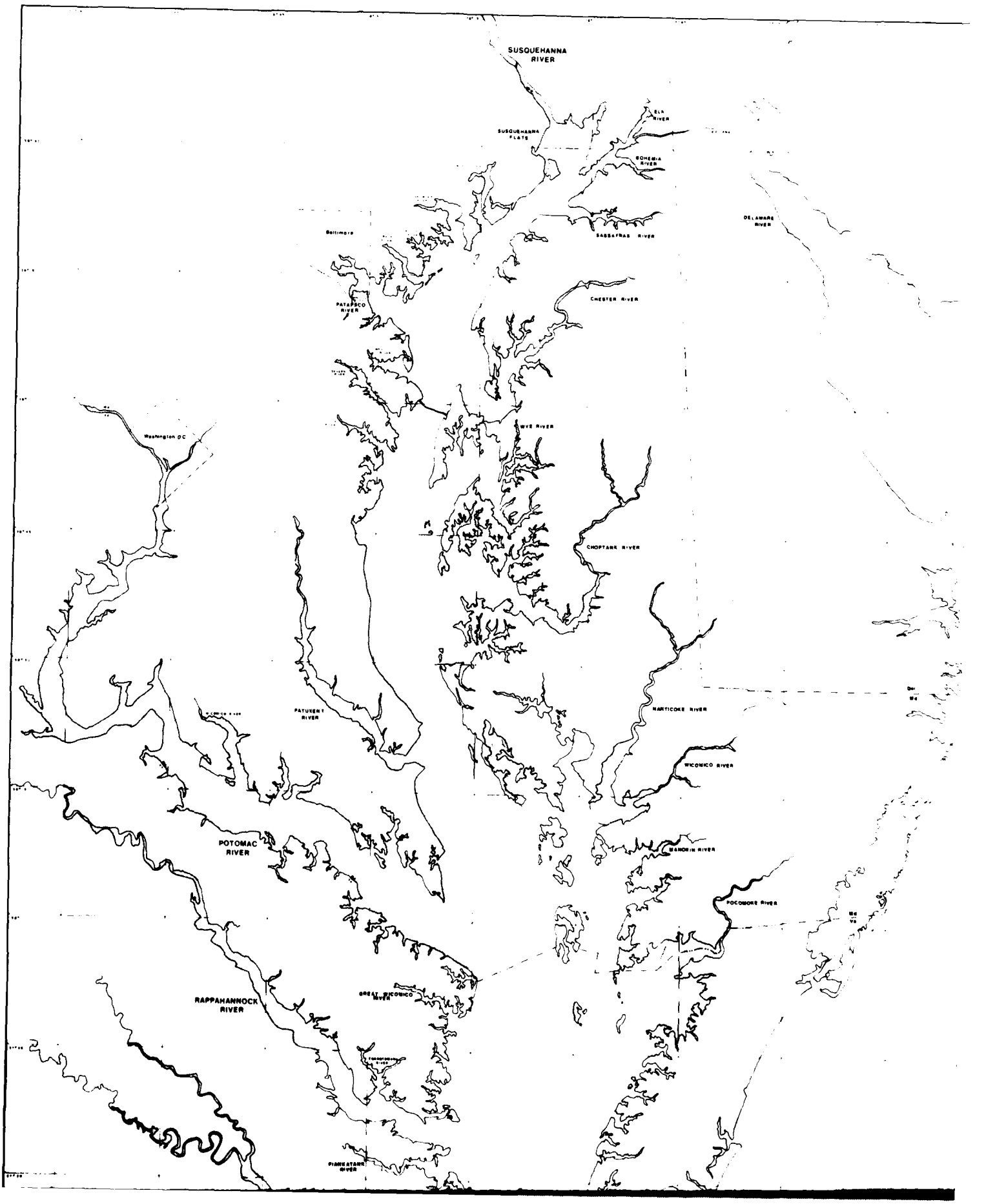
Summer

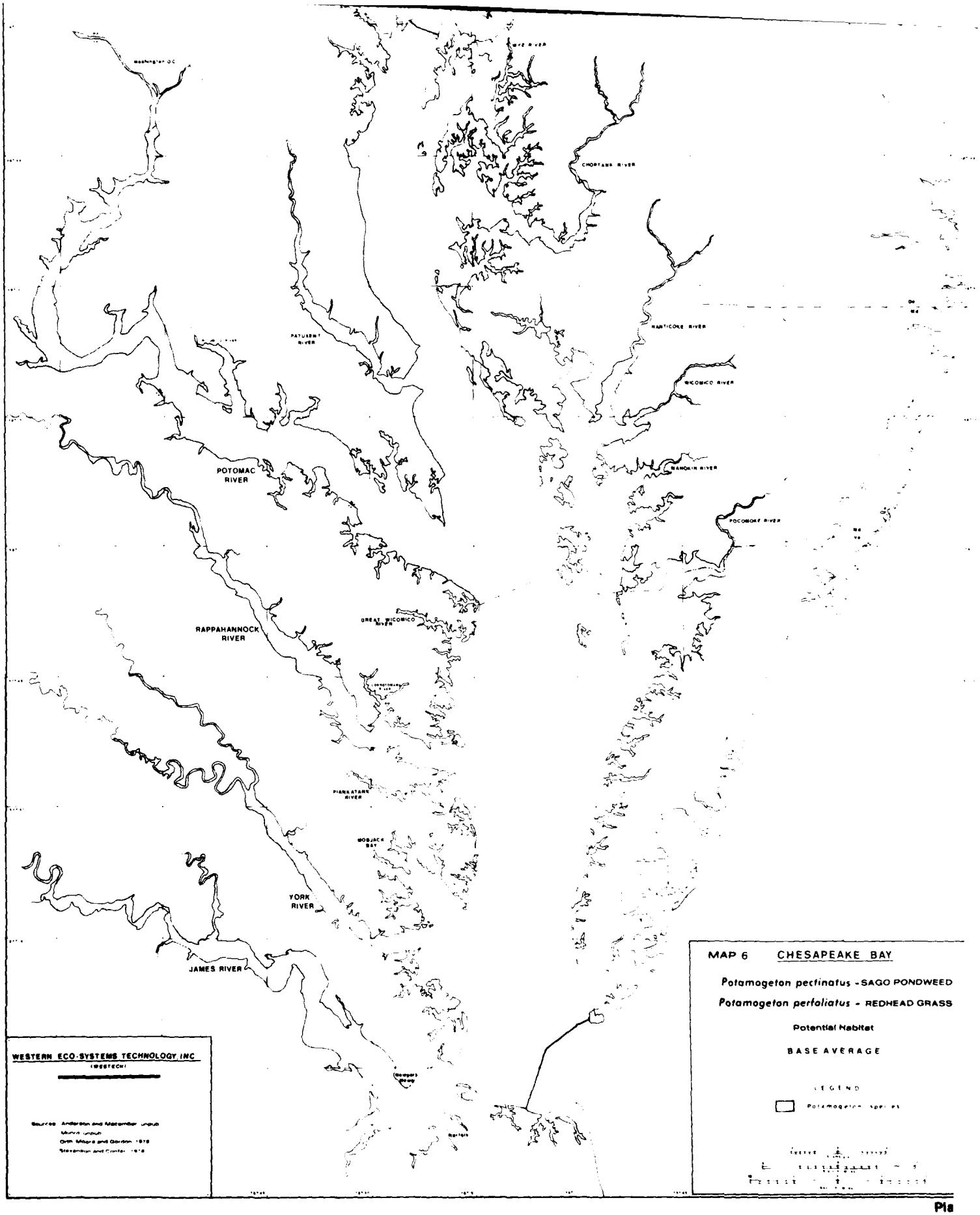
Adults

Plate 4

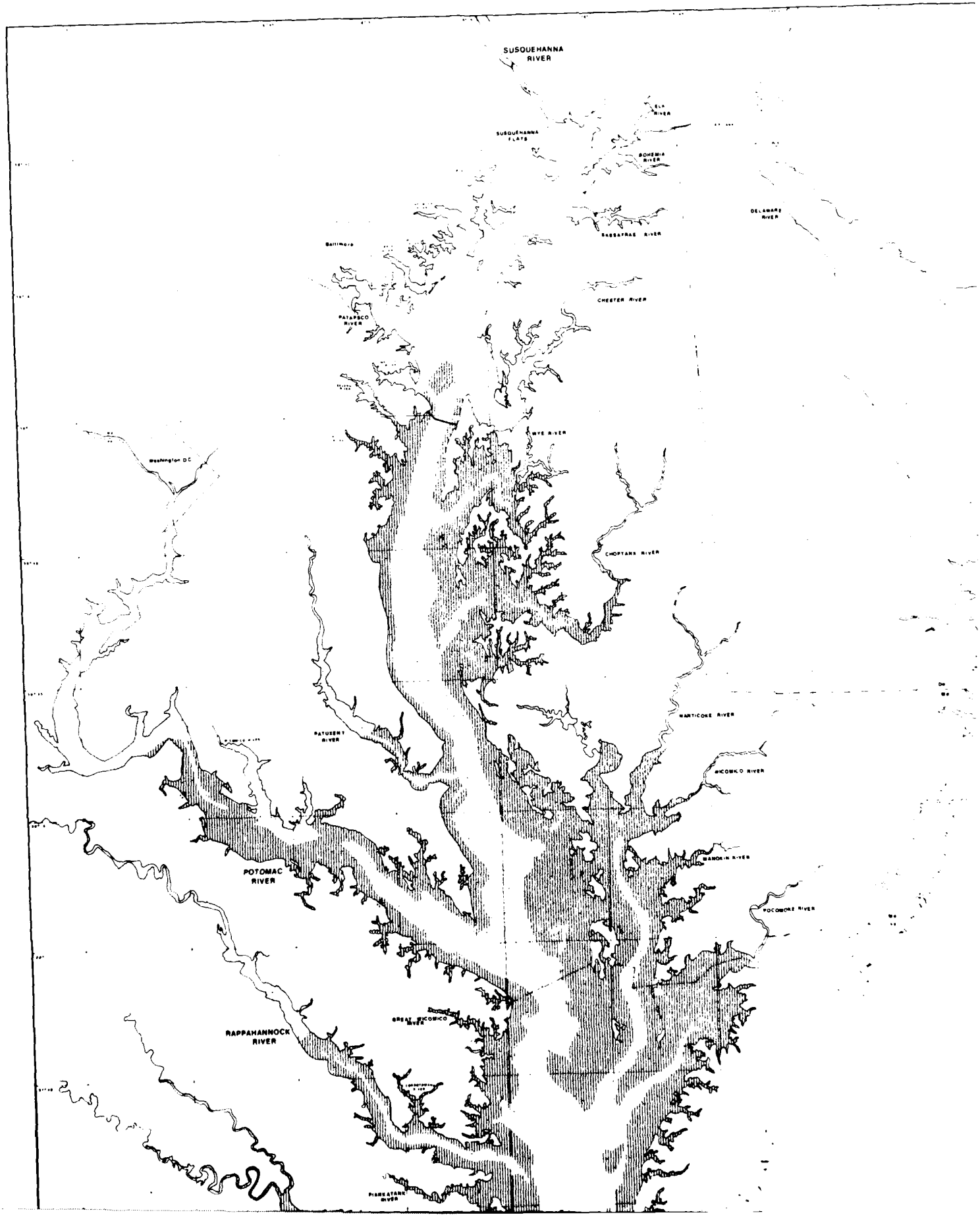

SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
NYE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
PIANKATANK RIVER
MOBJACK BAY
GREAT WICOMICO RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)
COE Hydraulic Model Data
MAP 51 CHESAPEAKE BAY
Perca flavescens - YELLOW PERCH
Potential Habitat
BASE AVERAGE
Early Life Stages - Winter
Adults - Summer


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE River
RAPPAHANNOCK RIVER
GREAT PICOMICO RIVER
PIANKATANK RIVER

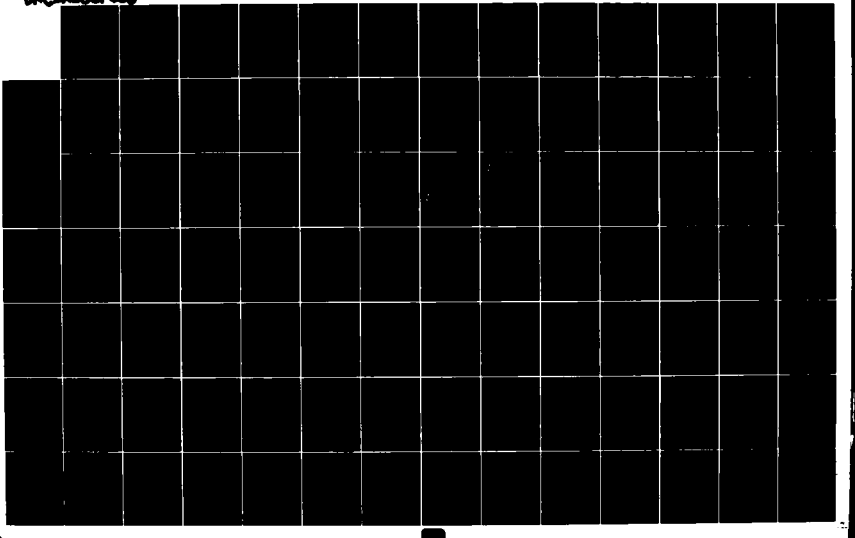

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
MAP 6 CHESAPEAKE BAY
Potamogeton pectinatus - SAGO PONDWEED
Potamogeton perfoliatus - REDHEAD GRASS
Potential Habitat
BASE AVERAGE
LEGEND

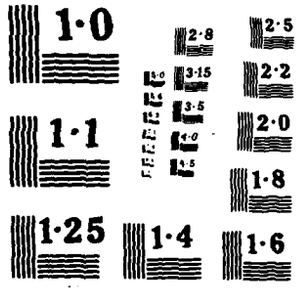
Pla


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
CHESAPEAKE RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

AD A16 413 CHESAPEAKE BAY LOW FRESHWATER INFLOW STUDY APPENDIX F MAP FOLIO(U) CORPS OF ENGINEERS BALTIMORE MD BALTIMORE DISTRICT SEP 84 CHB-84-L-APP-F 2/3

UNCLASSIFIED F/G 8/1 ML

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3·5
4·0
4·5

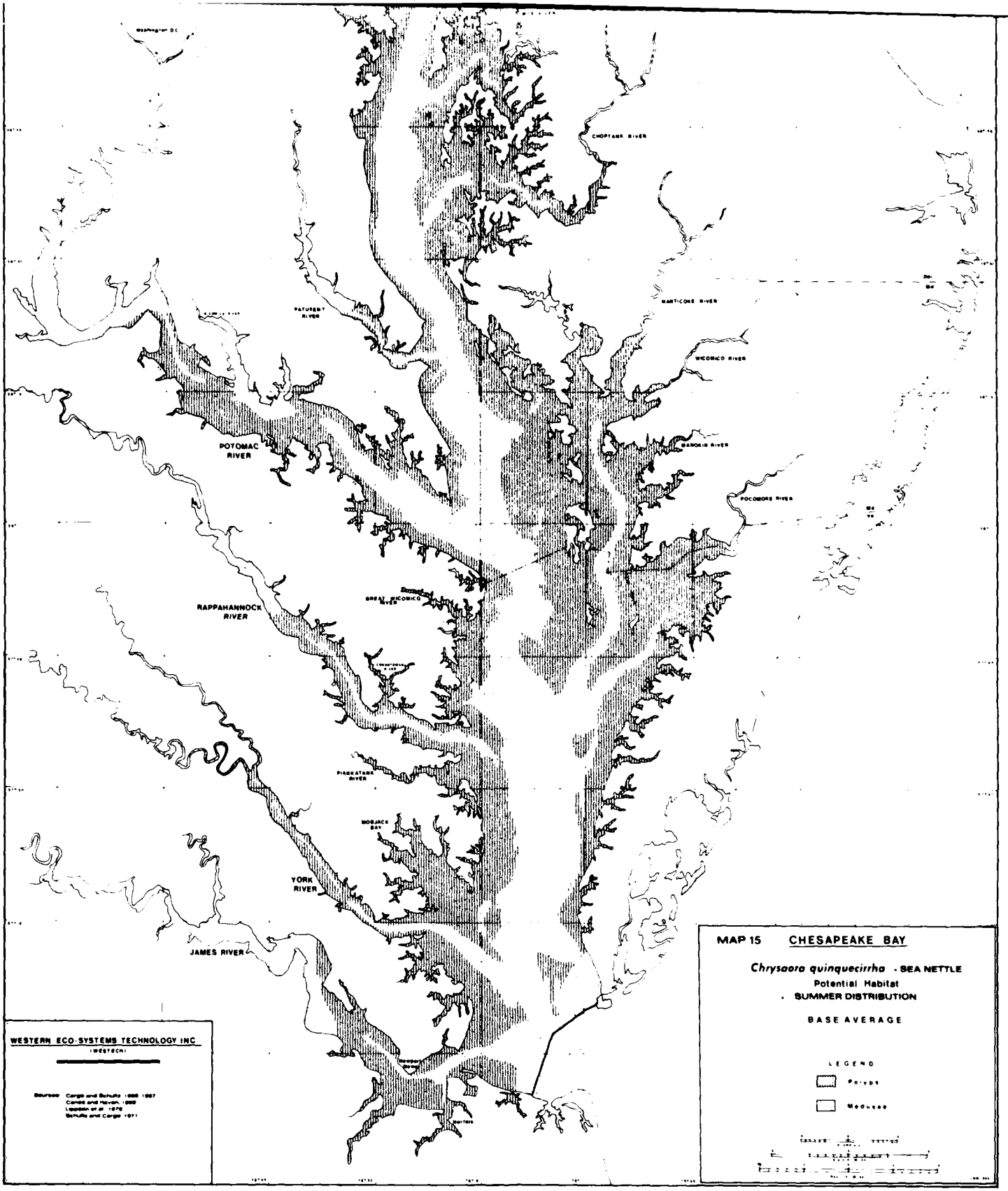
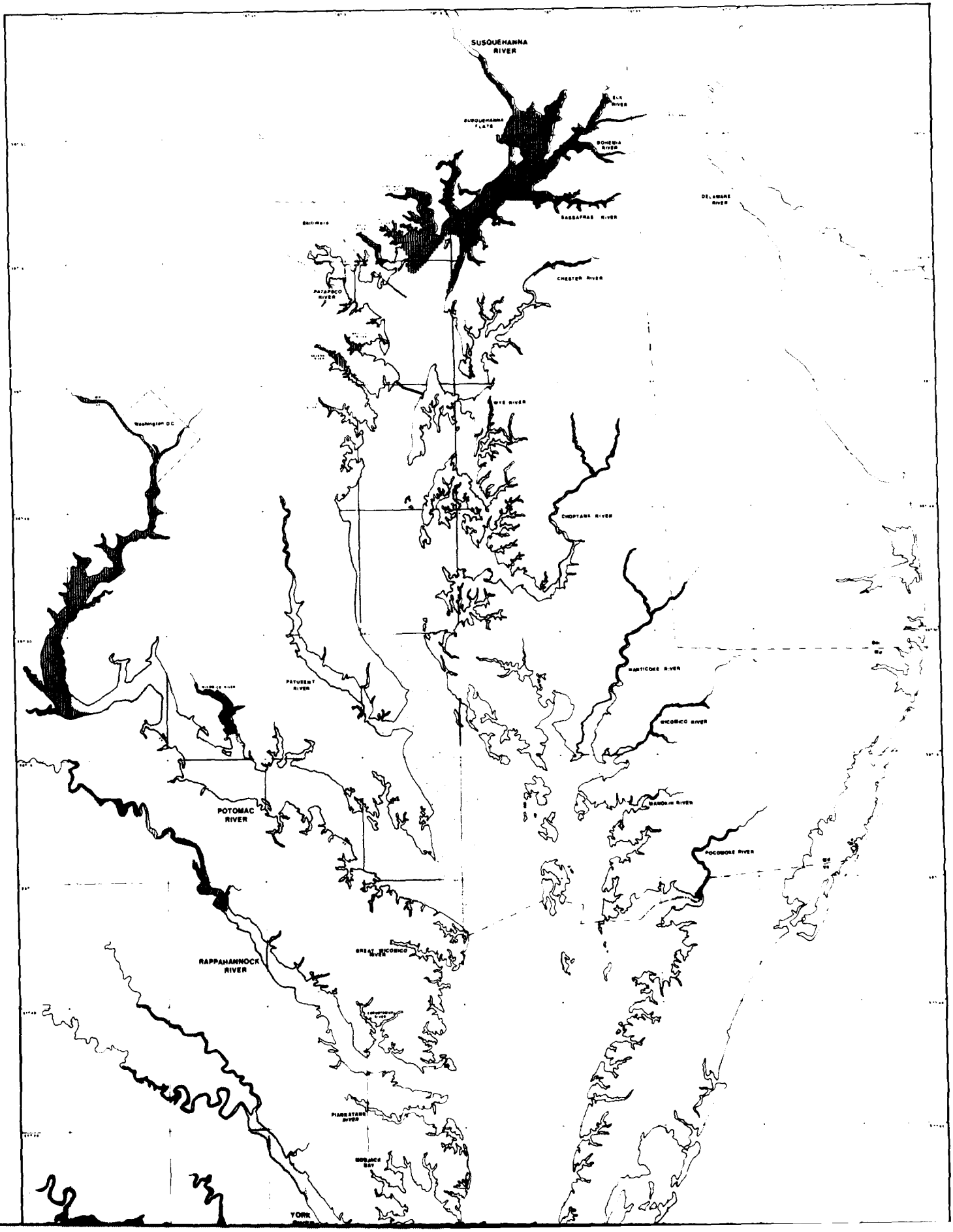

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
MAP 15 CHESAPEAKE BAY
Chrysaora quinquecirrha - SEA NETTLE
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Polyps
Medusae

Plate 43


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
MANOKIN RIVER
WICOMICO RIVER
POTOMAC RIVER
ROCKHOLD RIVER
RAPPAHANNOCK RIVER
YORK

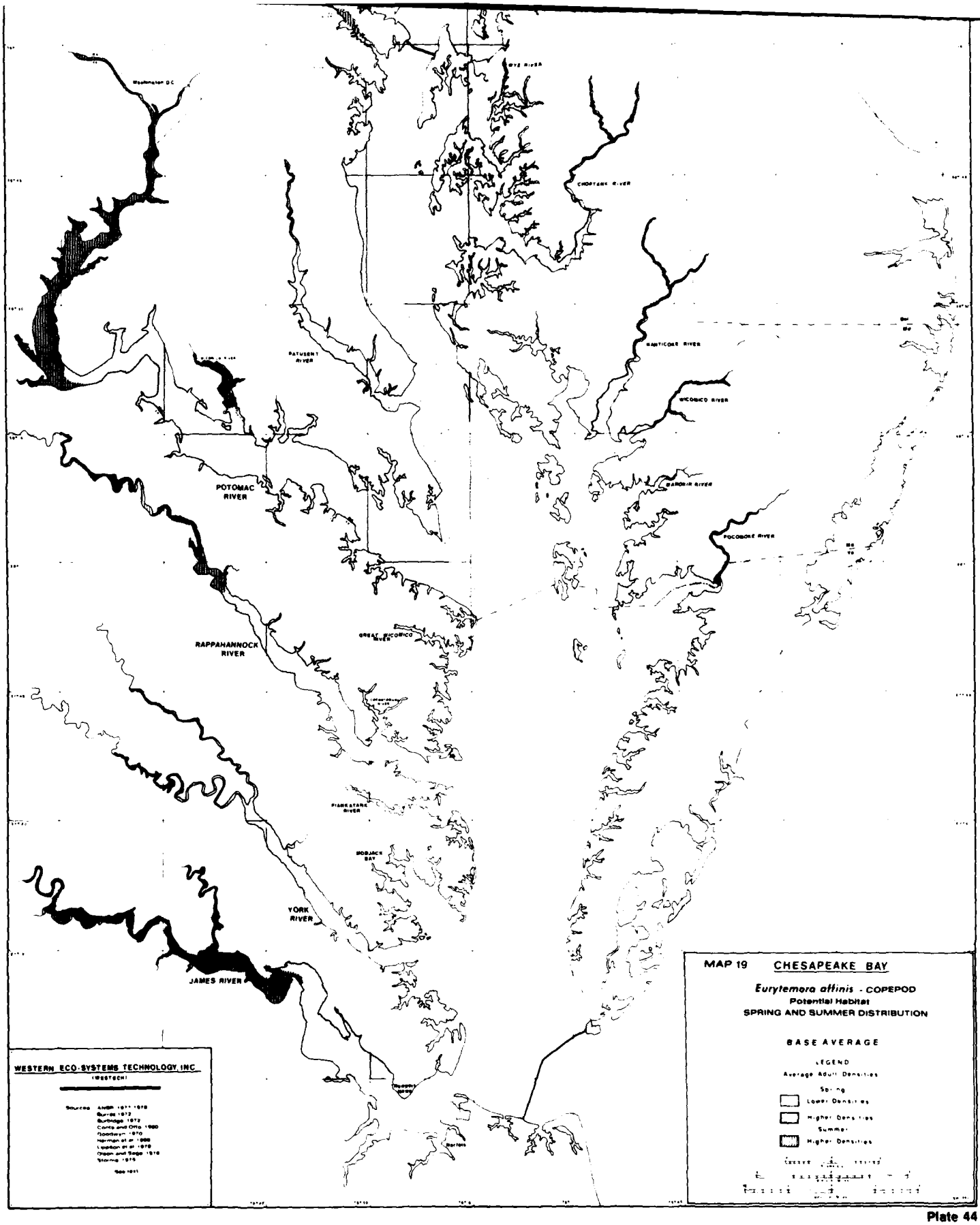
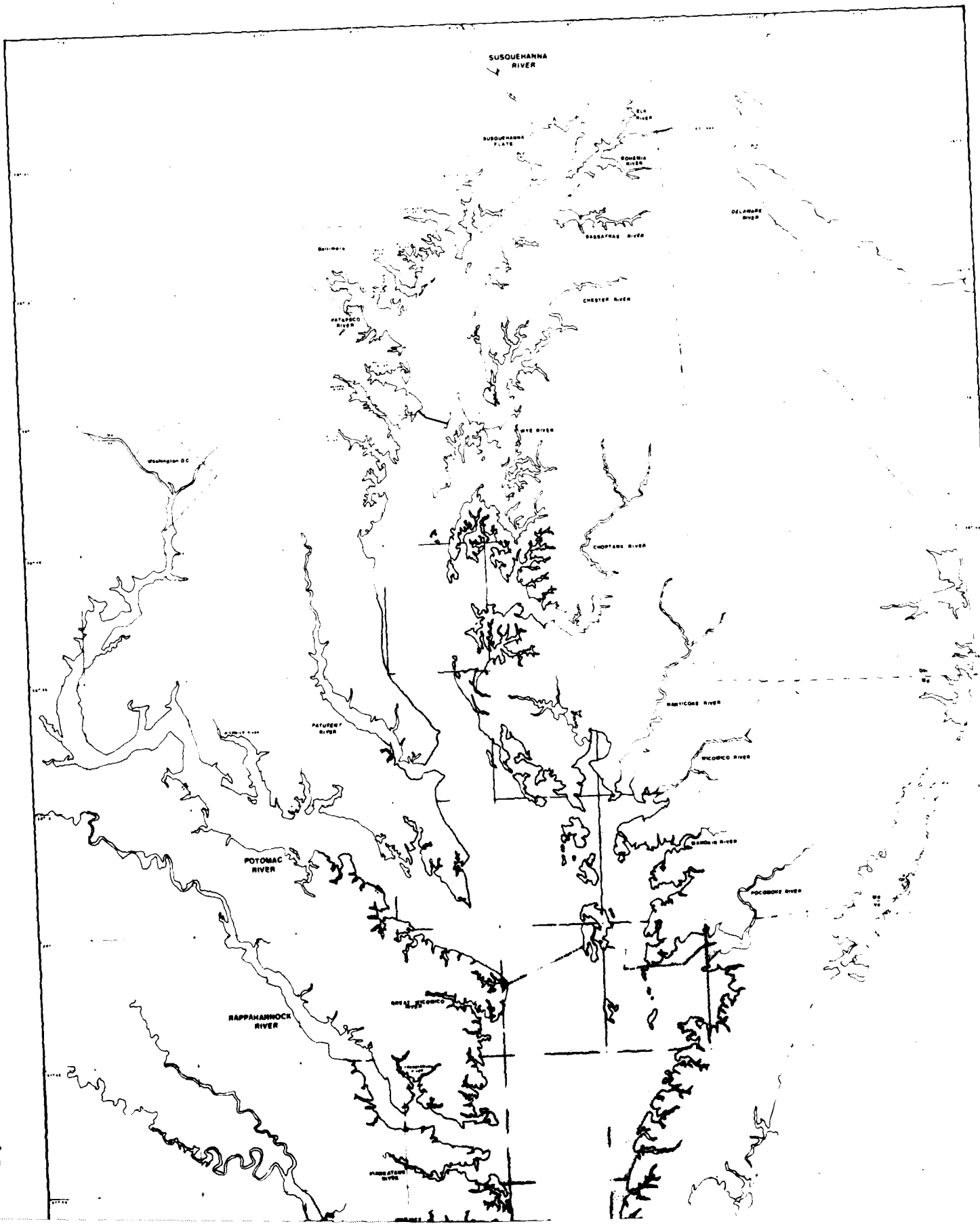

Washington DC
PATUXENT RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
CHOPTANK RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 19 CHESAPEAKE BAY
Eurytemora affinis - COPEPOD
Potential Habitat
SPRING AND SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Average Adult Densities
Spring
Lower Densities
Higher Densities
Summer
Higher Densities
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)

Plate 44


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
PATUXENT RIVER
CHOPTANK RIVER
WICOMICO RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
POCOMOKE RIVER

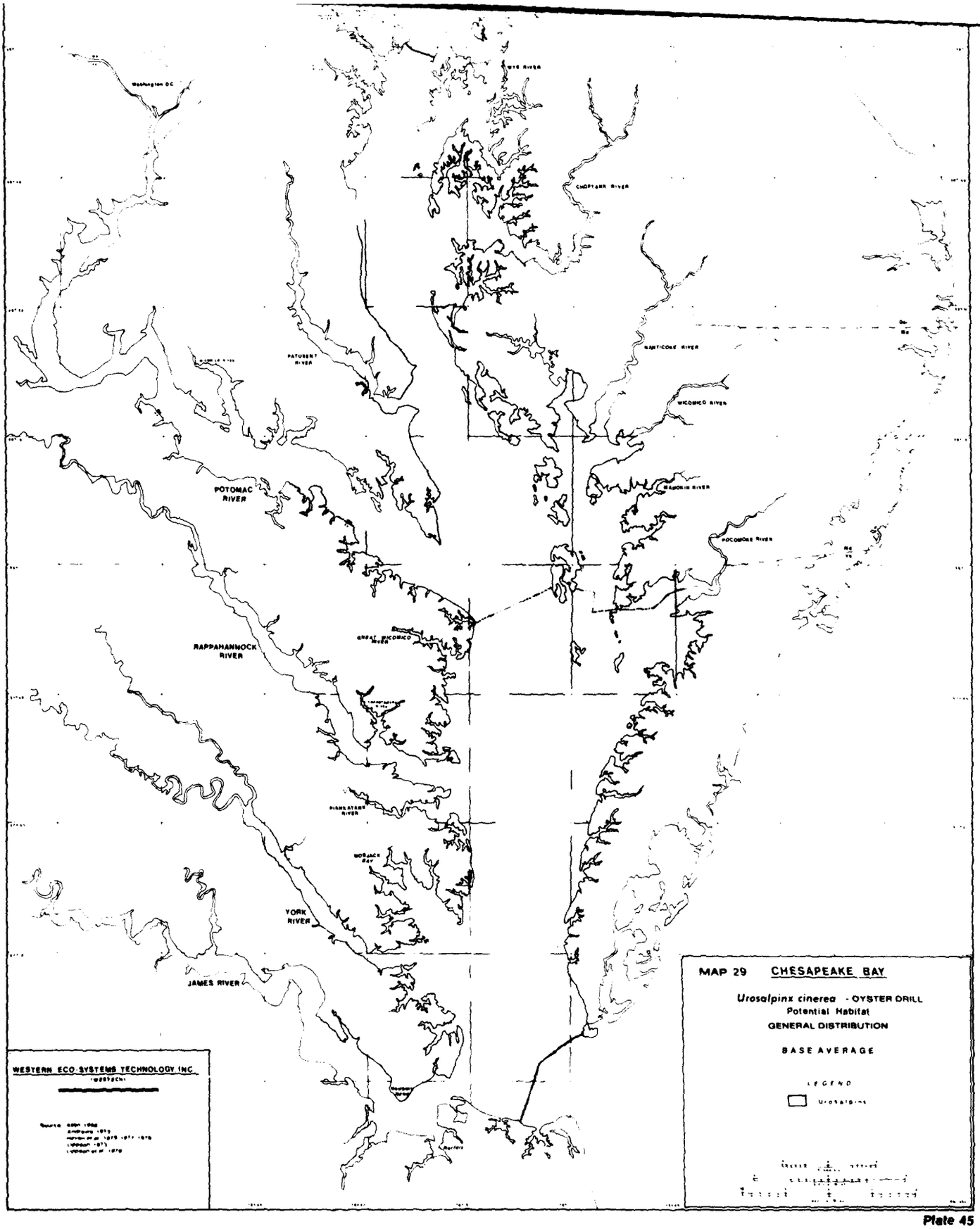
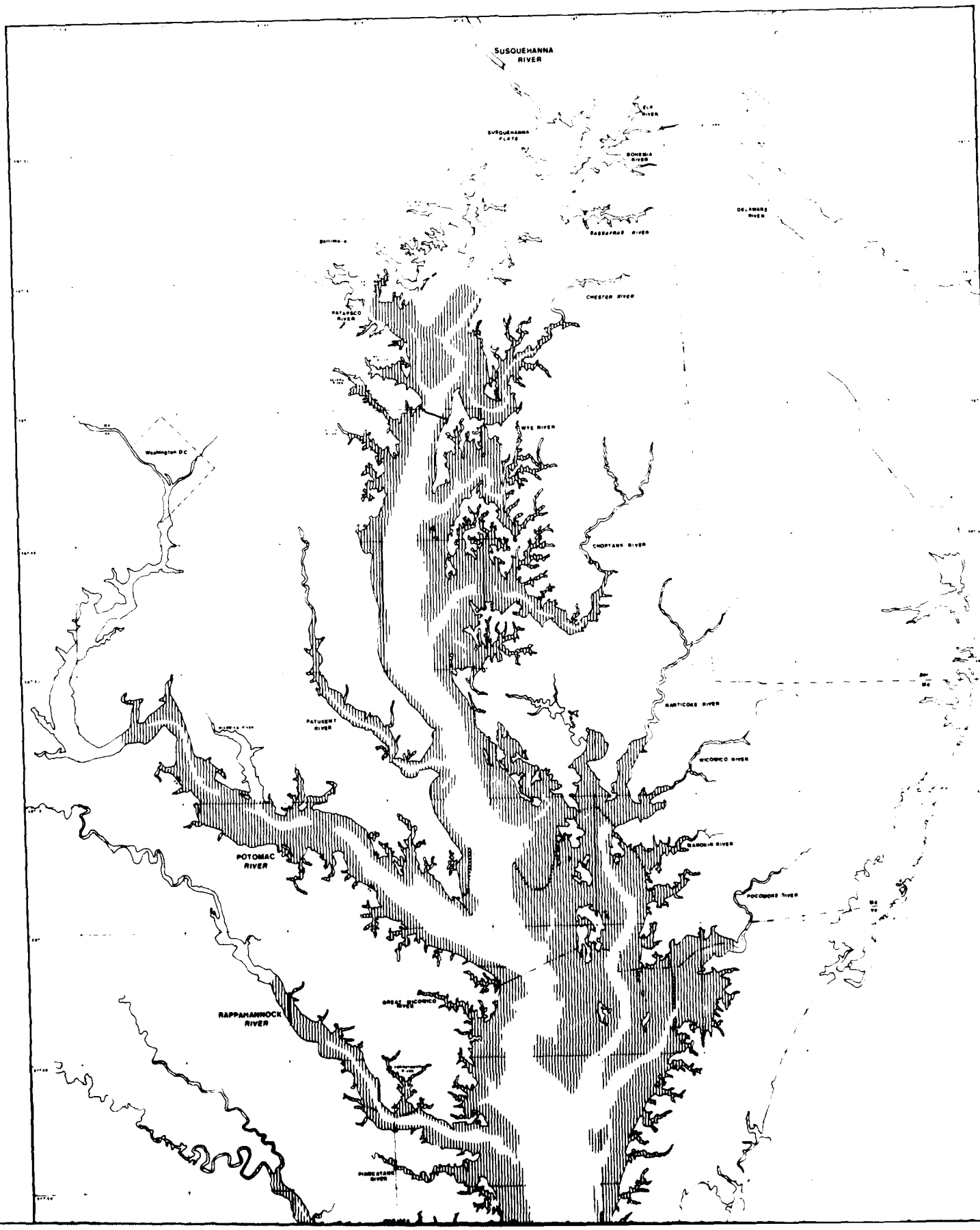

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE River
CHOPTANK RIVER
MAP 29 CHESAPEAKE BAY
Urosalpinx cinerea - OYSTER DRILL
Potential Habitat
GENERAL DISTRIBUTION
BASE AVERAGE
LEGEND
WESTERN ECO-SYSTEMS TECHNOLOGY INC.

Plate 45


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
POTOMAC RIVER
WICOMICO RIVER
POCOMOKE River

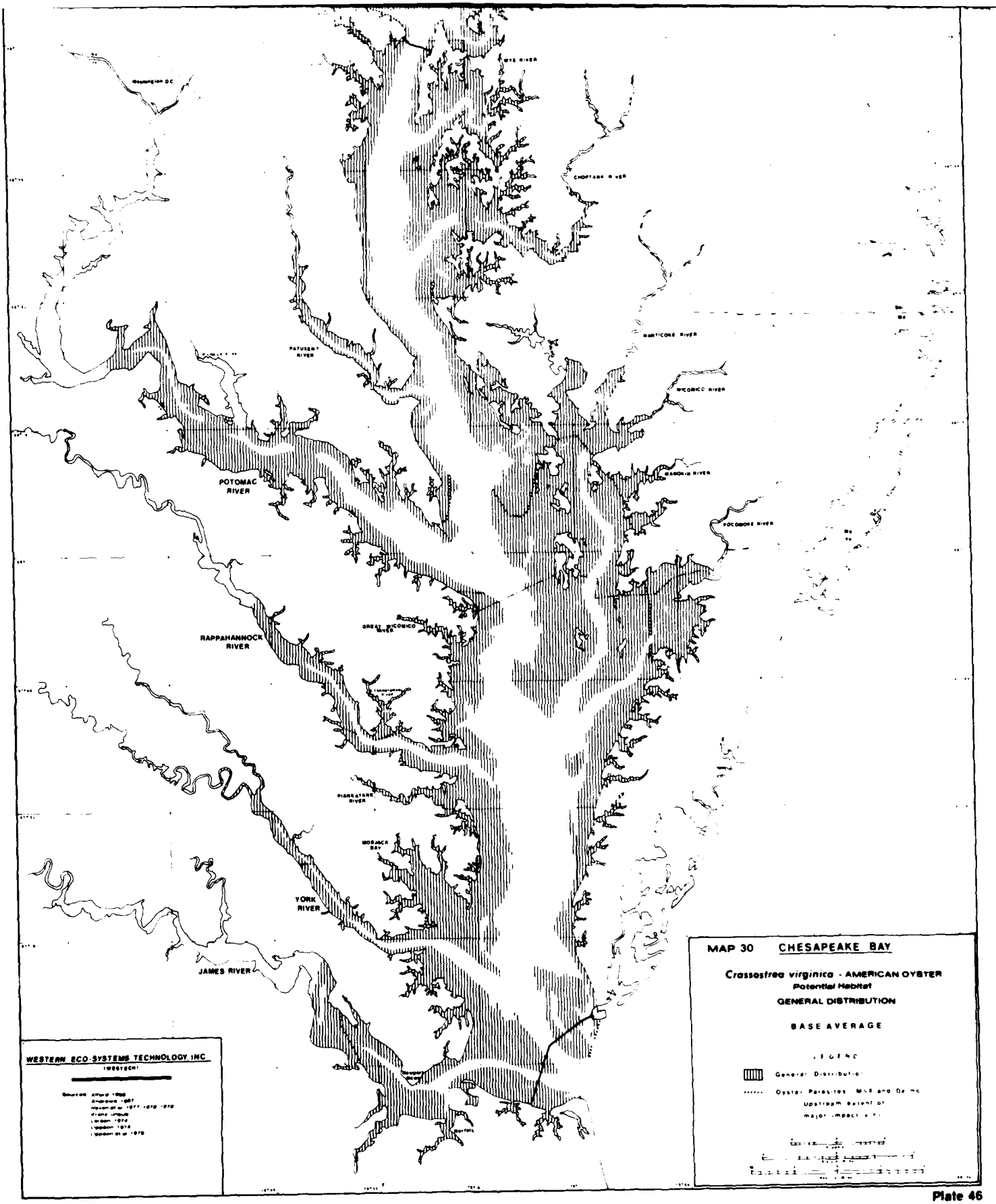
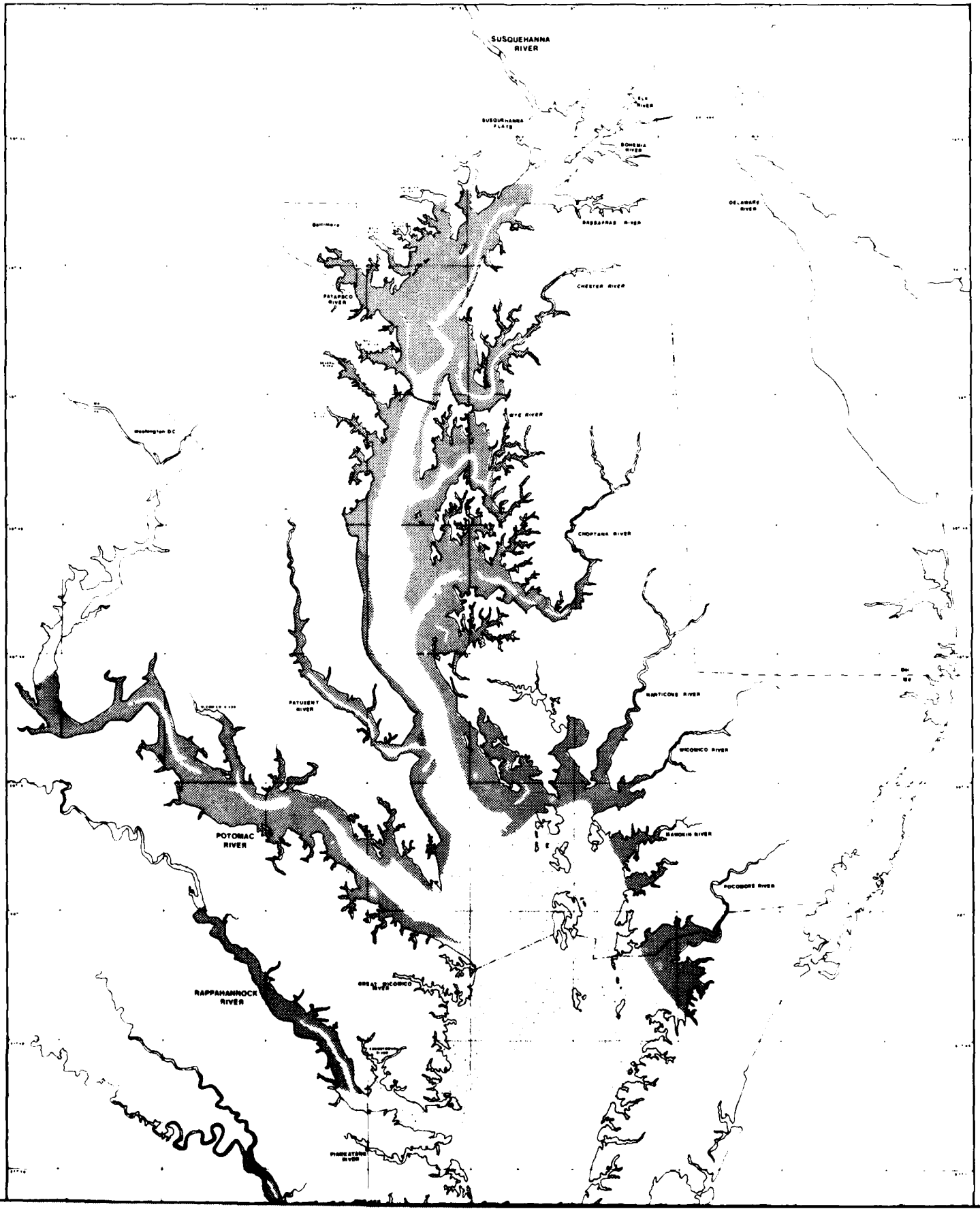

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
MATTAPONI RIVER
PIANKATANK RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
MAP 30 CHESAPEAKE BAY
Crassostrea virginica - AMERICAN OYSTER
Potential Habitat
GENERAL DISTRIBUTION
BASE AVERAGE
LEGEND
General Distribution

Plate 46


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
MANOKIN RIVER
WICOMICO RIVER
POTOMAC RIVER
ANNEMESSEX RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

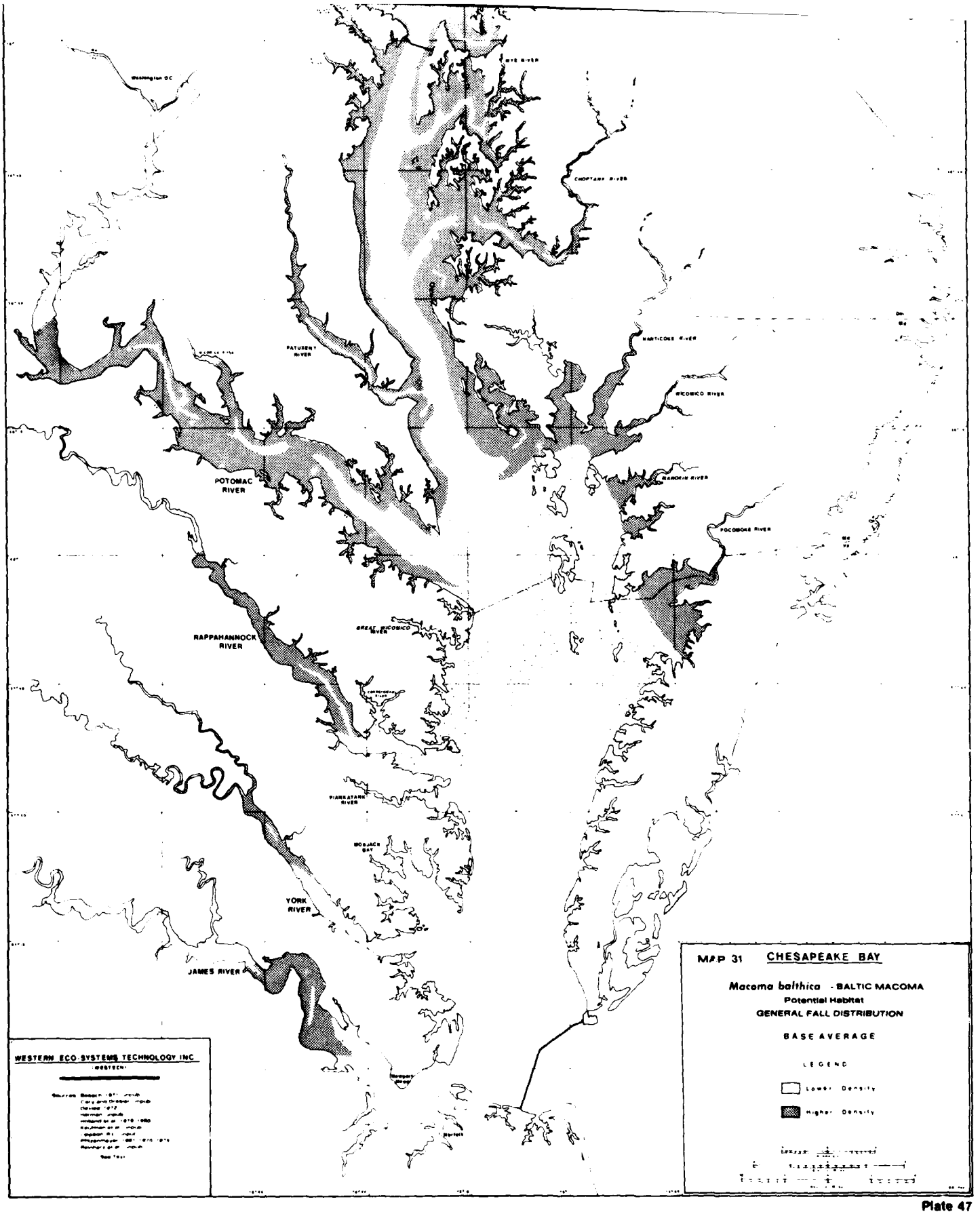
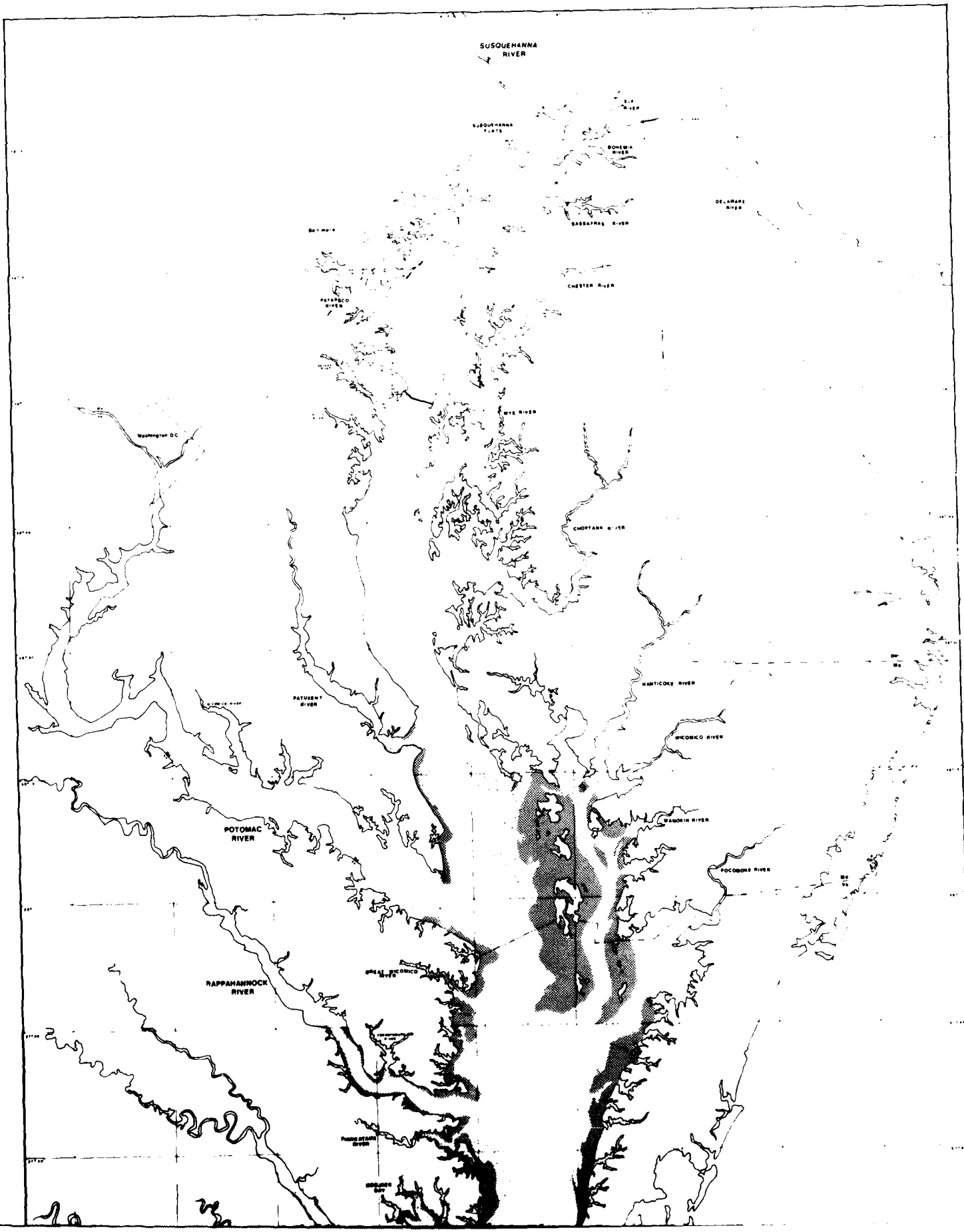

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
PIANKATANK RIVER
MOBJACK BAY
MAP 31 CHESAPEAKE BAY
Macoma balthica - BALTIC MACOMA
Potential Habitat
GENERAL FALL DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Density
Higher Density
WESTERN ECO SYSTEMS TECHNOLOGY INC.

Plate 47


SUSQUEHANNA RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER

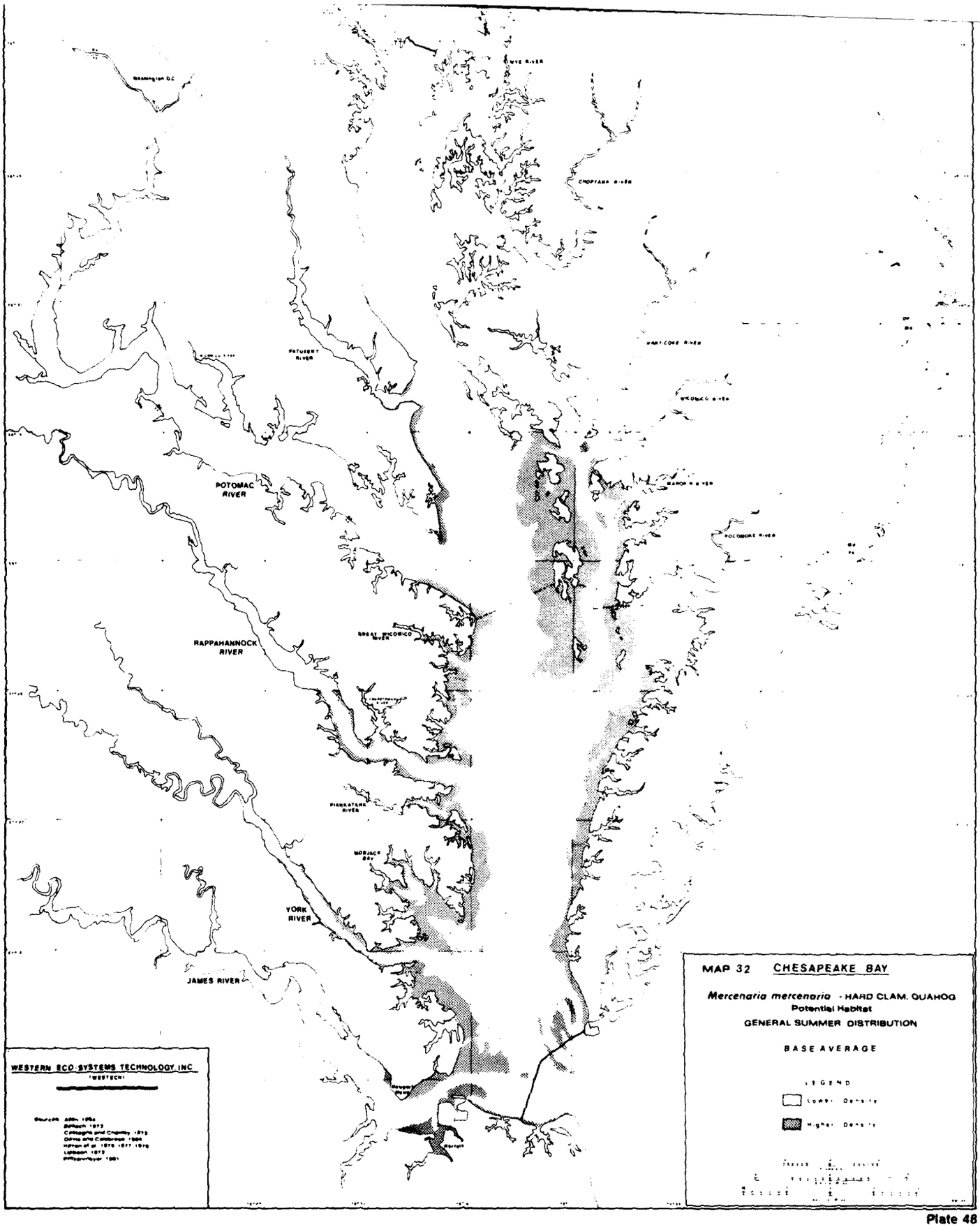
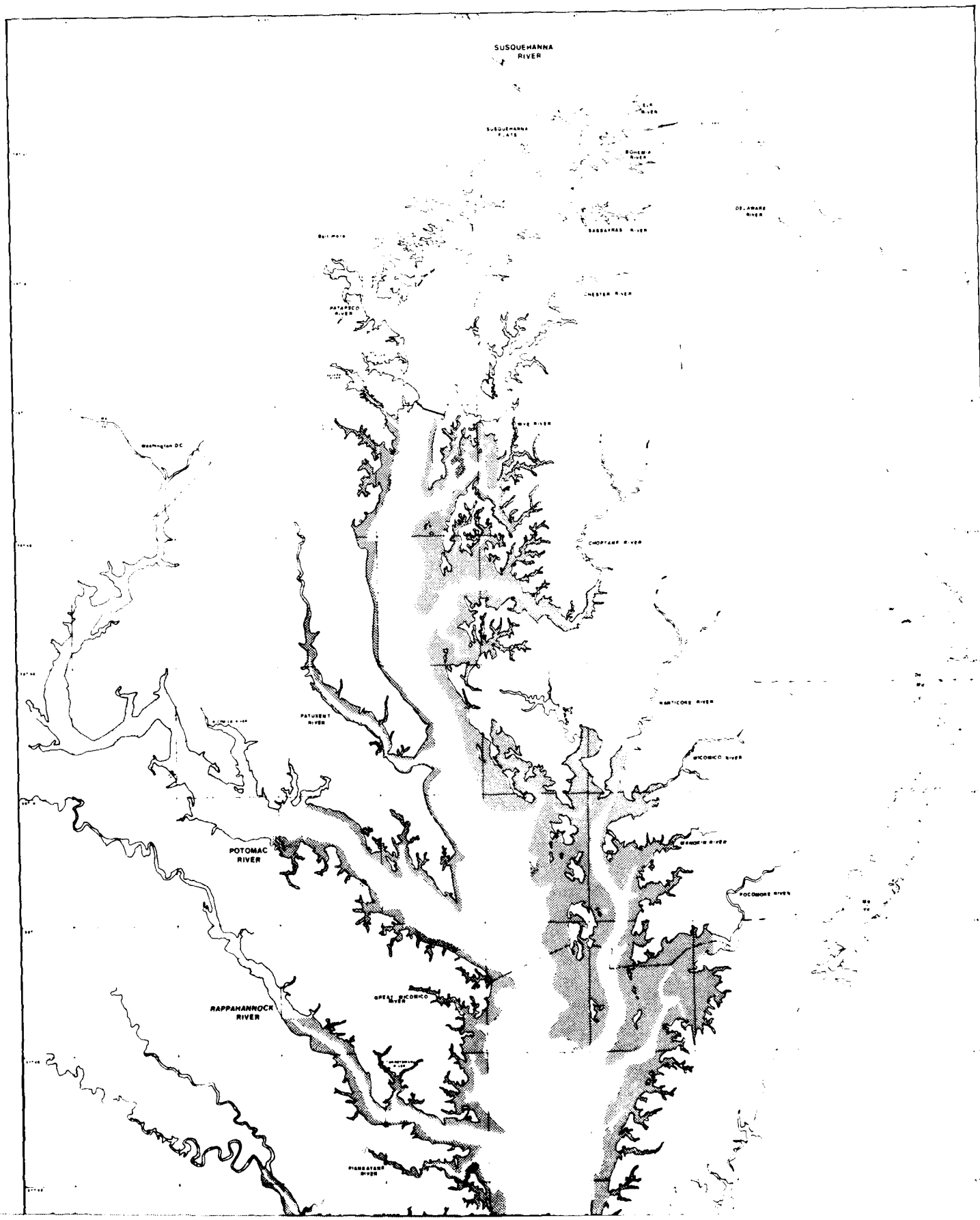

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 32 CHESAPEAKE BAY
Mercenaria mercenaria - HARD CLAM, QUAHOG
Potential Habitat
GENERAL SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Lower Density
Higher Density
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)

Plate 48


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
PATAPSCO RIVER
CHESTER RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

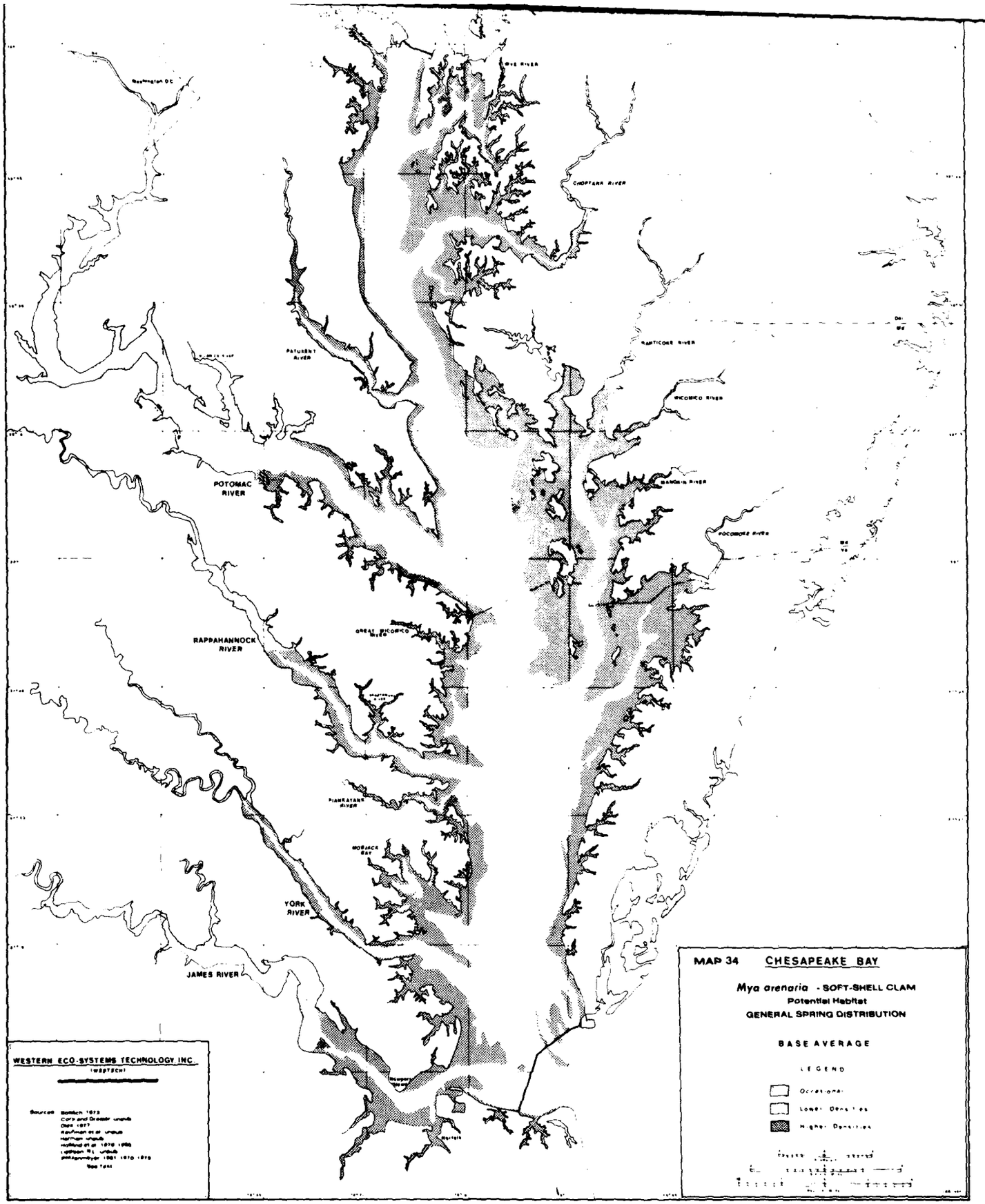
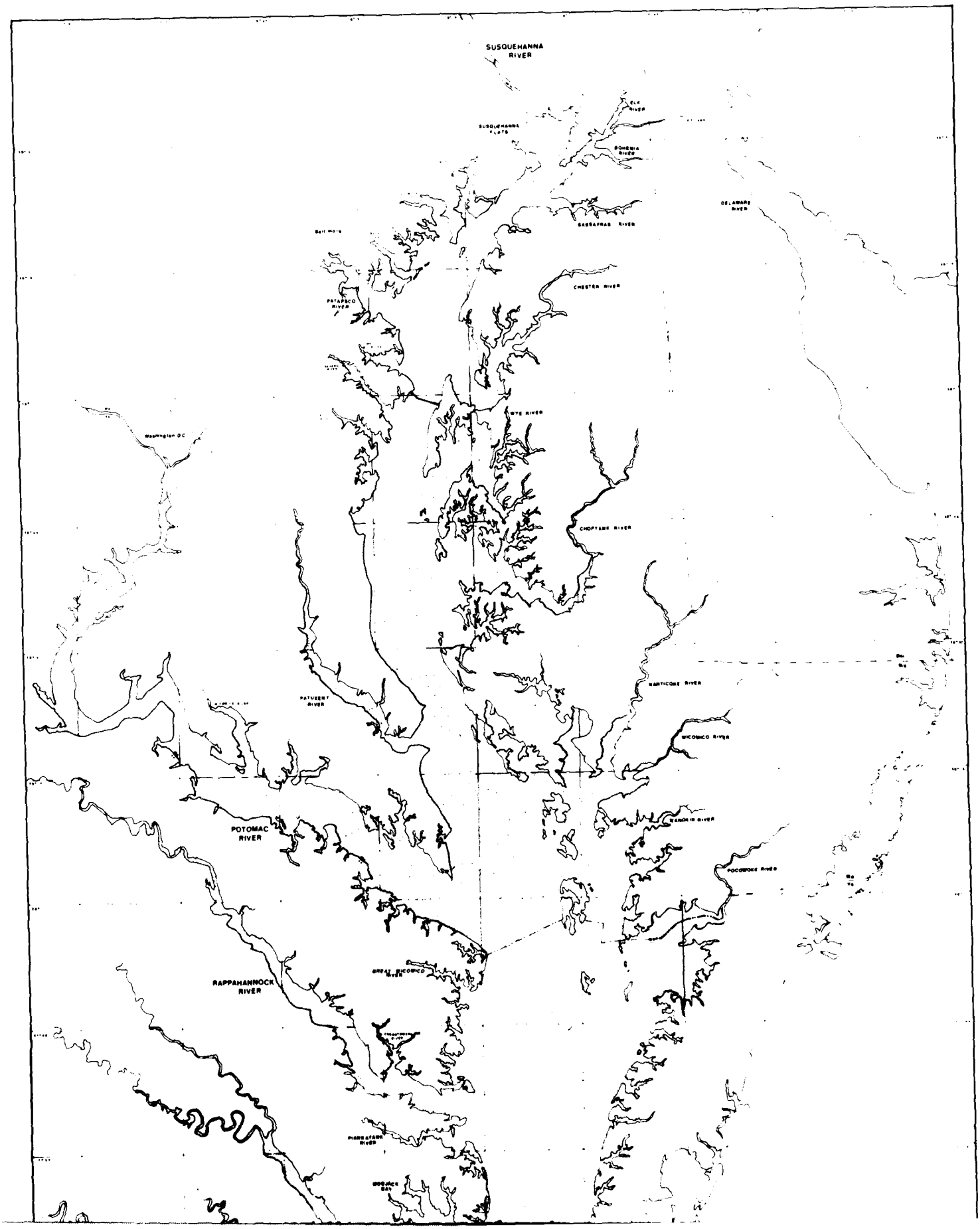
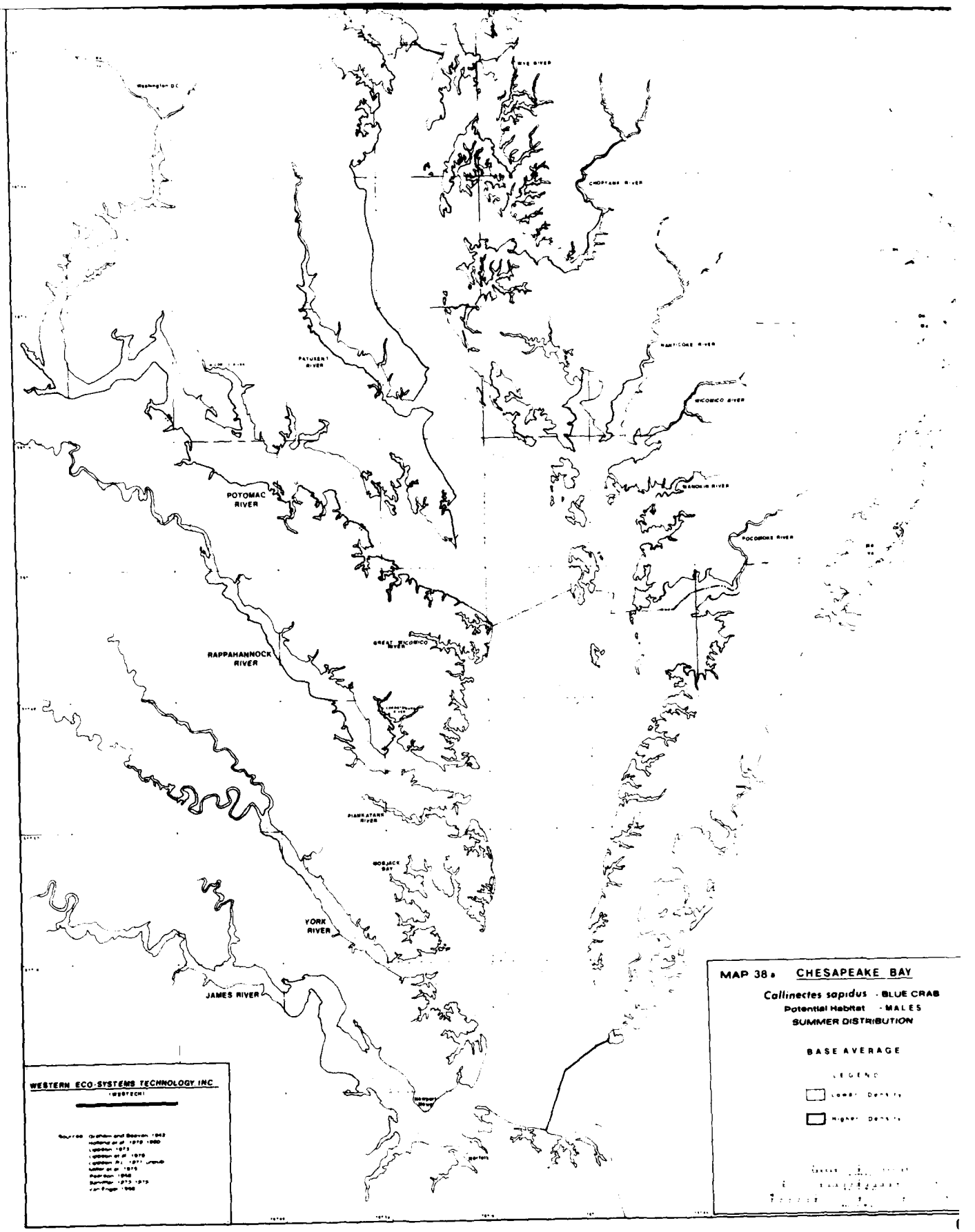
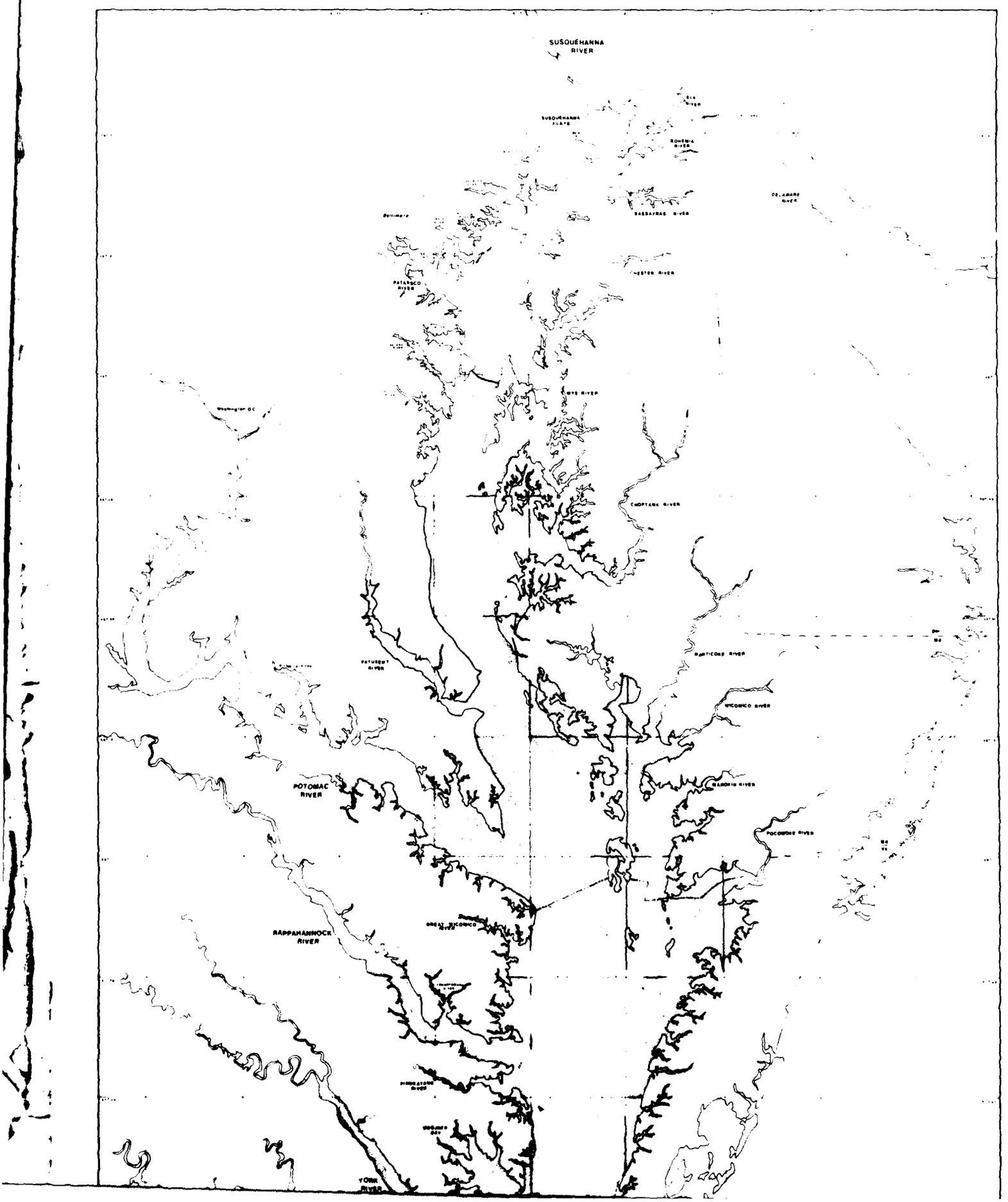

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
MAP 34 CHESAPEAKE BAY
Mya arenaria - SOFT-SHELL CLAM
Potential Habitat
GENERAL SPRING DISTRIBUTION
BASE AVERAGE
LEGEND
Occasional
Lower Densities
Higher Densities
WESTERN ECO-SYSTEMS TECHNOLOGY INC.

Plate 49


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 38 a CHESAPEAKE BAY
Callinectes sapidus - BLUE CRAB
Potential Habitat - MALES
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER

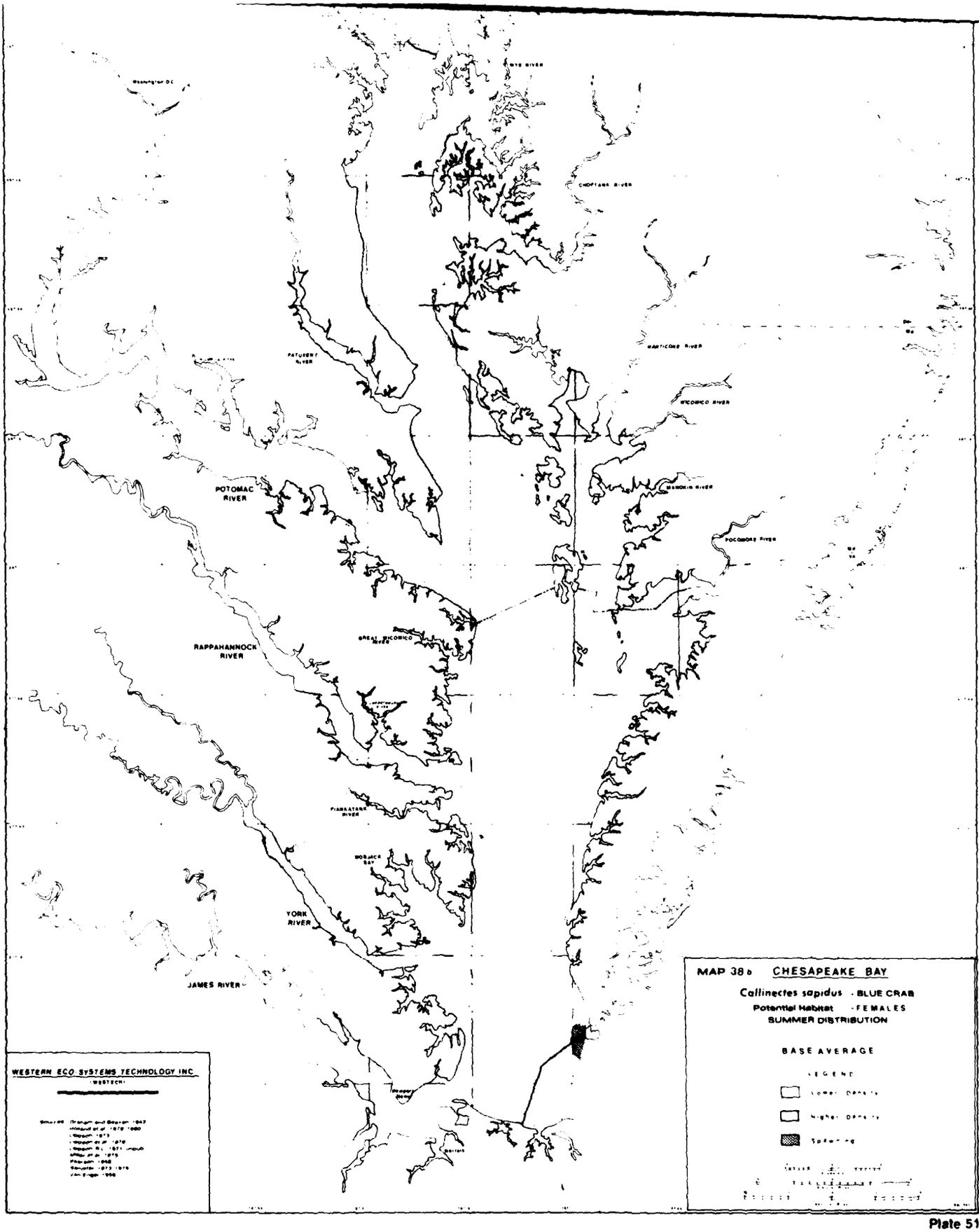
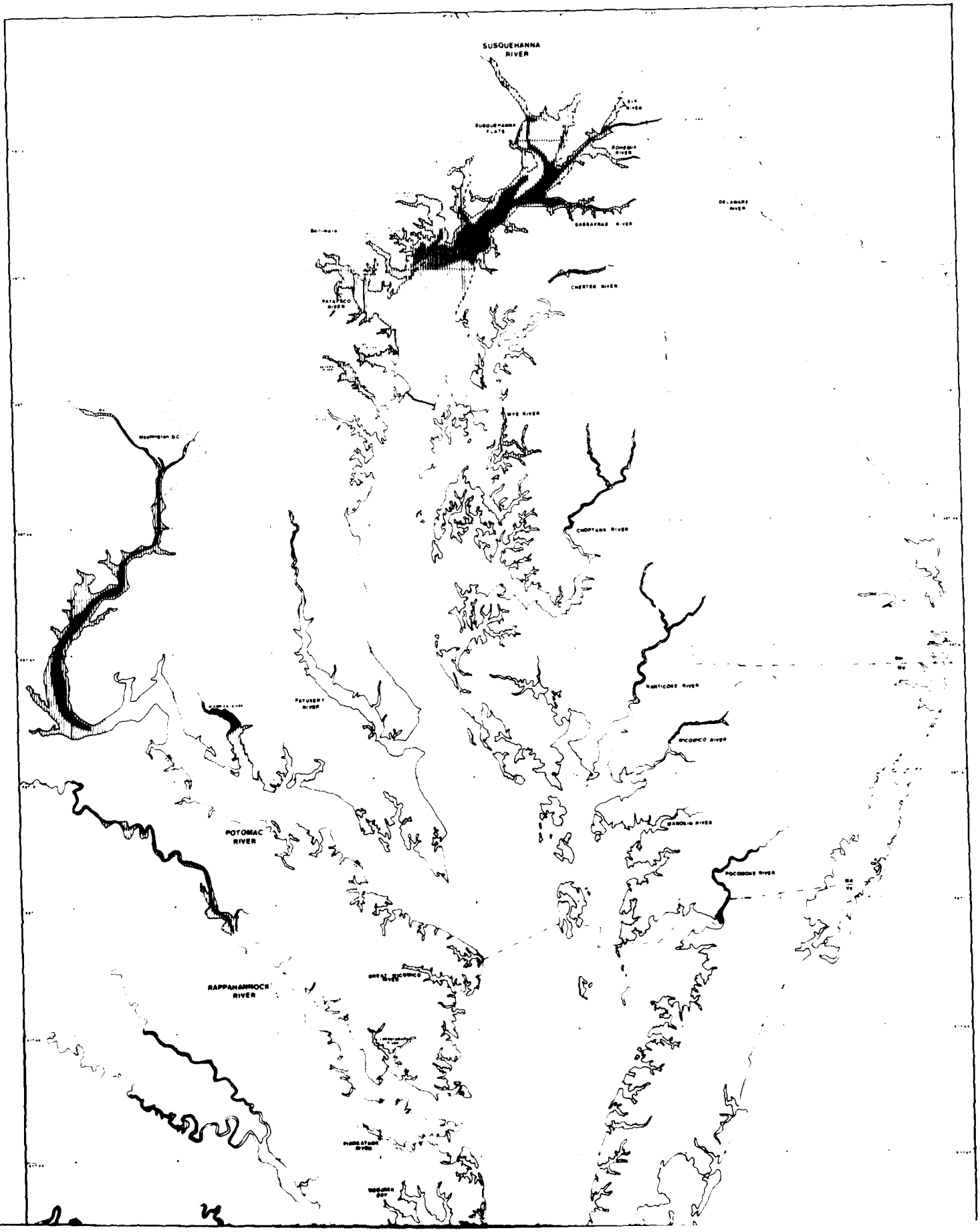

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
MANTICOKE RIVER
WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
MAP 38 b CHESAPEAKE BAY
Callinectes sapidus - BLUE CRAB
Potential Habitat - FEMALES
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
WESTERN ECO SYSTEMS TECHNOLOGY INC.

Plate 51


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY

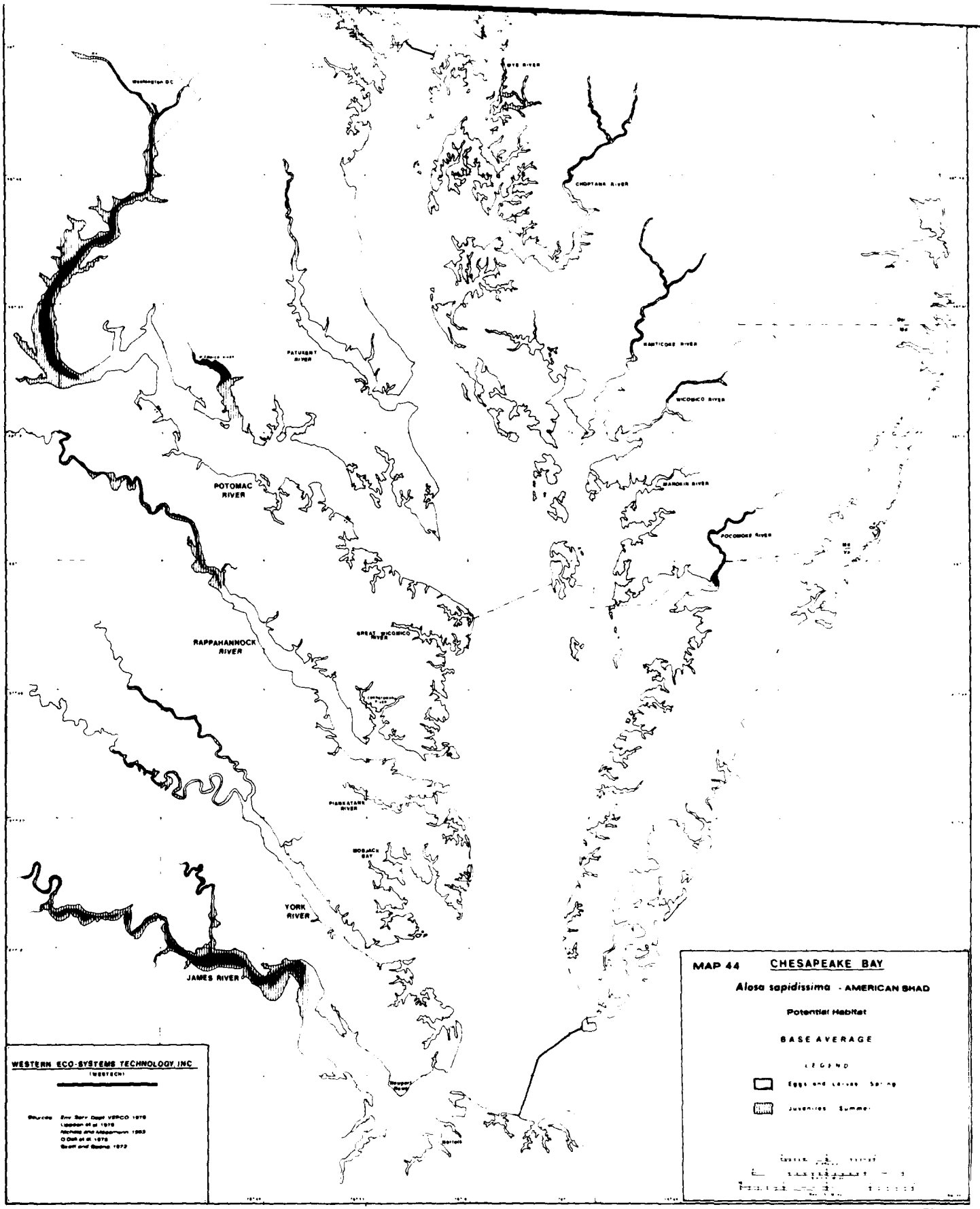
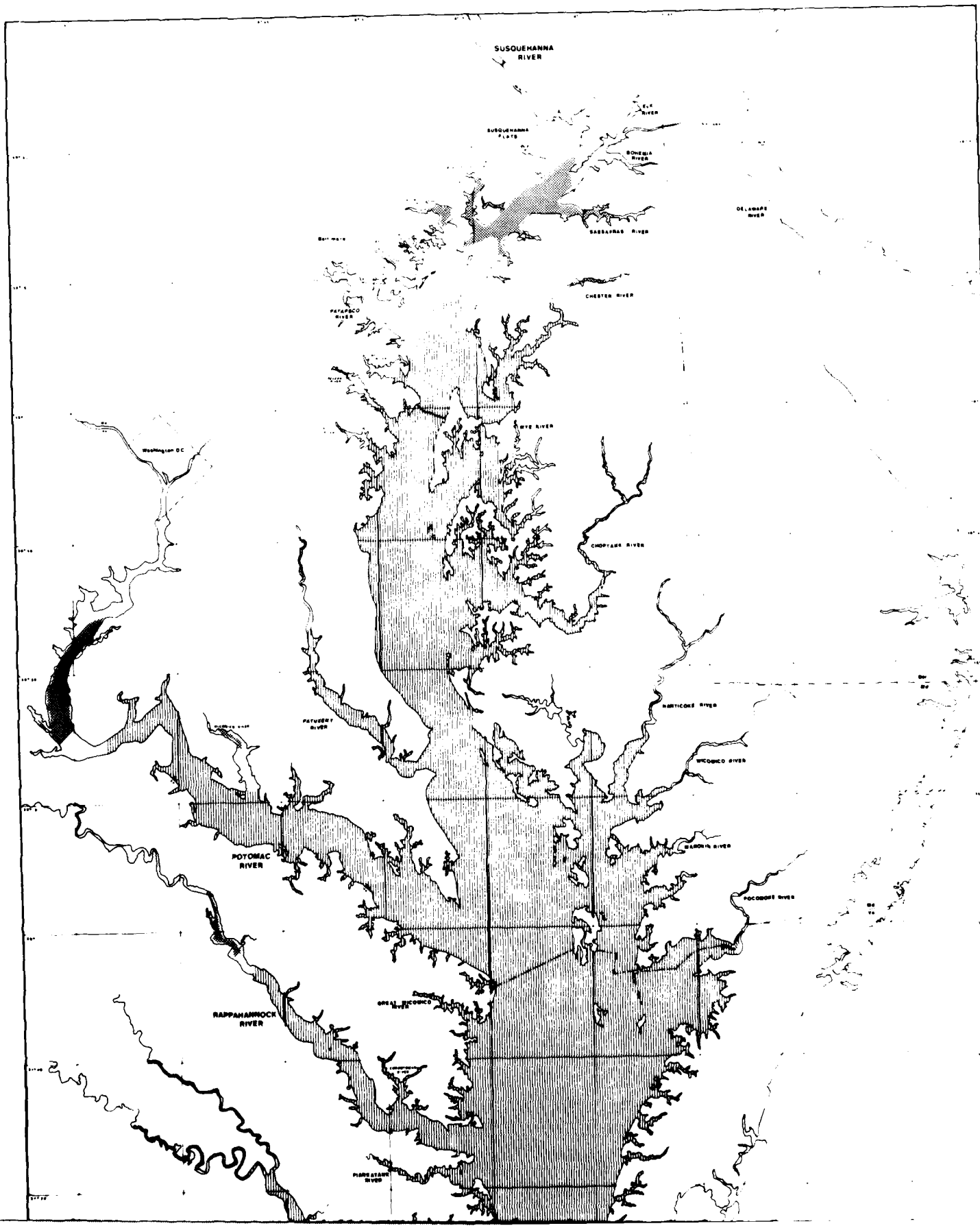

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 44 CHESAPEAKE BAY
Alosa sapidissima - AMERICAN SHAD
Potential Habitat
BASE AVERAGE
LEGEND
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)

Plate 52


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
CHESTER RIVER
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WYE RIVER
Washington DC
CHOPTANK RIVER
NANTICOKE RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

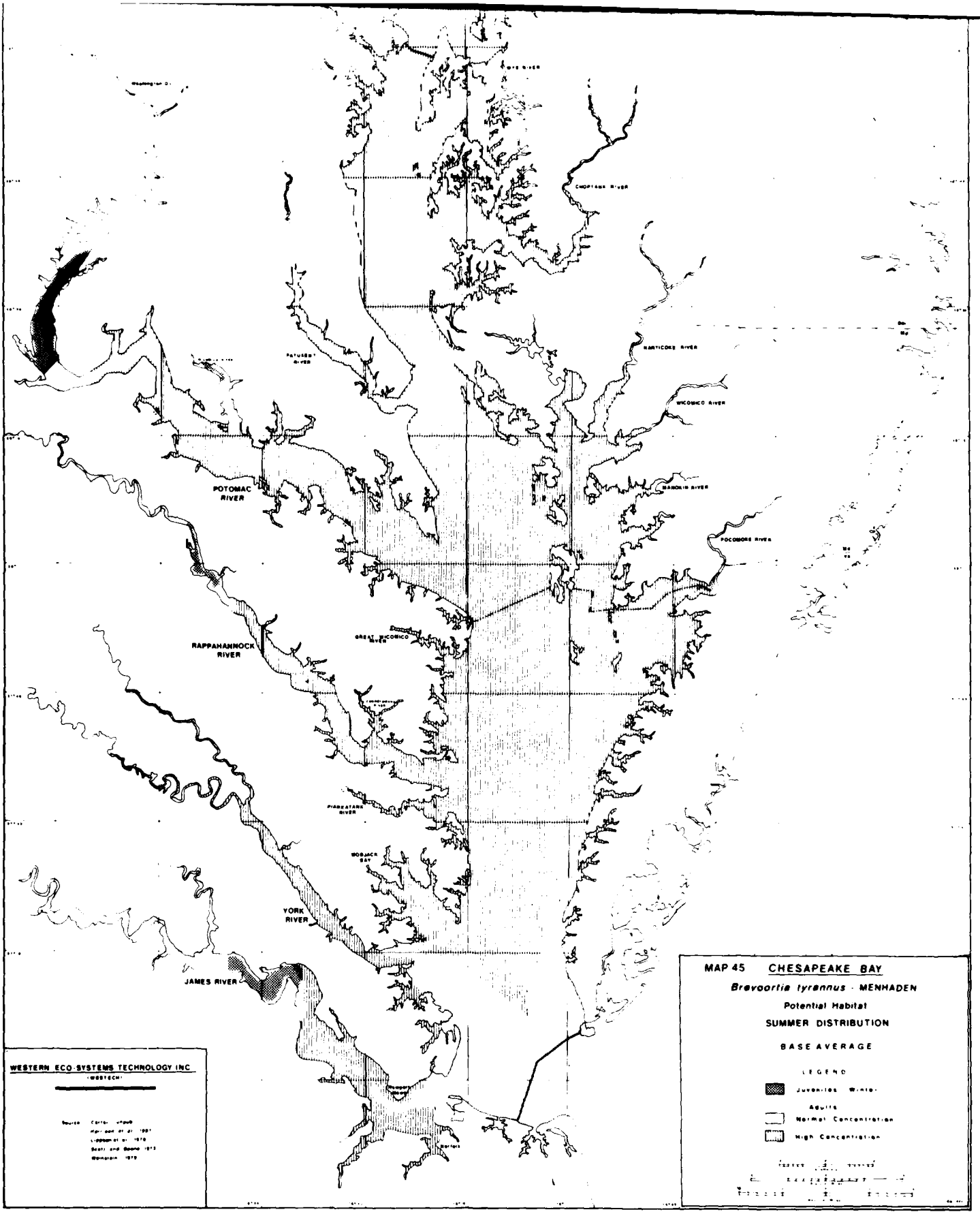
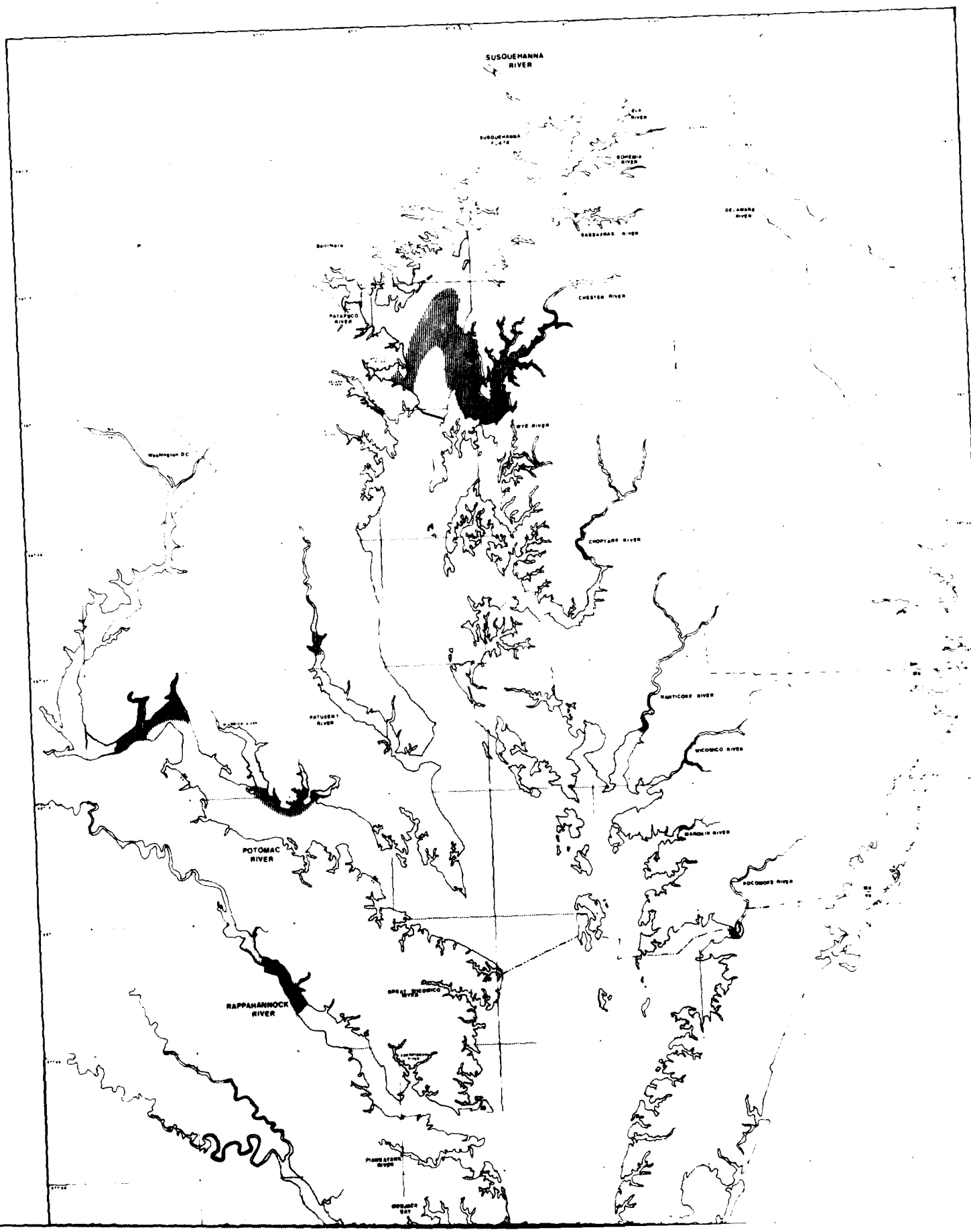

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 45 CHESAPEAKE BAY
Brevoortia tyrannus - MENHADEN
Potential Habitat
SUMMER DISTRIBUTION
BASE AVERAGE
LEGEND
Juveniles Winter
Adults
Normal Concentration
High Concentration
WESTERN ECO-SYSTEMS TECHNOLOGY INC

Plate 53


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
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MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

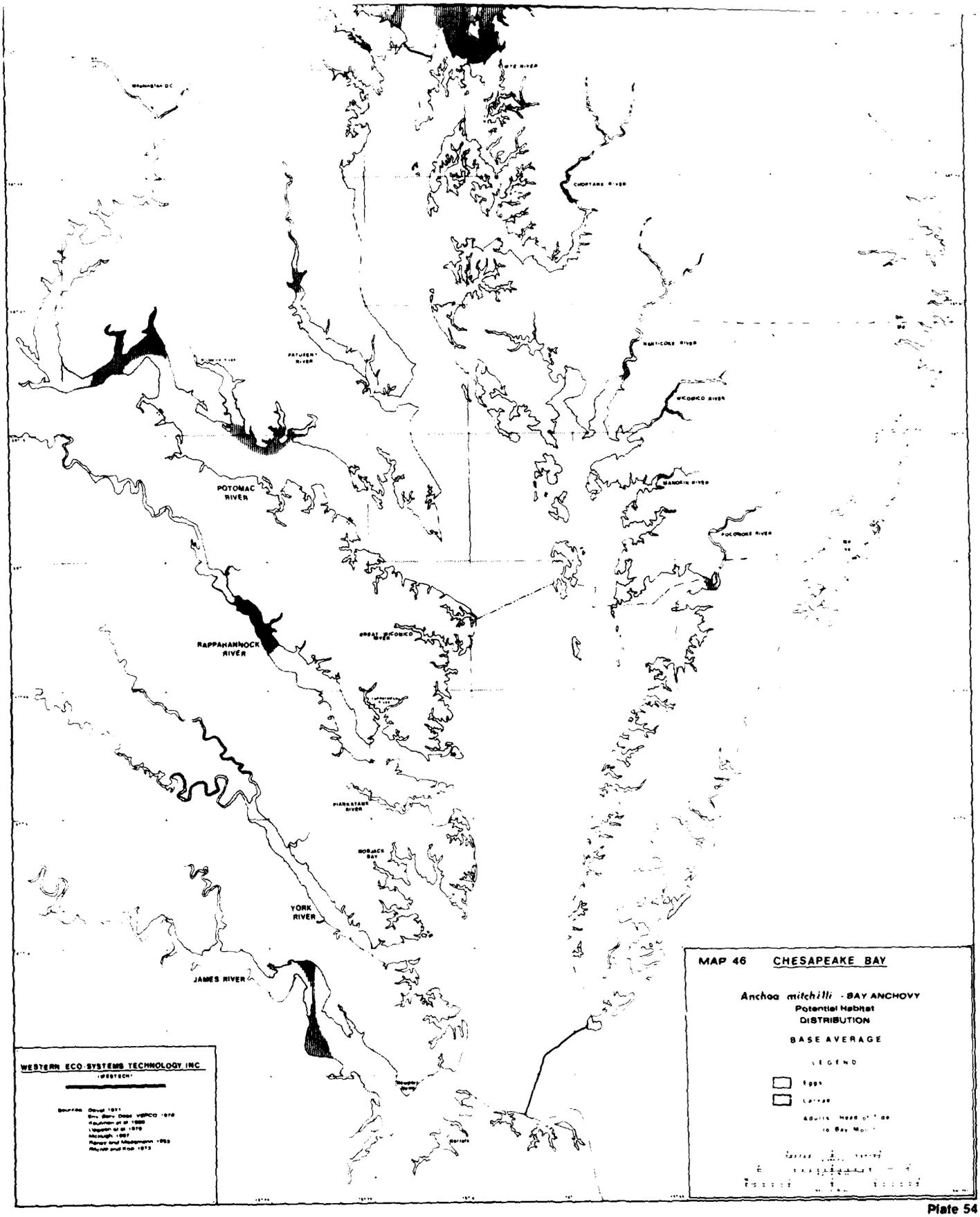
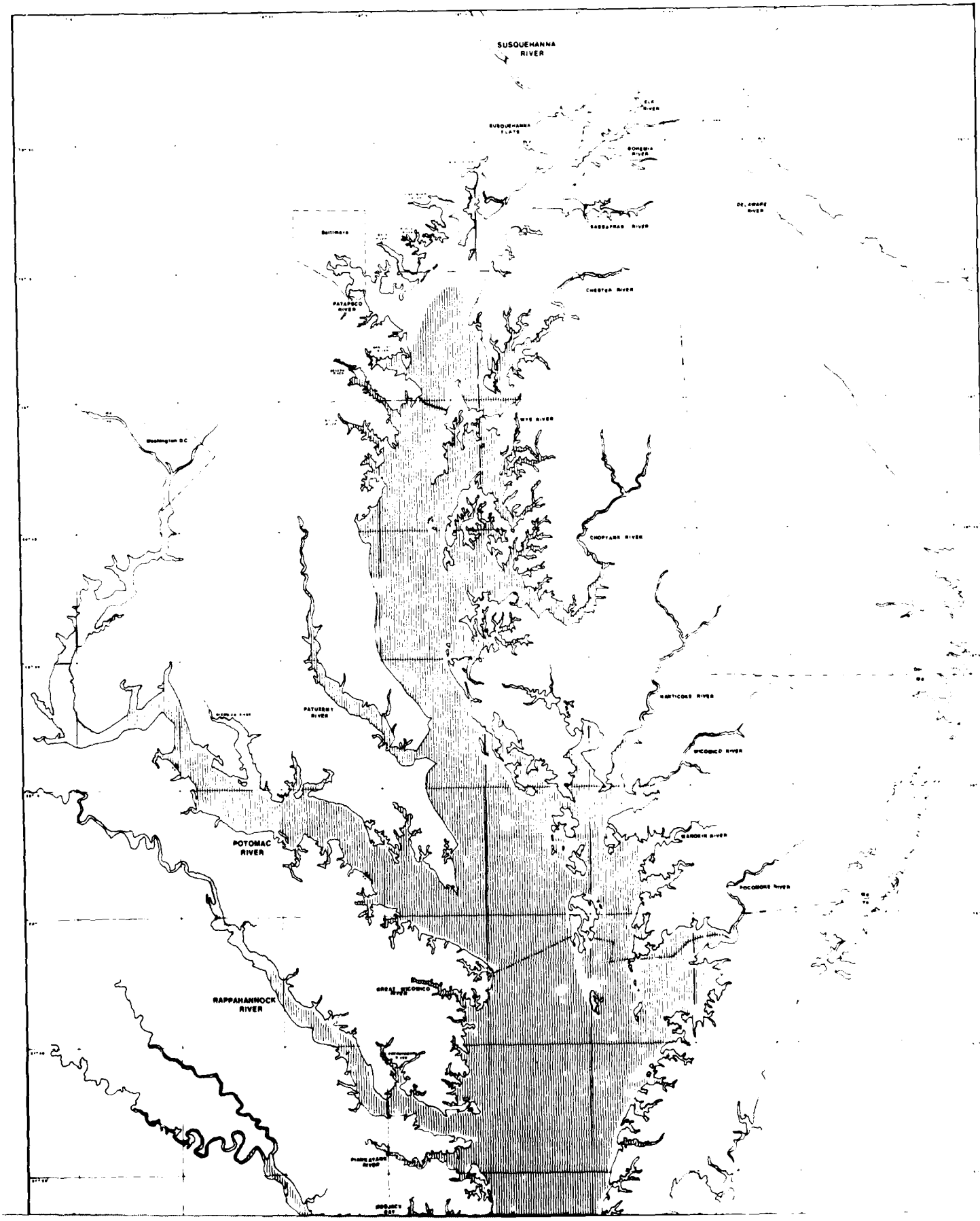

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 46 CHESAPEAKE BAY
Anchoa mitchilli - BAY ANCHOVY
Potential Habitat
DISTRIBUTION
BASE AVERAGE
LEGEND
Eggs
Larvae
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.

Plate 54


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
Baltimore
Washington DC
NYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
Fredericksburg
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY

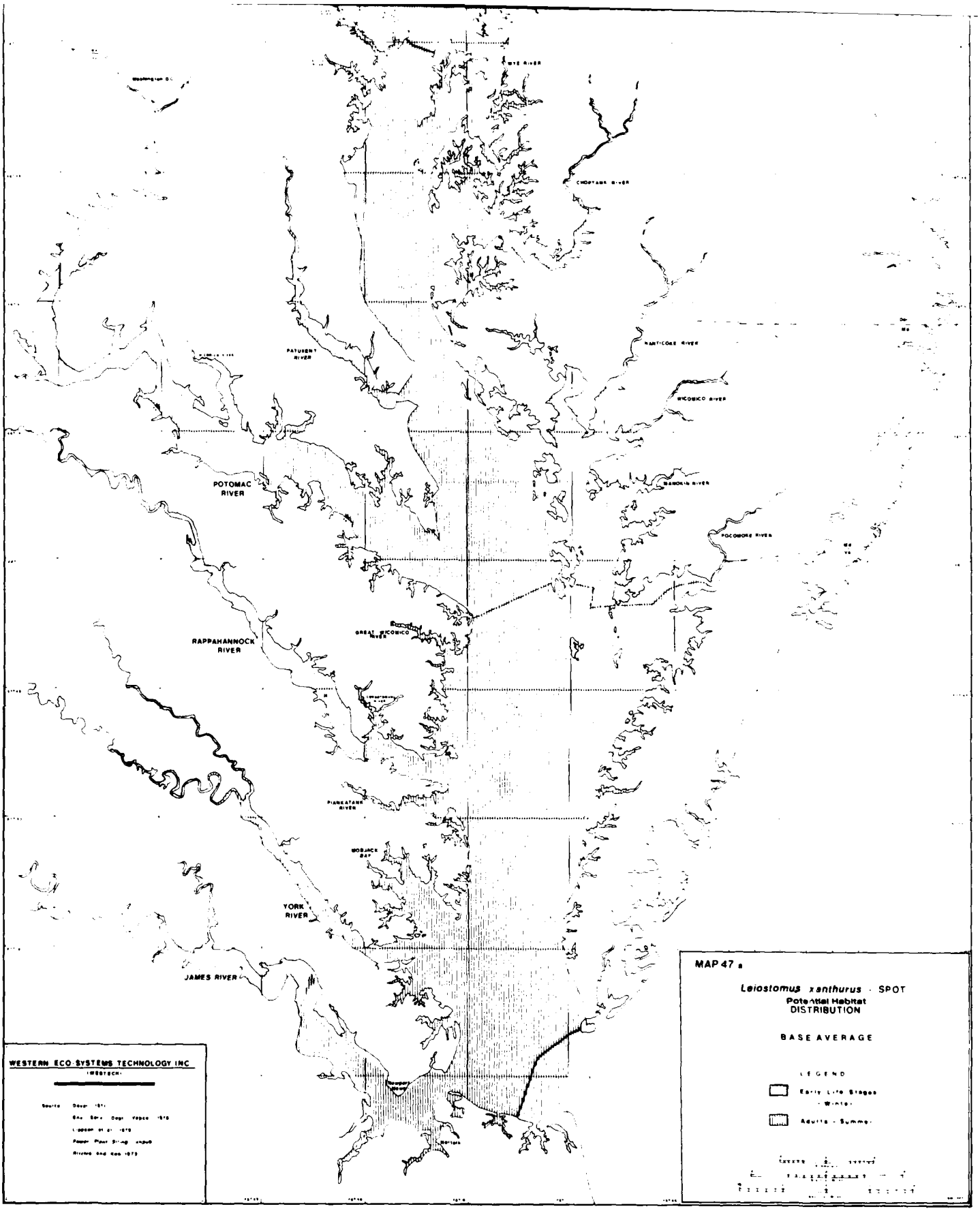
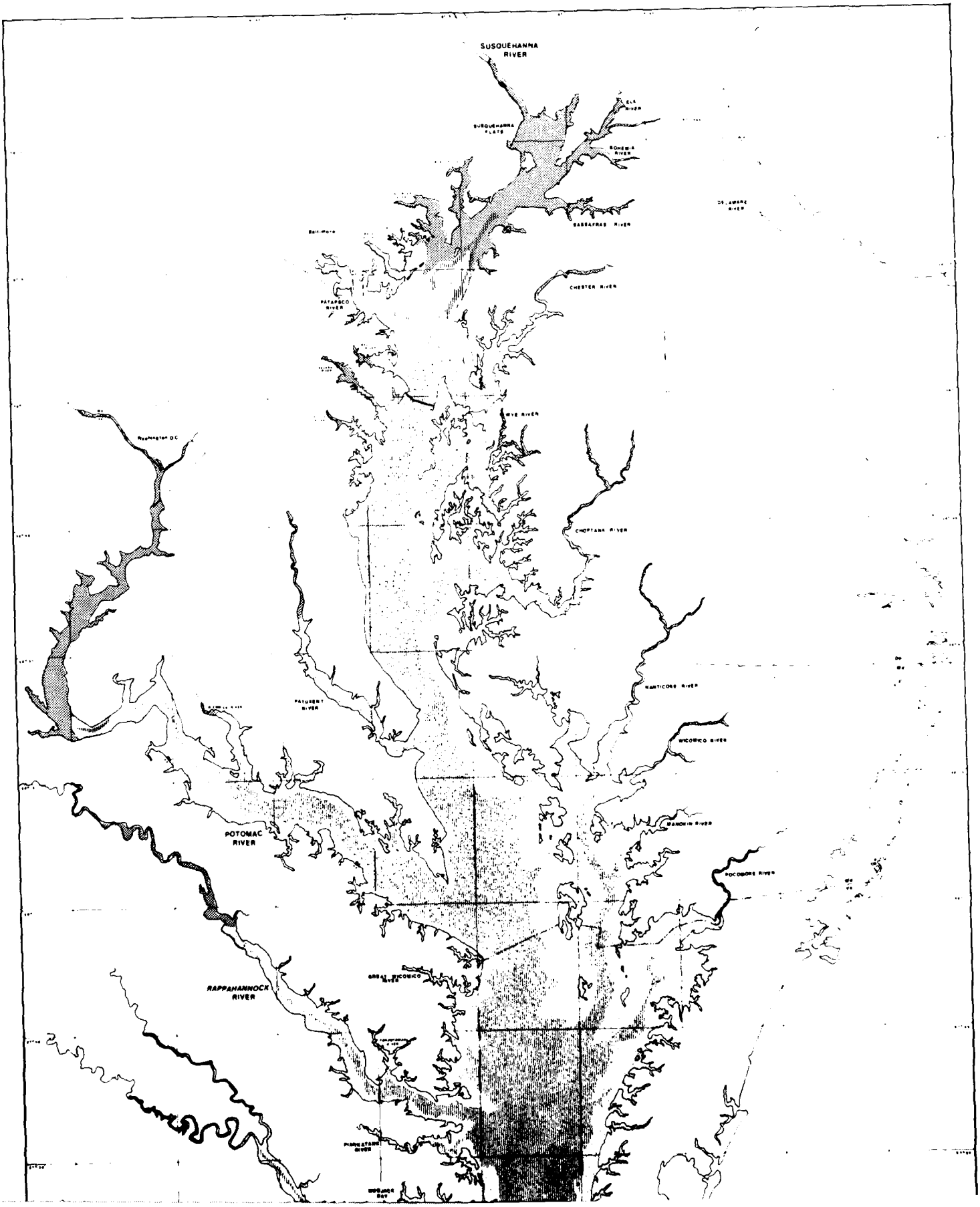
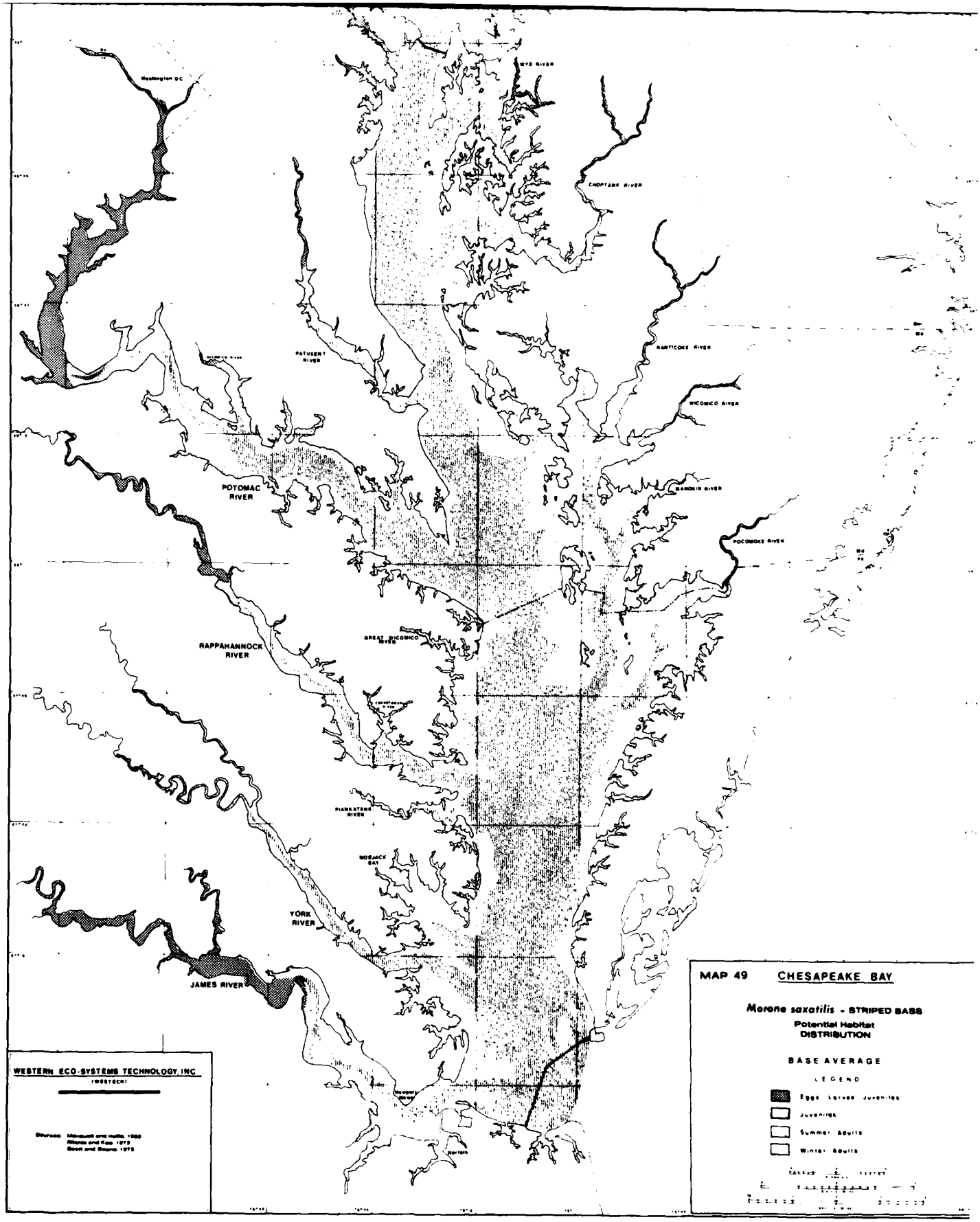
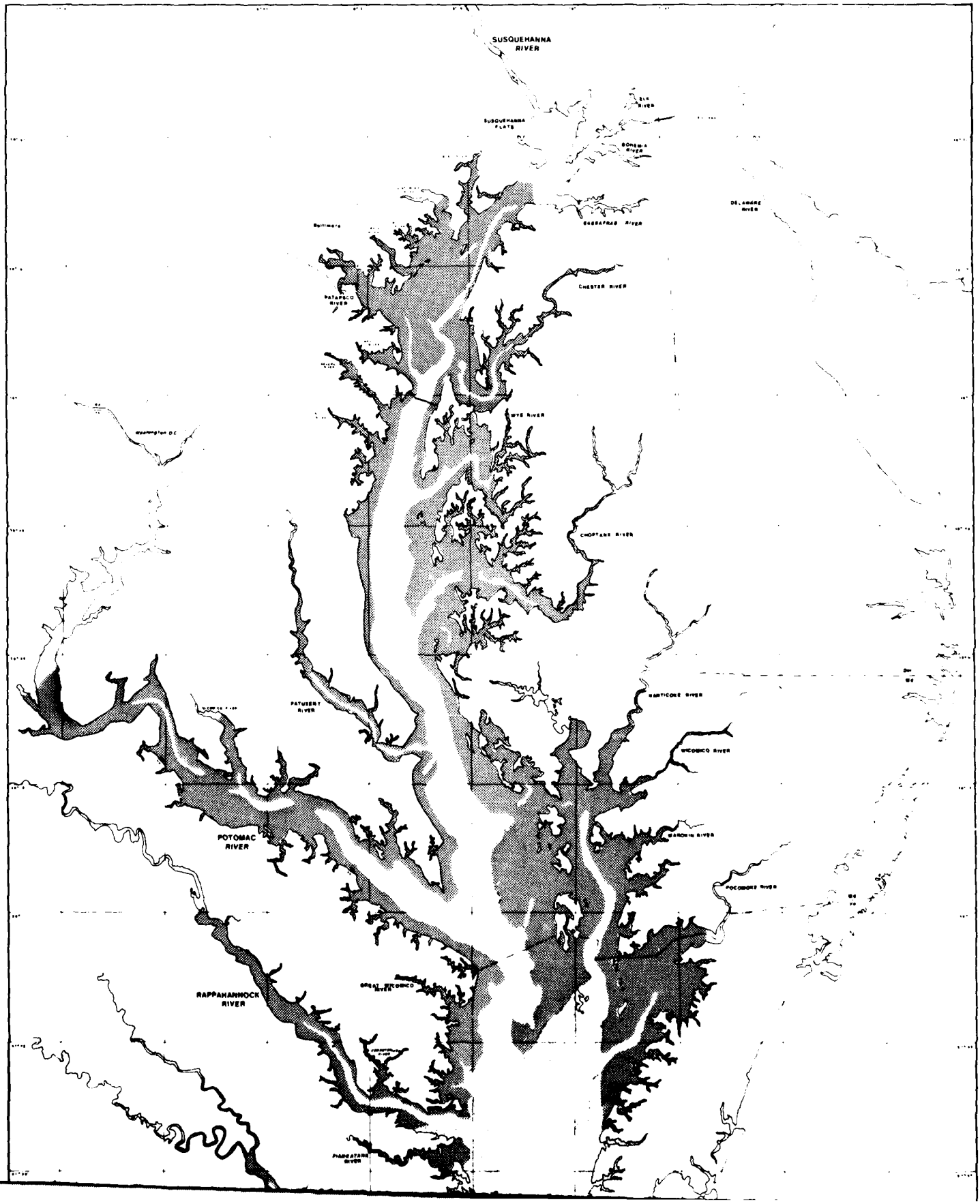

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
PIANKATANK RIVER
MOBJACK BAY
MAP 47 a
Leiostomus xanthurus - SPOT
Potential Habitat
DISTRIBUTION
BASE AVERAGE
LEGEND
Early Life Stages
- Winter
Adults - Summer
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)

Plate 55


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY


Washington DC
PATUXENT RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
CHOPTANK RIVER
WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY, INC
(WESTECH)
MAP 49 CHESAPEAKE BAY
Morone saxatilis - STRIPED BASS
Potential Habitat
DISTRIBUTION
BASE AVERAGE
LEGEND
Eggs Larvae Juveniles
Juveniles
Summer Adults
Winter Adults

Plate


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
PEKOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

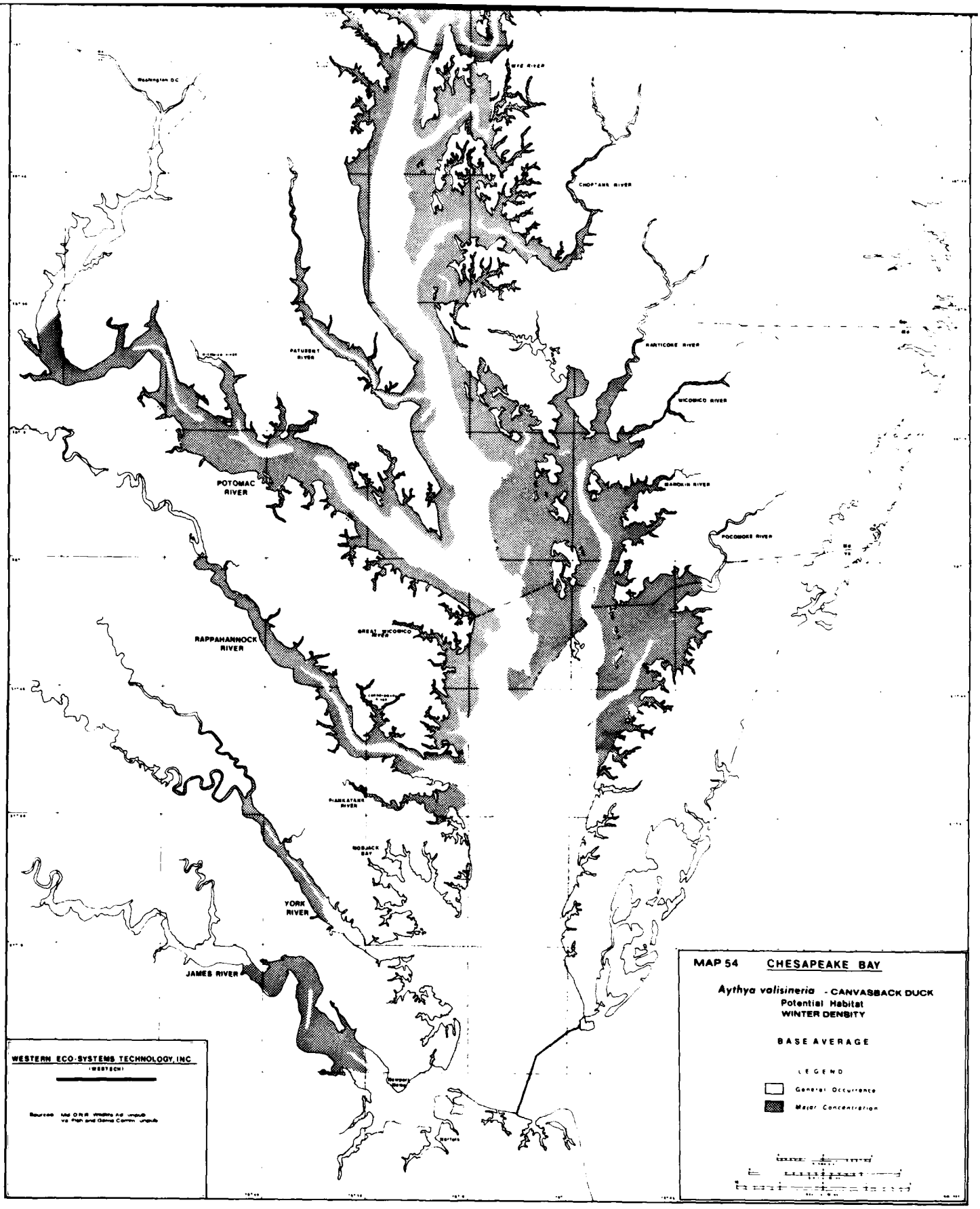
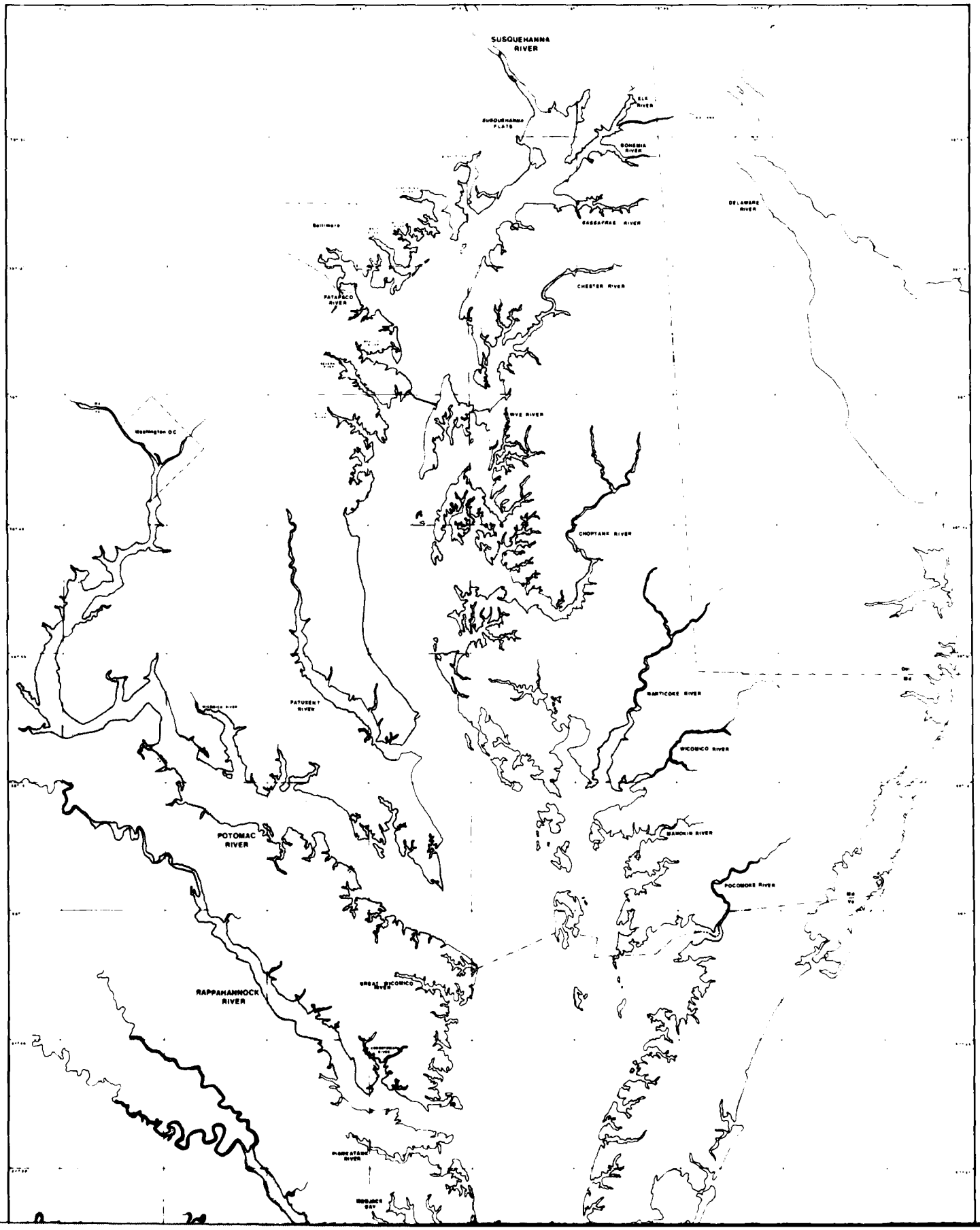

Washington DC
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY, INC
(WESTECH)
MAP 54 CHESAPEAKE BAY
Aythya valisineria - CANVASBACK DUCK
Potential Habitat
WINTER DENSITY
BASE AVERAGE
LEGEND
General Occurrence
Major Concentration

Plate 57


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE River
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY

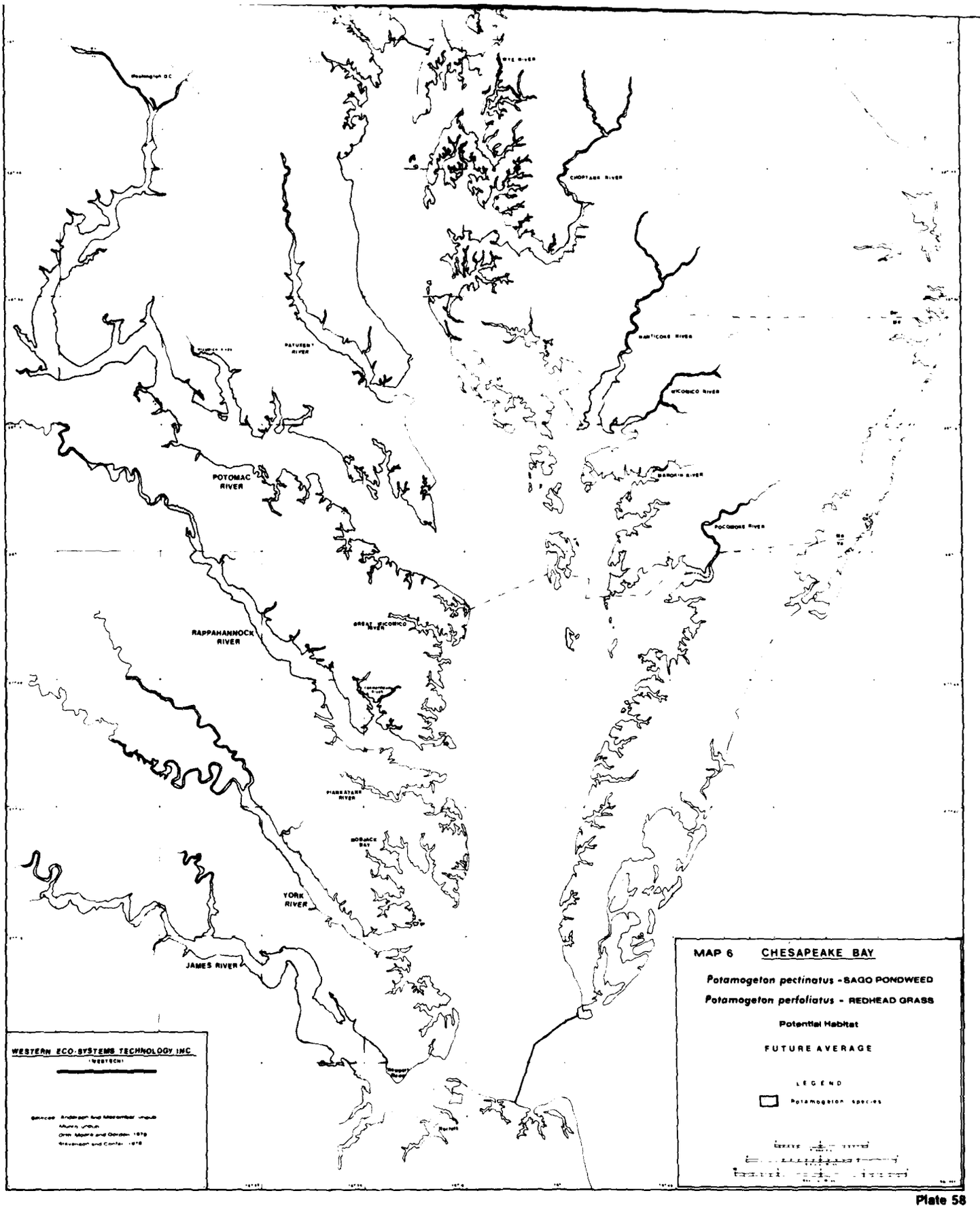
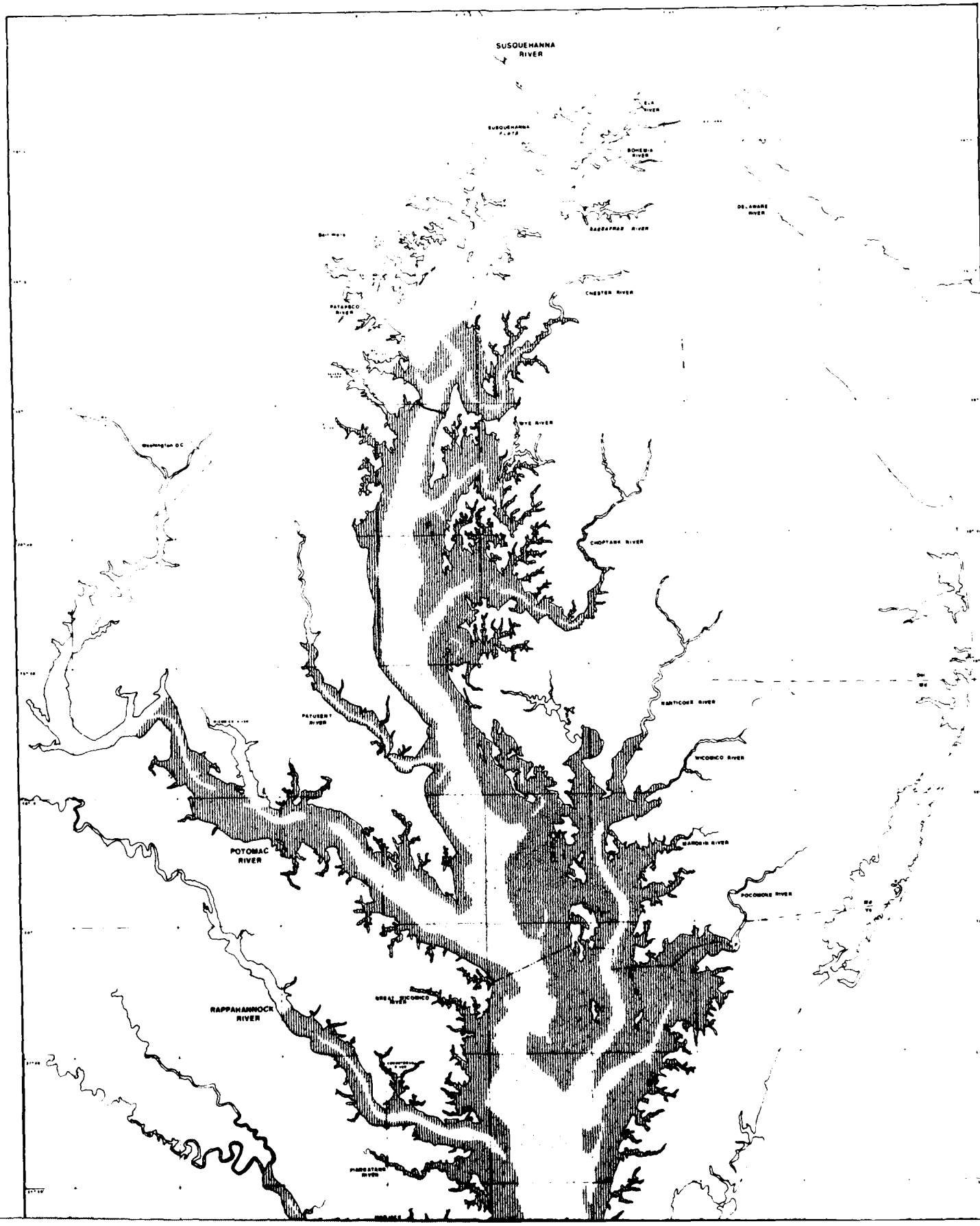

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 6 CHESAPEAKE BAY
Potamogeton pectinatus - SAGO PONDWEED
Potamogeton perfoliatus - REDHEAD GRASS
Potential Habitat
FUTURE AVERAGE
LEGEND
Potamogeton species
WESTERN ECO-SYSTEMS TECHNOLOGY INC.
(WESTECH)

Plate 58


SUSQUEHANNA RIVER
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

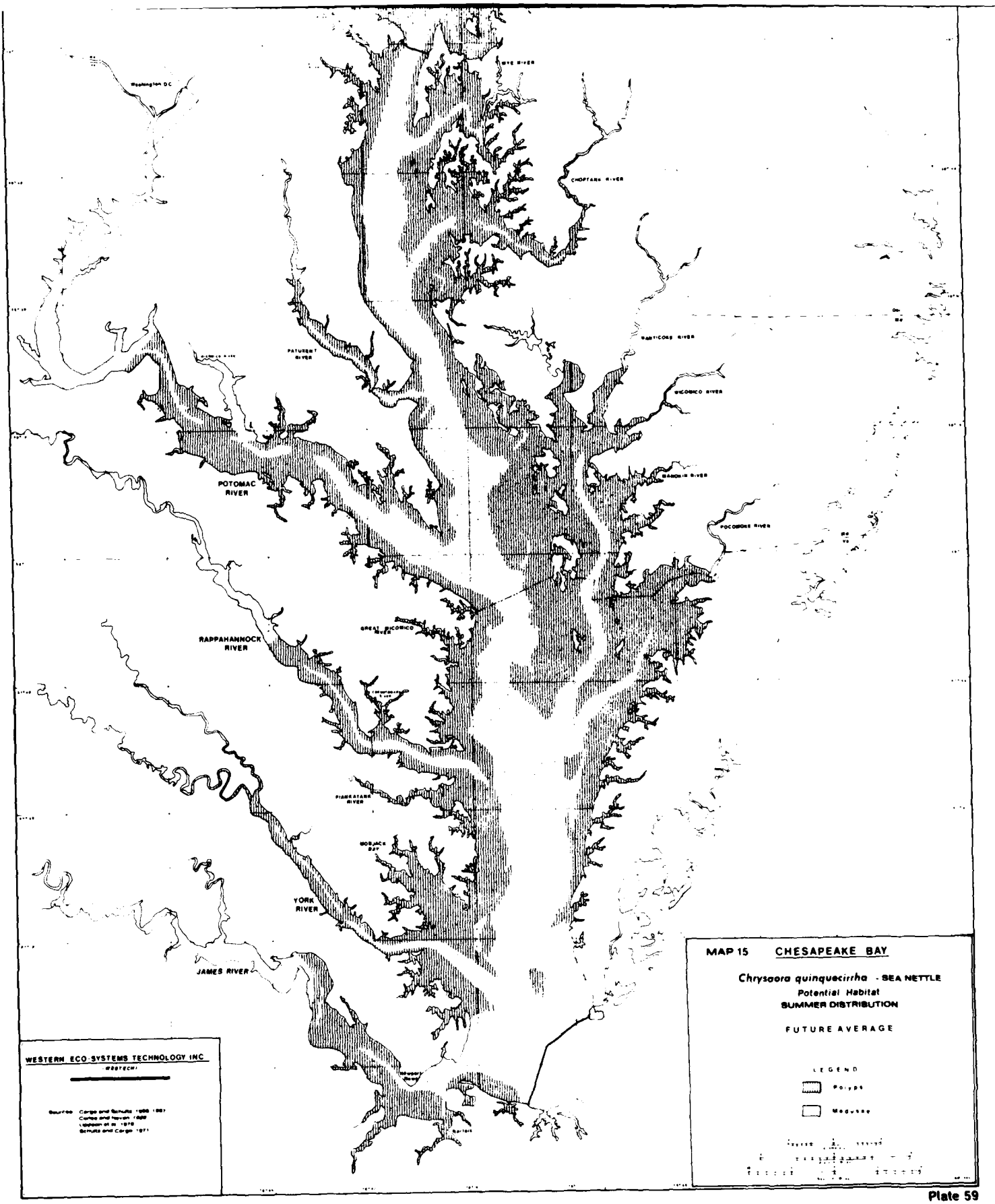
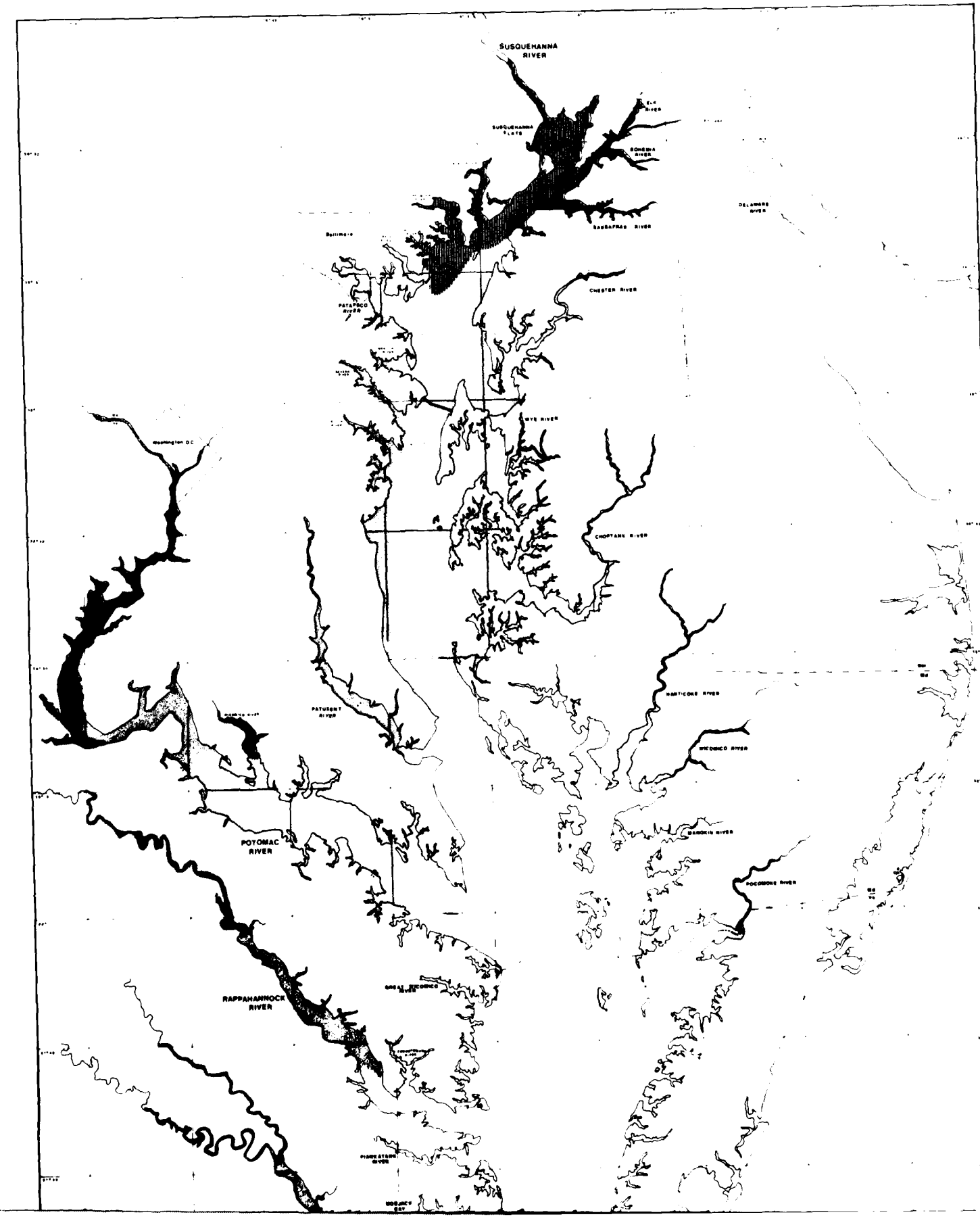

Washington DC
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 15 CHESAPEAKE BAY
Chrysaora quinquecirrha - SEA NETTLE
Potential Habitat
SUMMER DISTRIBUTION
FUTURE AVERAGE
LEGEND
Polyps
Medusae
WESTERN ECO-SYSTEMS TECHNOLOGY INC.

Plate 59


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
HORTICON RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
MOBJACK BAY

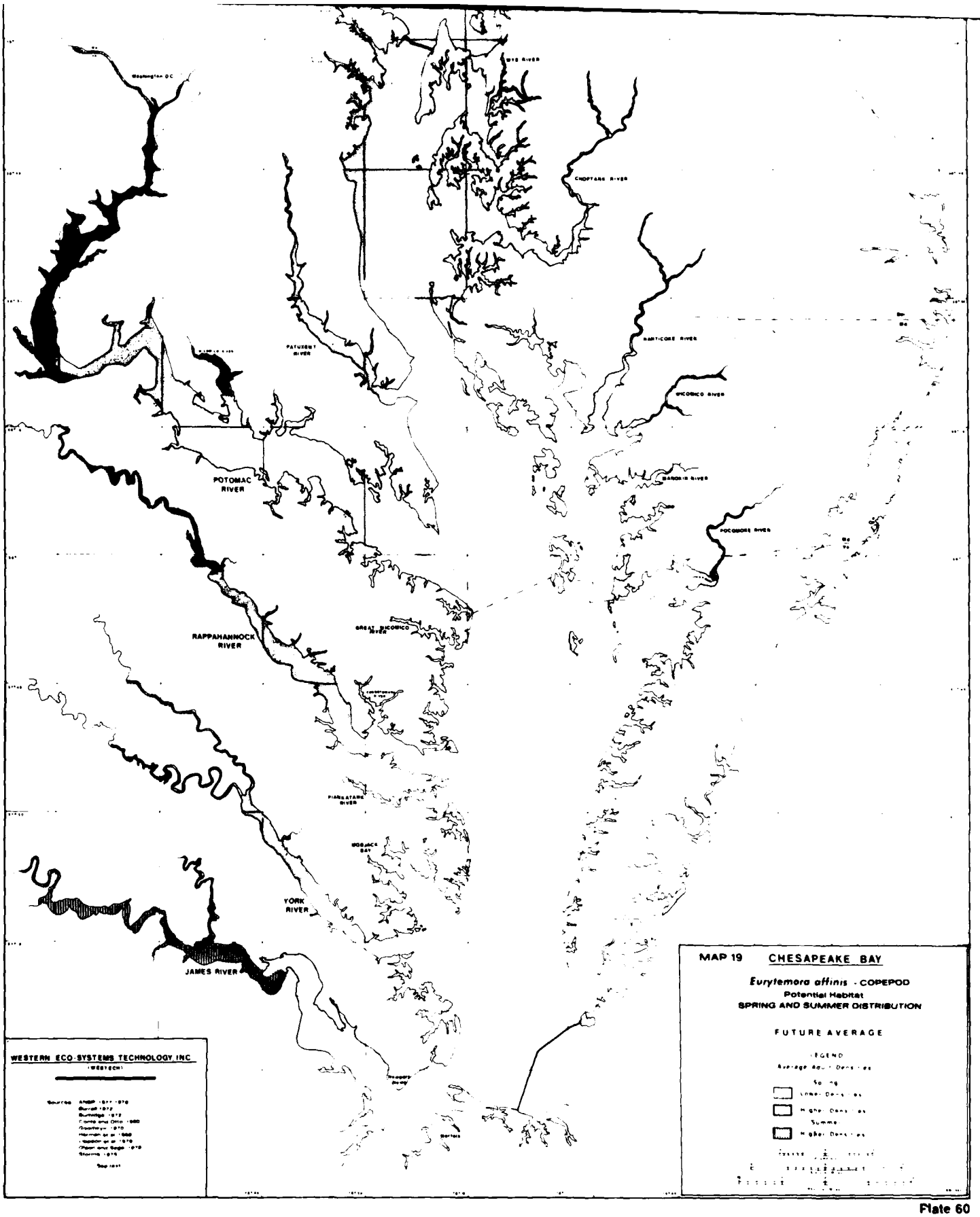
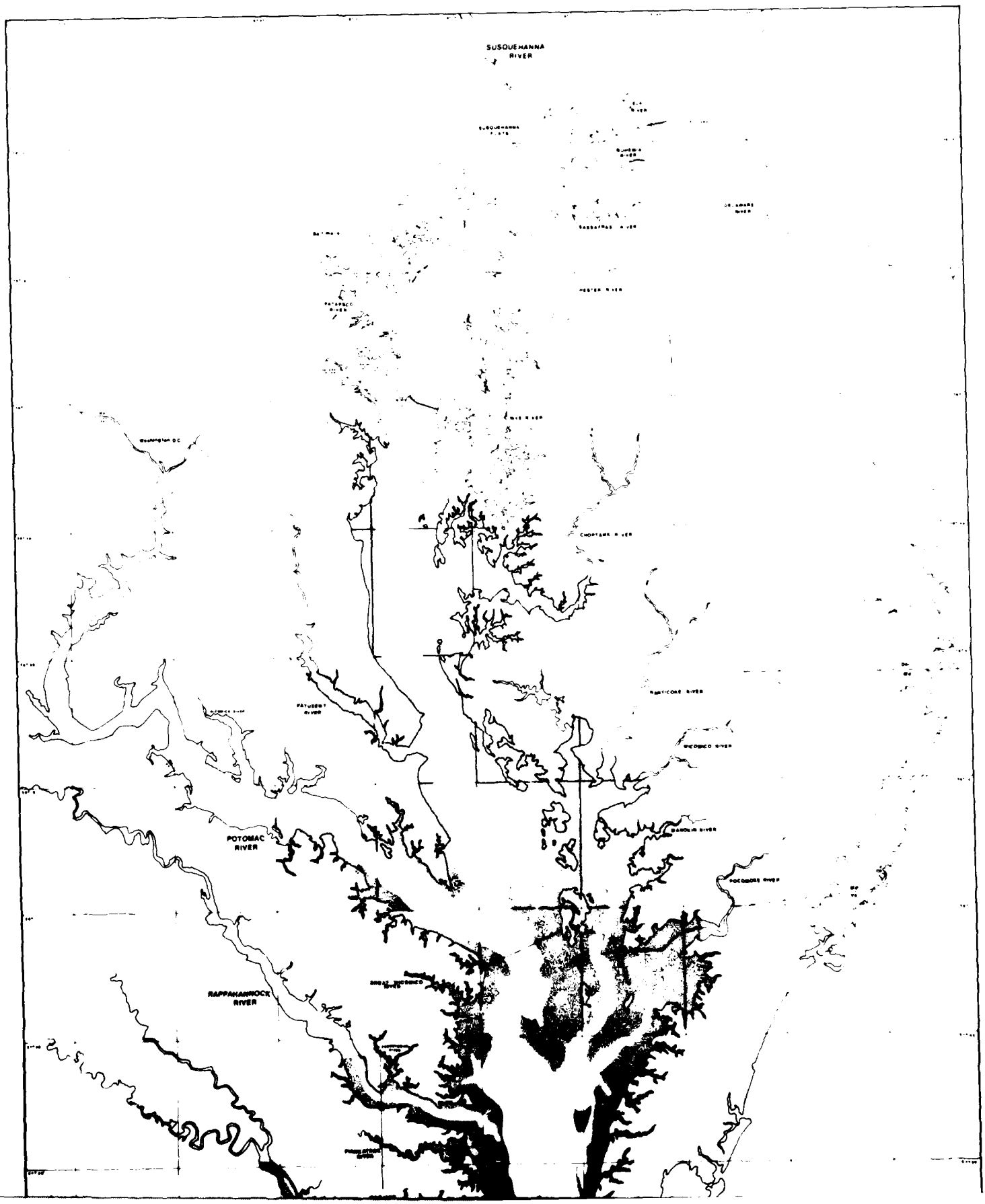

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
PIANKATANK RIVER
MAP 19 CHESAPEAKE BAY
Eurytemora affinis - COPEPOD
Potential Habitat
SPRING AND SUMMER DISTRIBUTION
FUTURE AVERAGE
LEGEND
WESTERN ECO-SYSTEMS TECHNOLOGY INC.

Plate 60


SUSQUEHANNA RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER

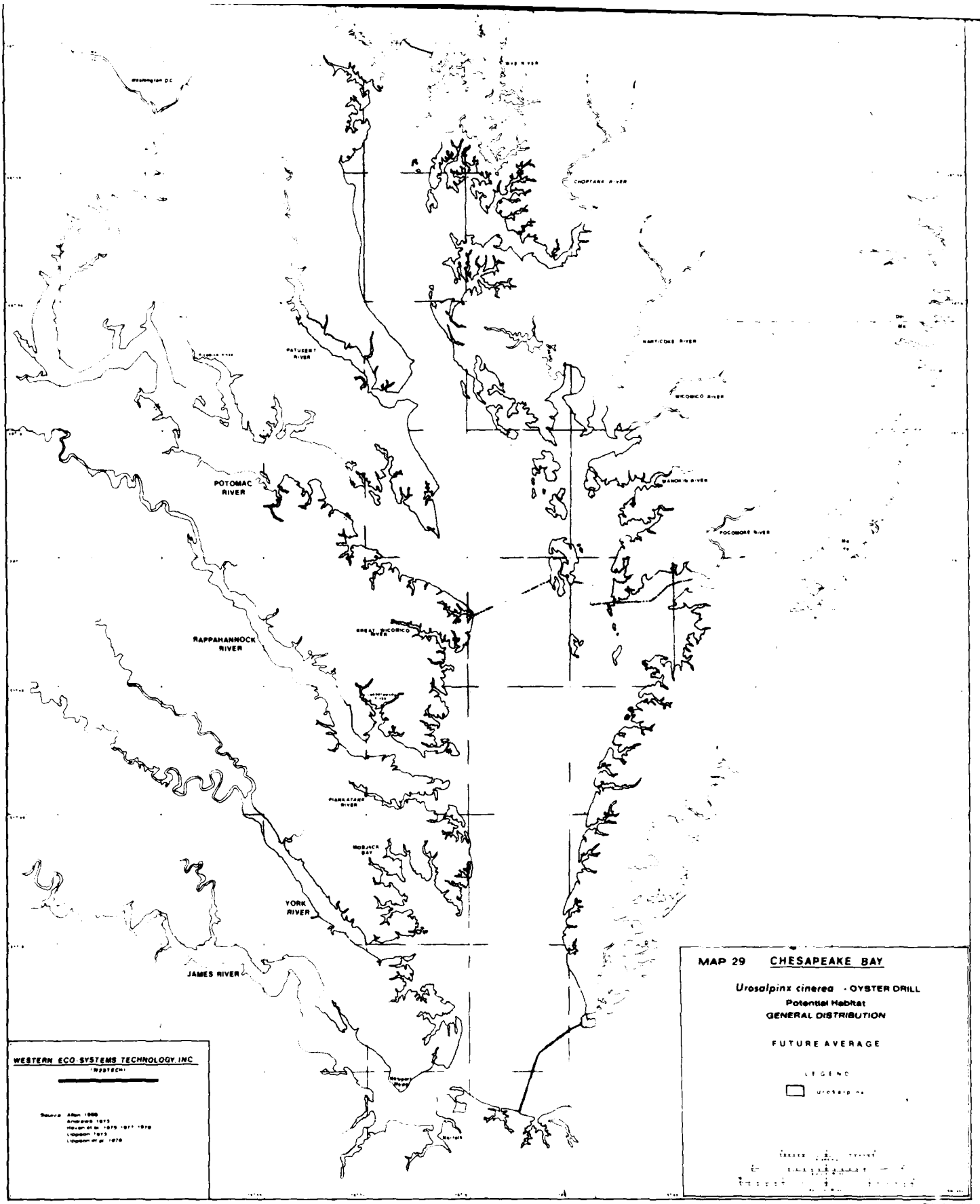
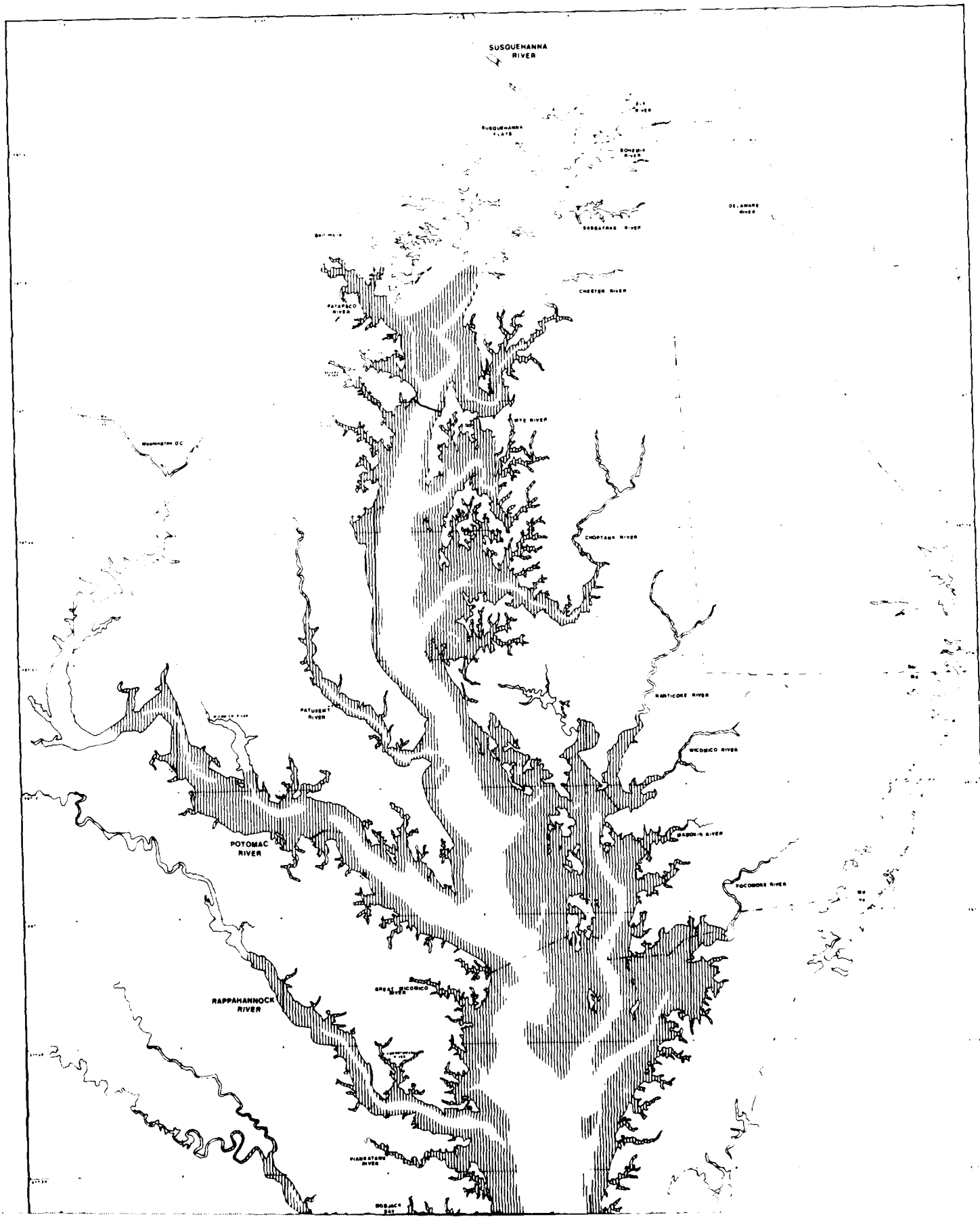

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 29 CHESAPEAKE BAY
Urosalpinx cinerea - OYSTER DRILL
Potential Habitat
GENERAL DISTRIBUTION
FUTURE AVERAGE
LEGEND
WESTERN ECO SYSTEMS TECHNOLOGY INC

Plate 61


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
BALTIMORE
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
WASHINGTON D.C.
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
TANGIER SOUND

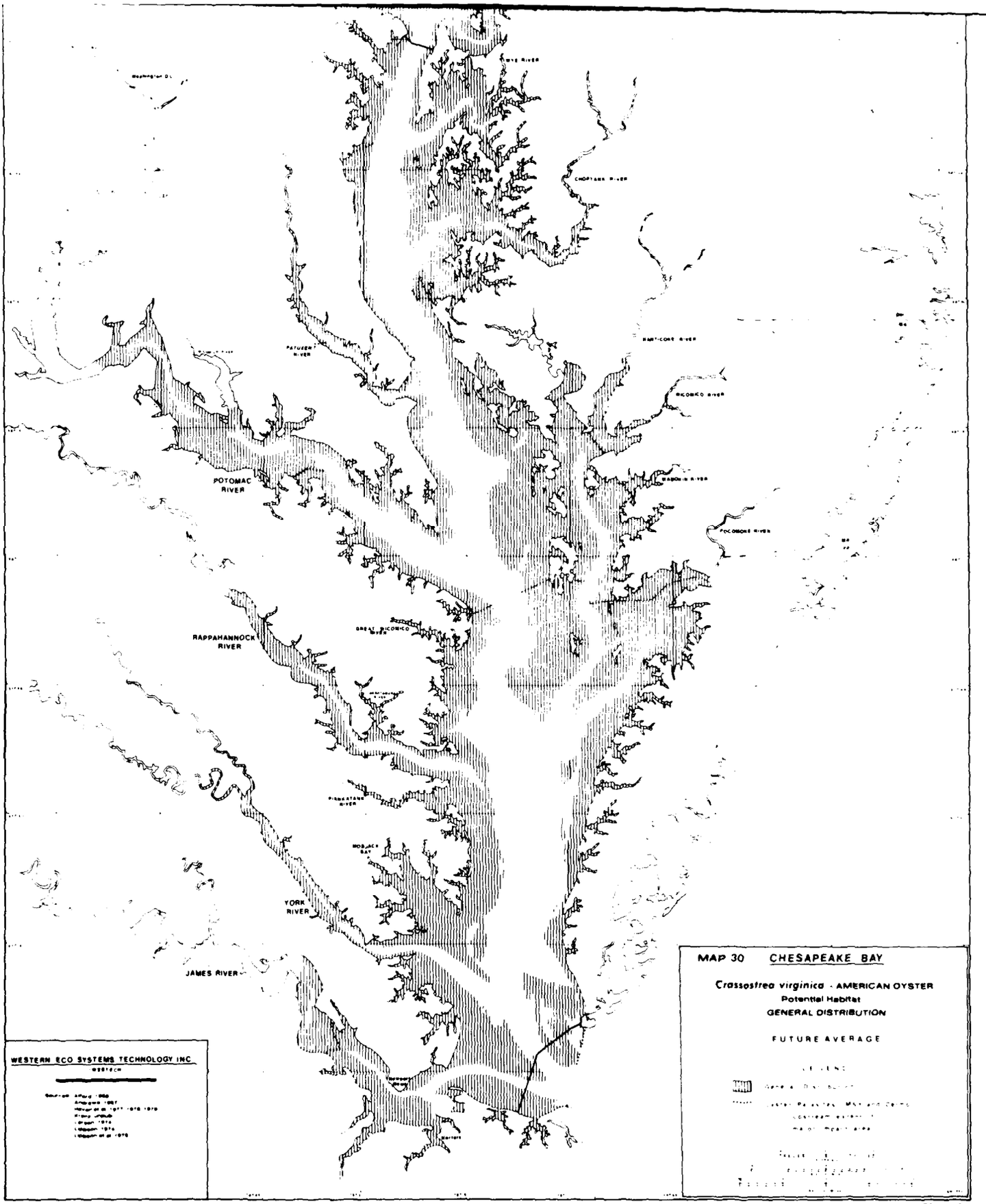
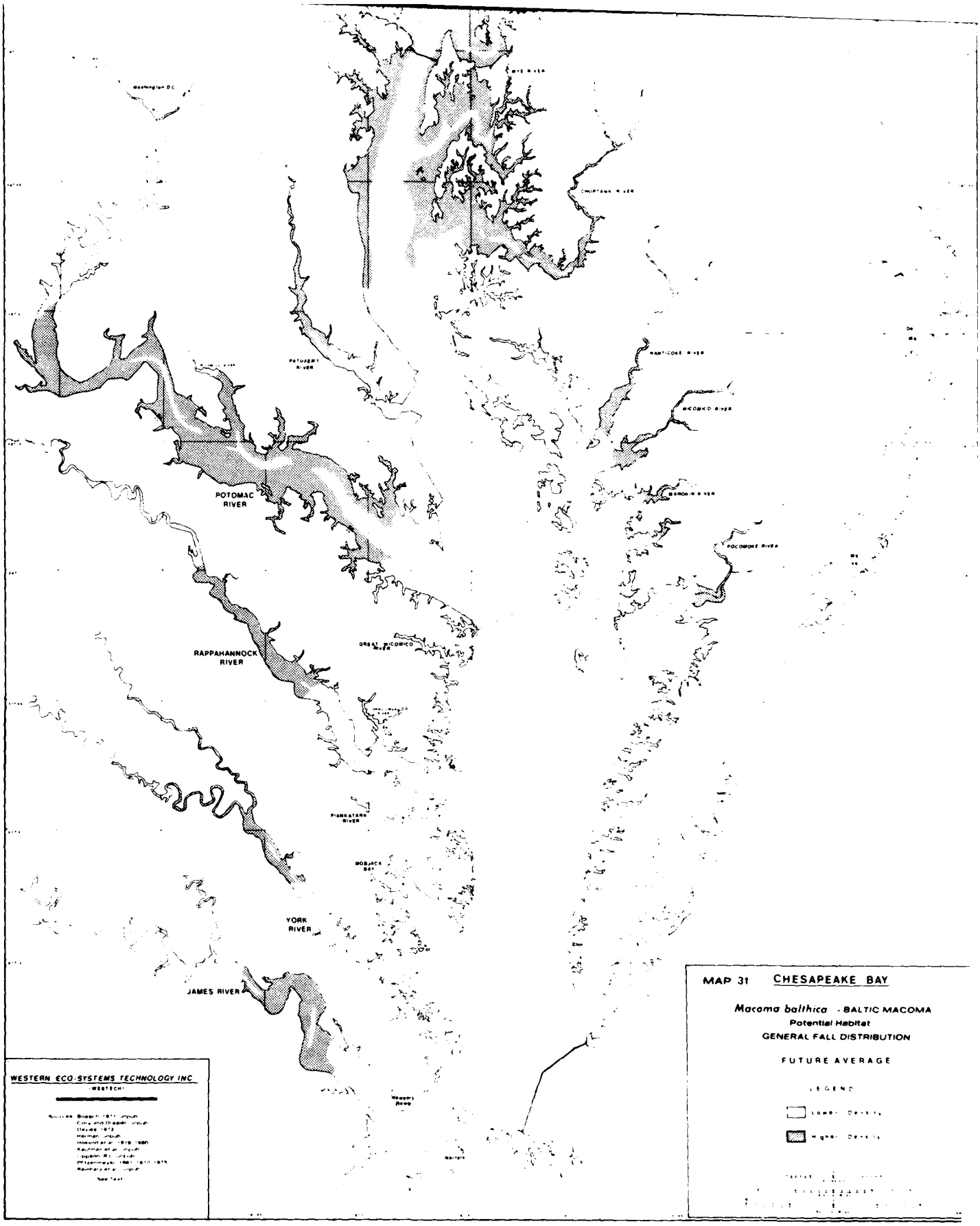
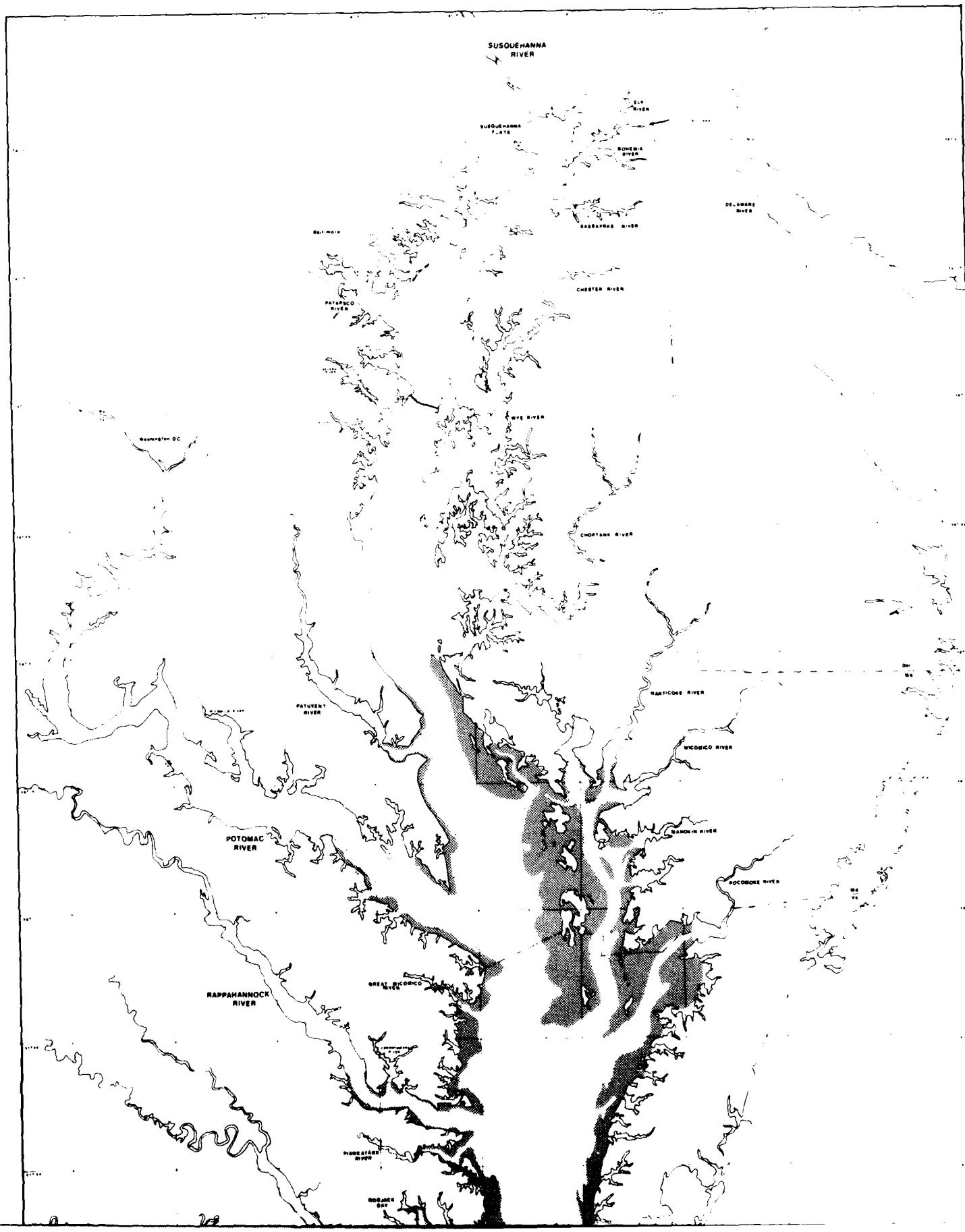

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
WESTERN ECO SYSTEMS TECHNOLOGY INC.
MAP 30 CHESAPEAKE BAY
Crassostrea virginica - AMERICAN OYSTER
Potential Habitat
GENERAL DISTRIBUTION
FUTURE AVERAGE

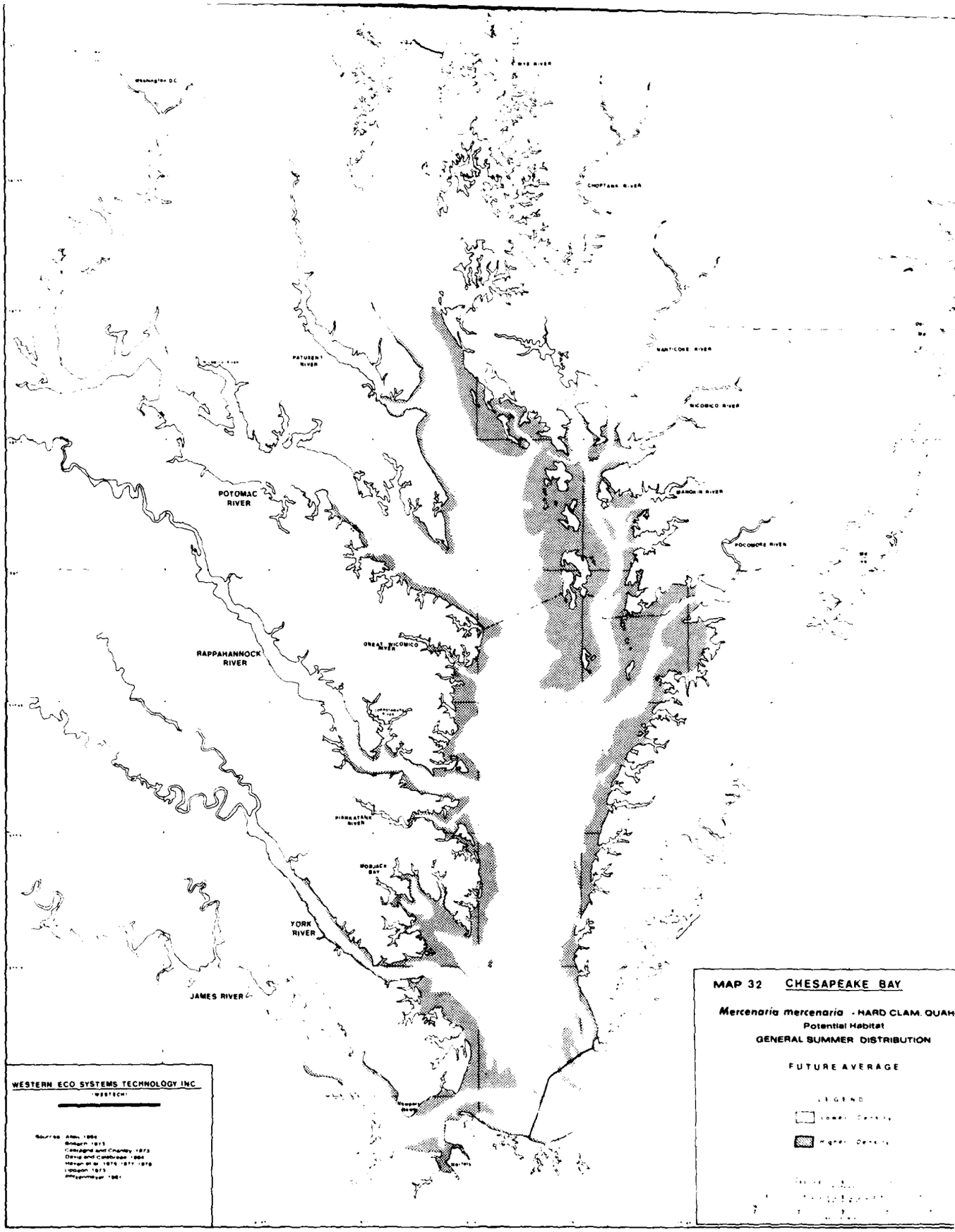
Plate 62

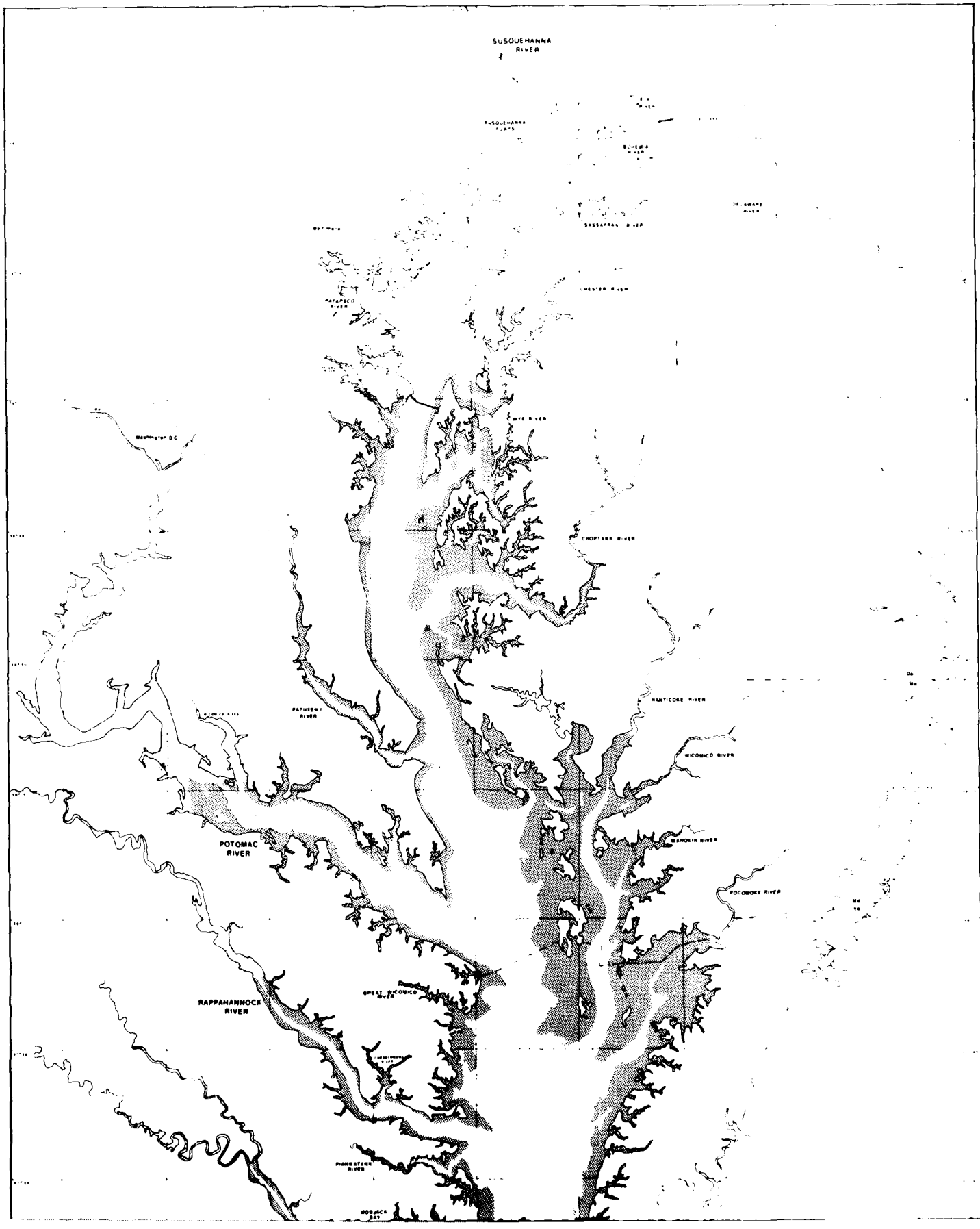

SUSQUEHANNA RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY INC.
MAP 31 CHESAPEAKE BAY
Macoma balthica - BALTIC MACOMA
Potential Habitat
GENERAL FALL DISTRIBUTION
FUTURE AVERAGE
LEGEND

Plate


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
MYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
TANGIER SOUND


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 32 CHESAPEAKE BAY
Mercenaria mercenaria - HARD CLAM, QUAHC
Potential Habitat
GENERAL SUMMER DISTRIBUTION
FUTURE AVERAGE
LEGEND
WESTERN ECO SYSTEMS TECHNOLOGY INC.
(WESTECH)


SUSQUEHANNA RIVER
Washington DC
POTOMAC RIVER
RAPPAHANNOCK RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
CHESTER RIVER
PATAPSCO RIVER
SASSAFRAS RIVER
PIANKATANK RIVER
MOBJACK BAY

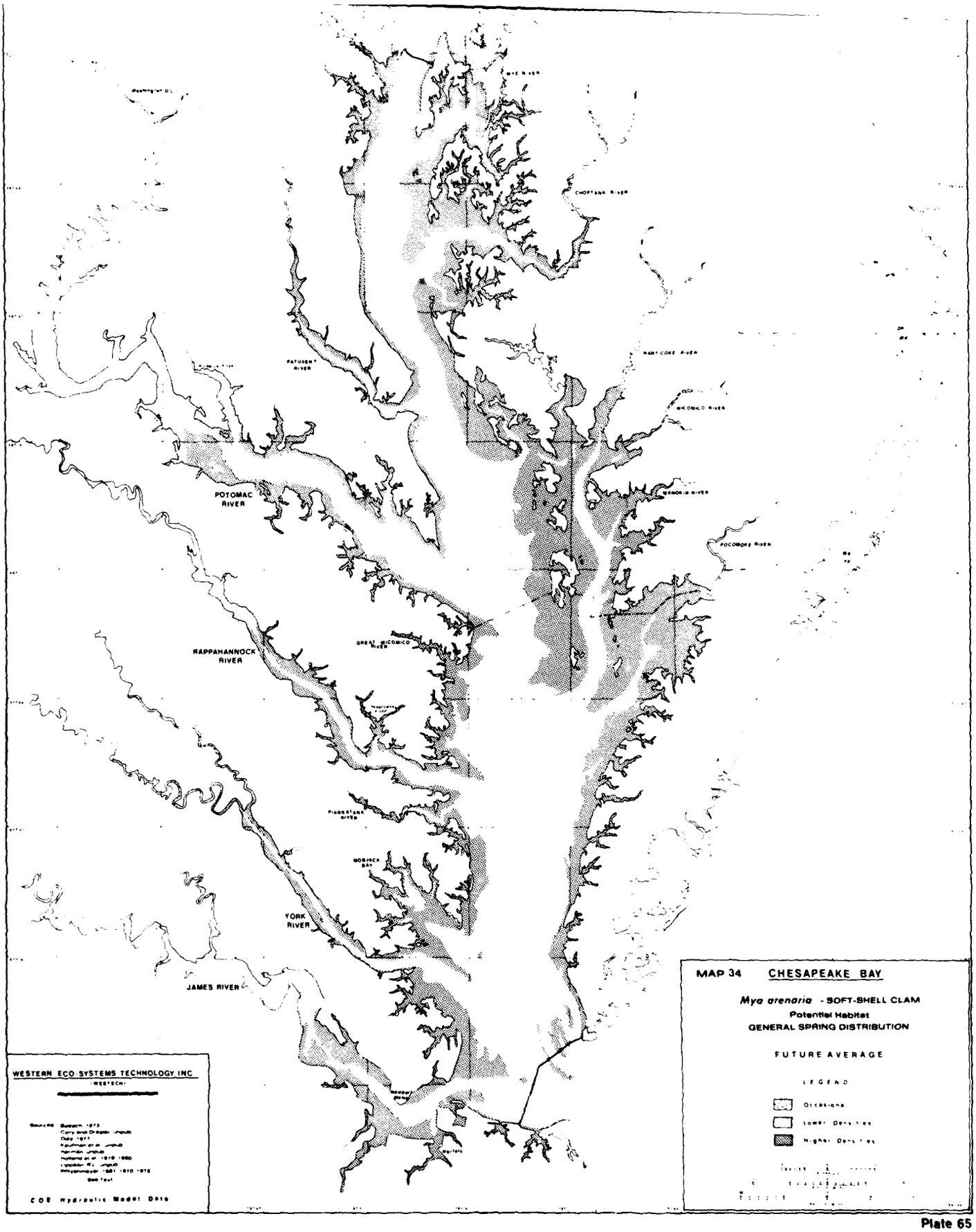
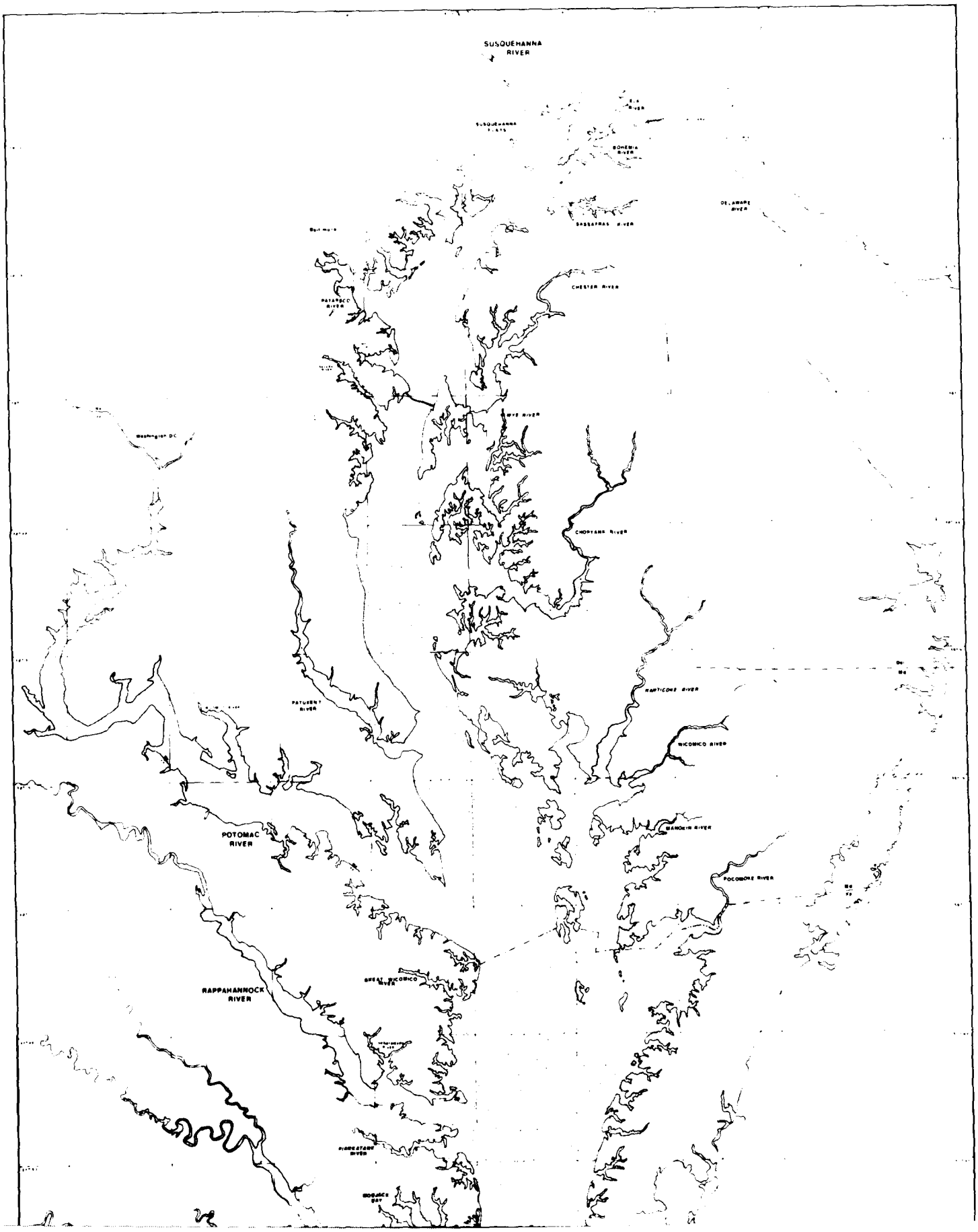

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 34 CHESAPEAKE BAY
Mya arenaria - SOFT-SHELL CLAM
Potential Habitat
GENERAL SPRING DISTRIBUTION
FUTURE AVERAGE
LEGEND
WESTERN ECO SYSTEMS TECHNOLOGY INC
COE Hydraulic Model Data

Plate 65


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
BALTIMORE
SASSAFRAS RIVER
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
WASHINGTON DC
CHOPTANK RIVER
PATUXENT RIVER
HANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
MOBJACK BAY

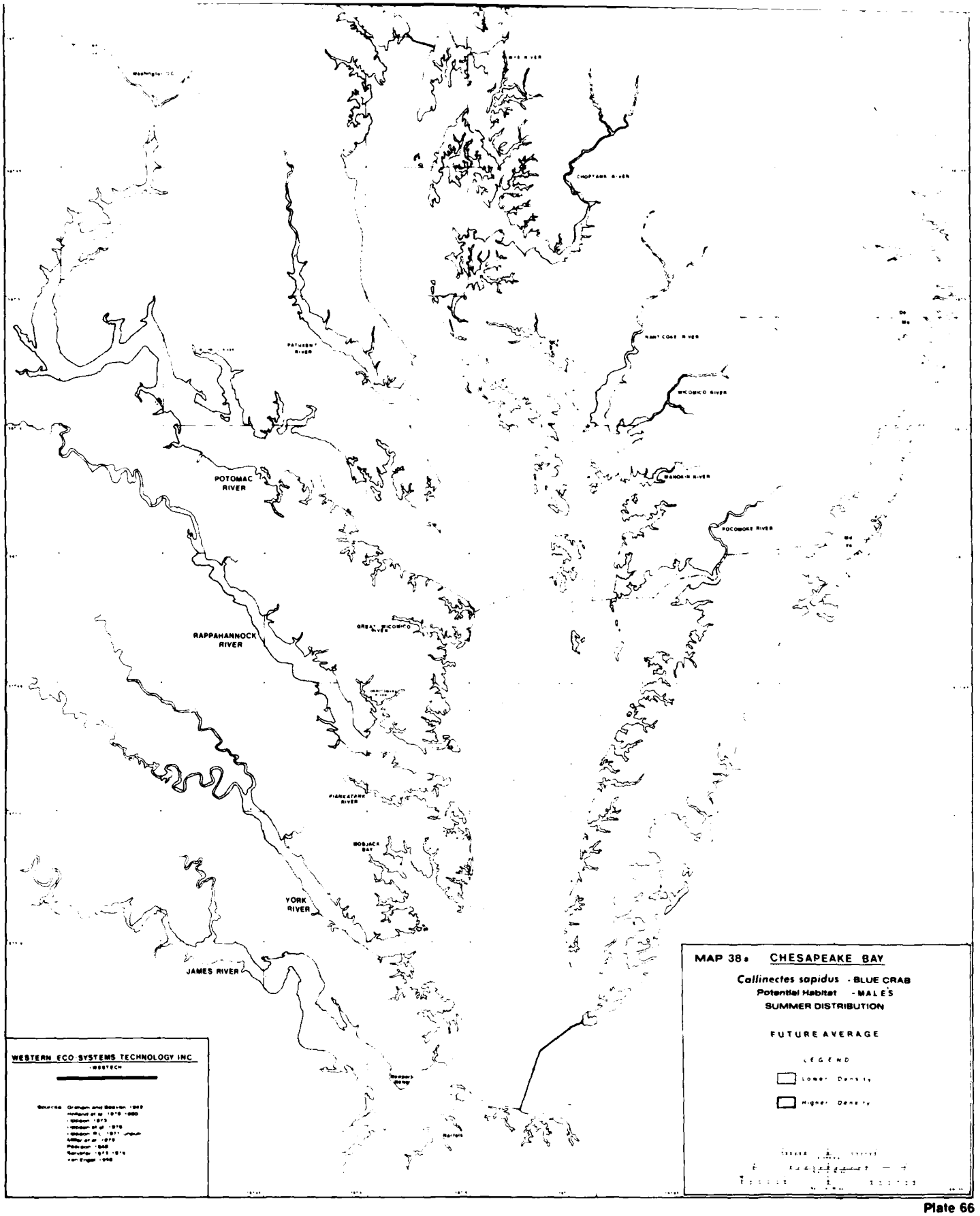

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
POCOMOKE RIVER
WESTERN ECO SYSTEMS TECHNOLOGY INC
MAP 38a CHESAPEAKE BAY
Callinectes sapidus - BLUE CRAB
Potential Habitat - MALES
SUMMER DISTRIBUTION
FUTURE AVERAGE
LEGEND
Lower Density
Higher Density

Plate 66


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
BALTIMORE
CHESTER RIVER
PATAPSCO RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

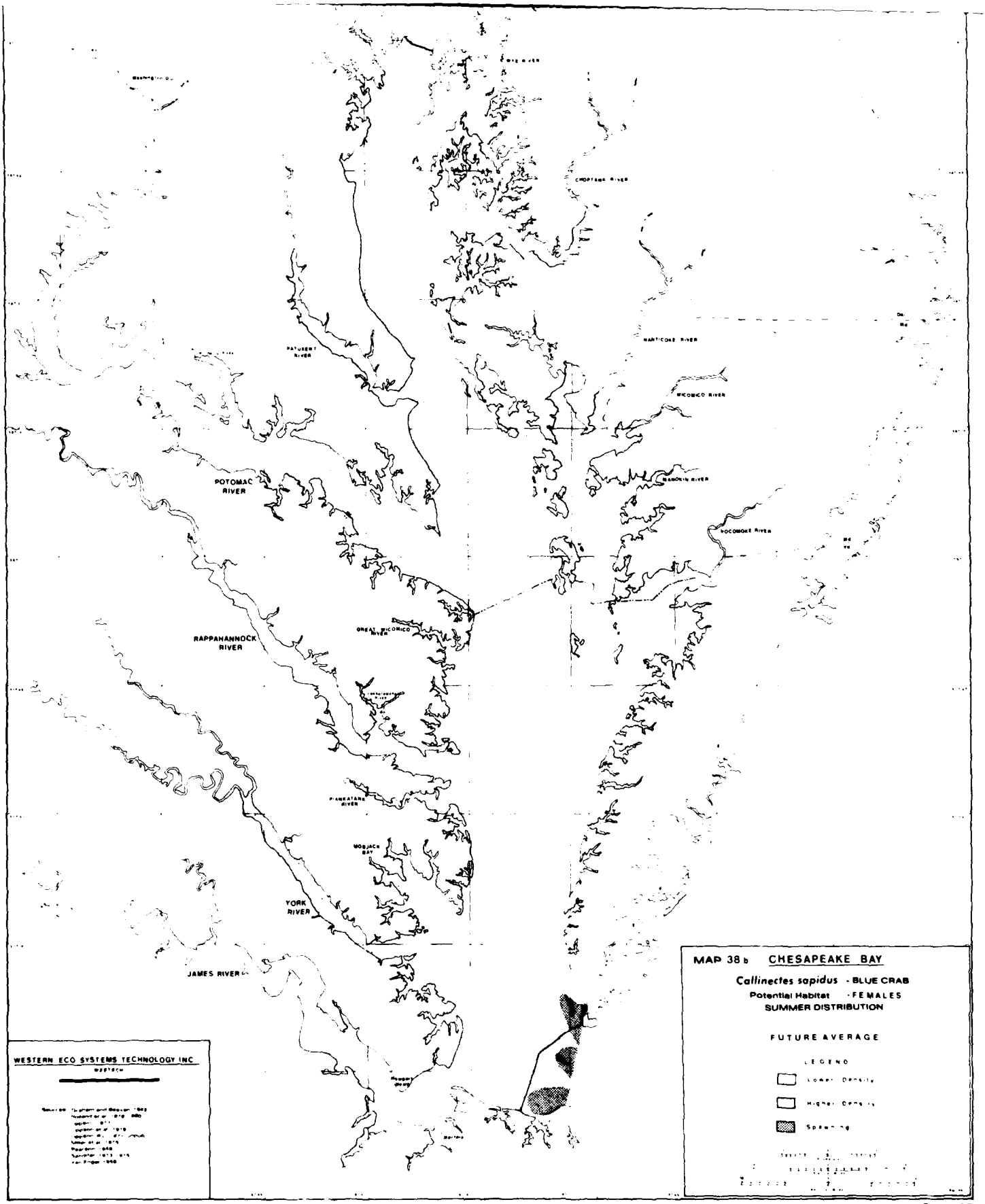
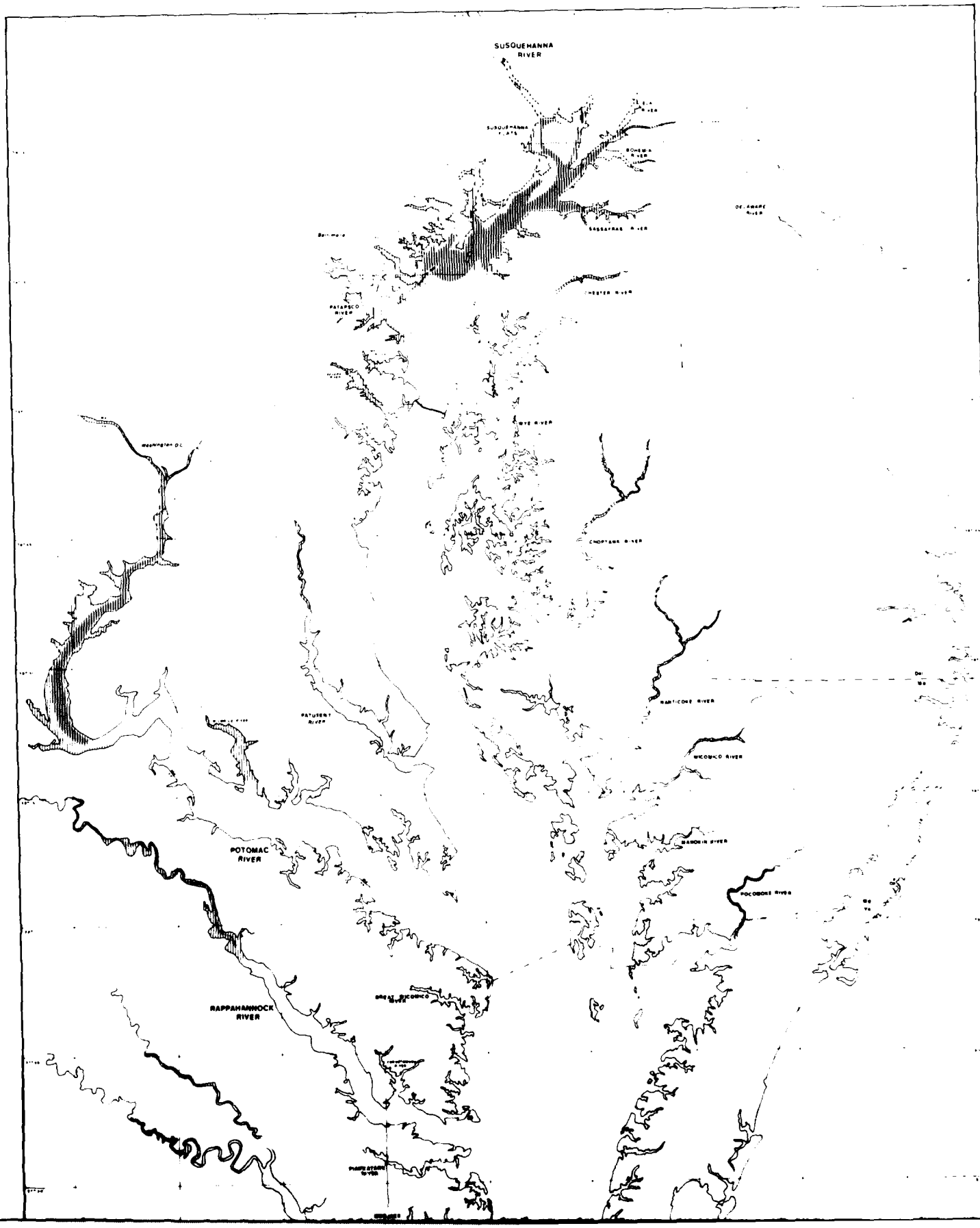

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 38 b CHESAPEAKE BAY
Callinectes sapidus - BLUE CRAB
Potential Habitat - FEMALES
SUMMER DISTRIBUTION
FUTURE AVERAGE
LEGEND
Lower Density
Higher Density
Spawning
WESTERN ECO SYSTEMS TECHNOLOGY INC

Plate 67


SUSQUEHANNA RIVER
SUSQUEHANNA STATE
BOHEMIA RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
RAMTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
POCOMOKE RIVER

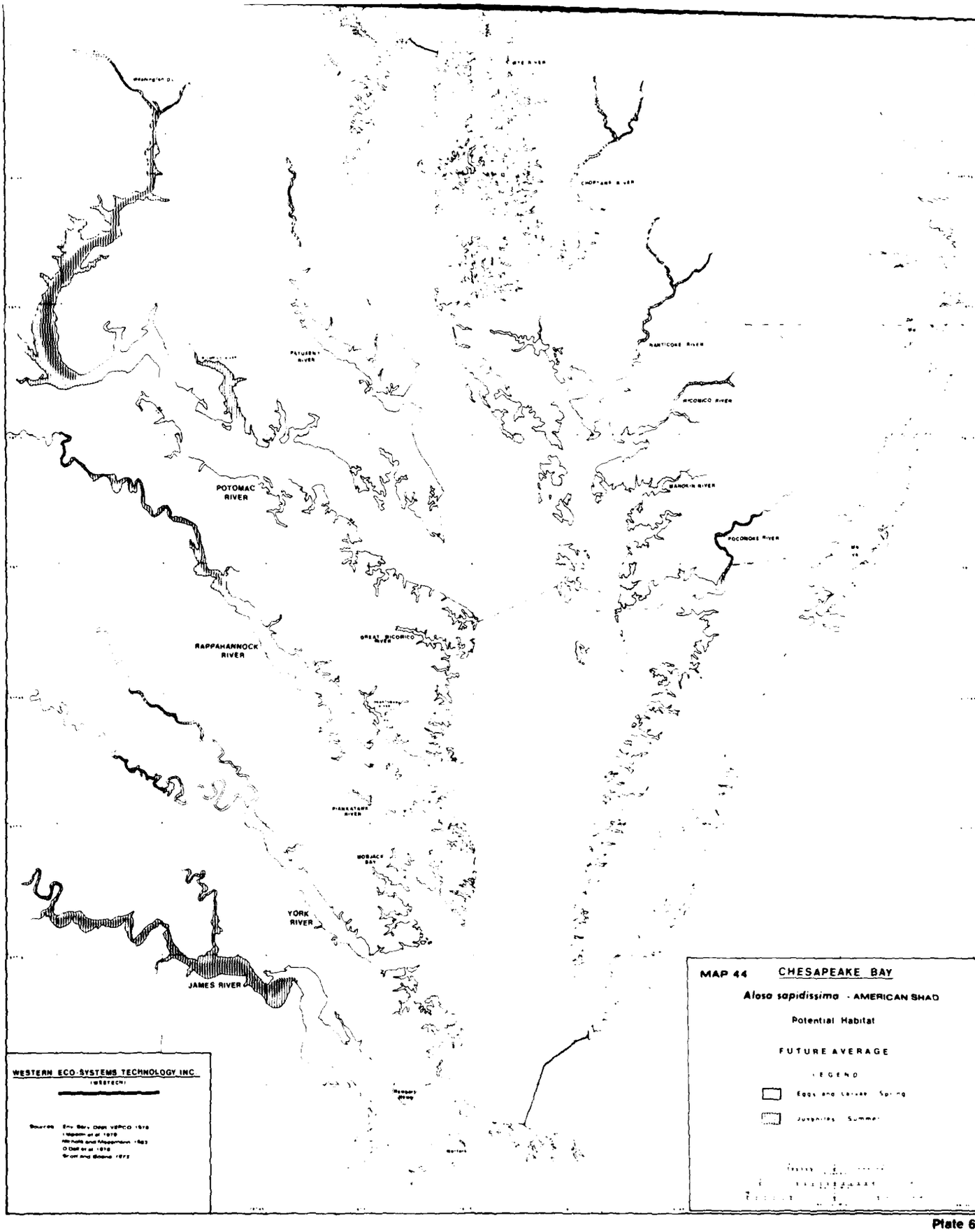
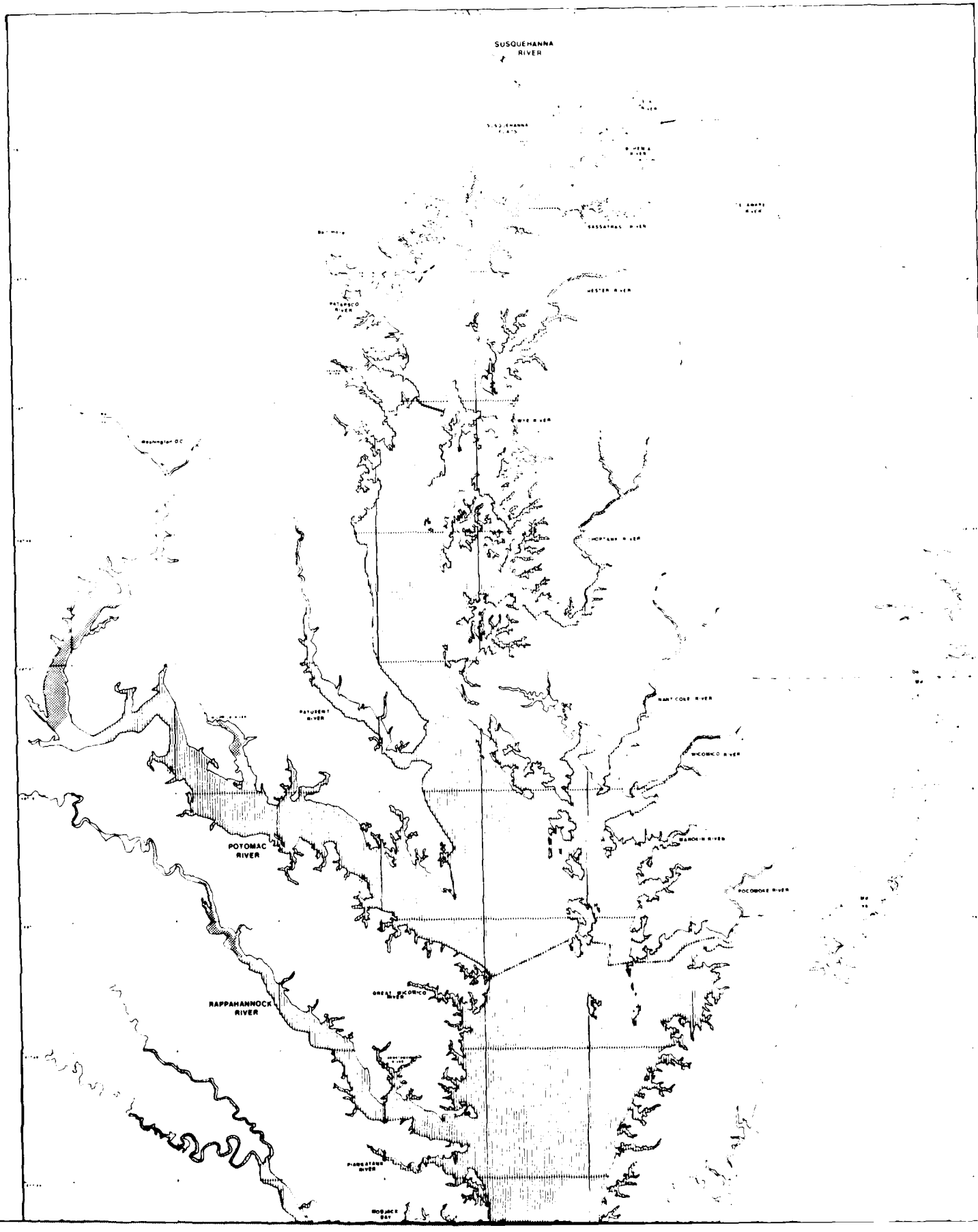

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO River
MANOKIN RIVER
POCOMOKE RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
MAP 44 CHESAPEAKE BAY
Alosa sapidissima - AMERICAN SHAD
Potential Habitat
FUTURE AVERAGE
LEGEND
Eggs and Larvae Spring
Juveniles Summer

Plate 68


SUSQUEHANNA
RIVER
POTOMAC
RIVER
RAPPAHANNOCK
RIVER

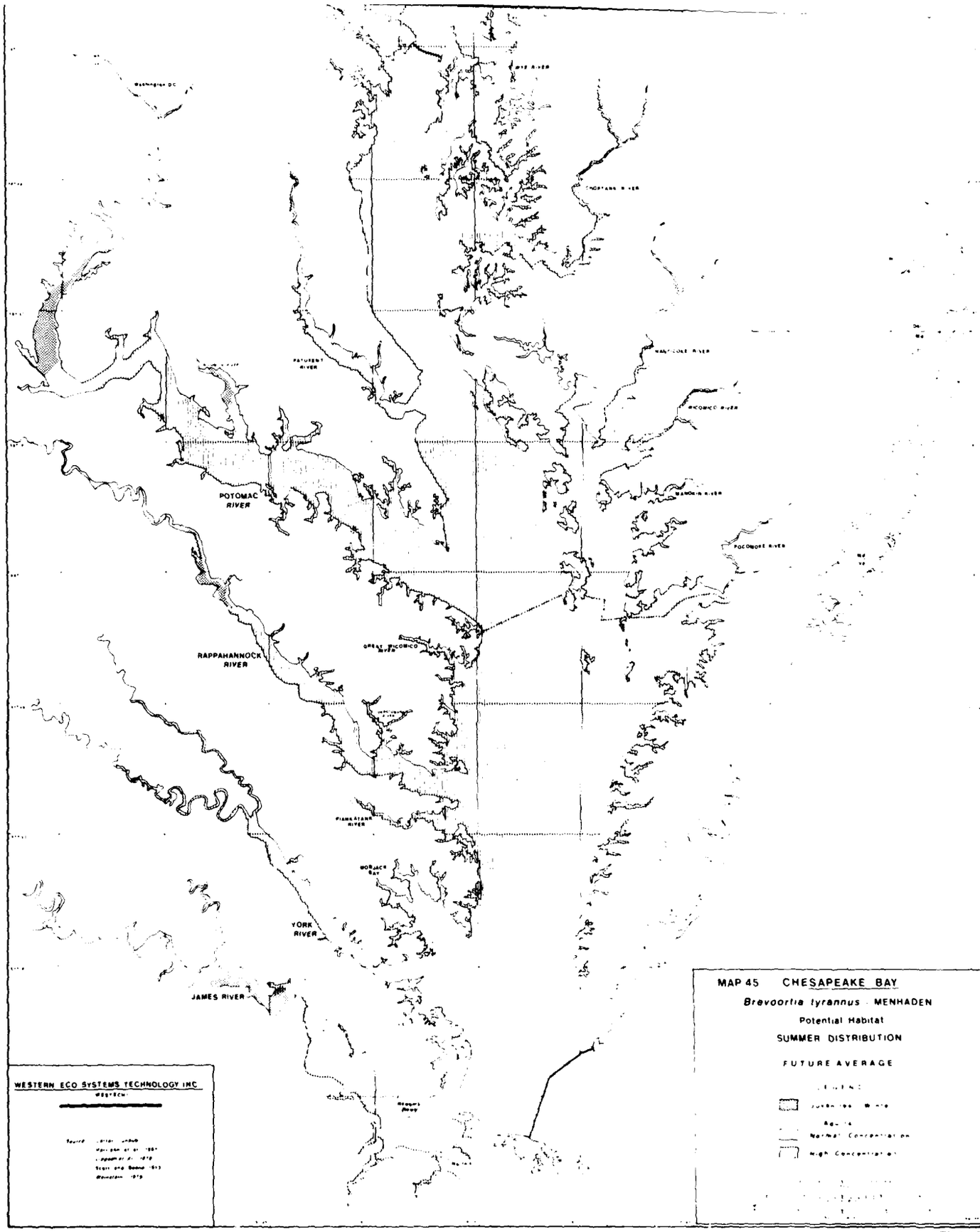
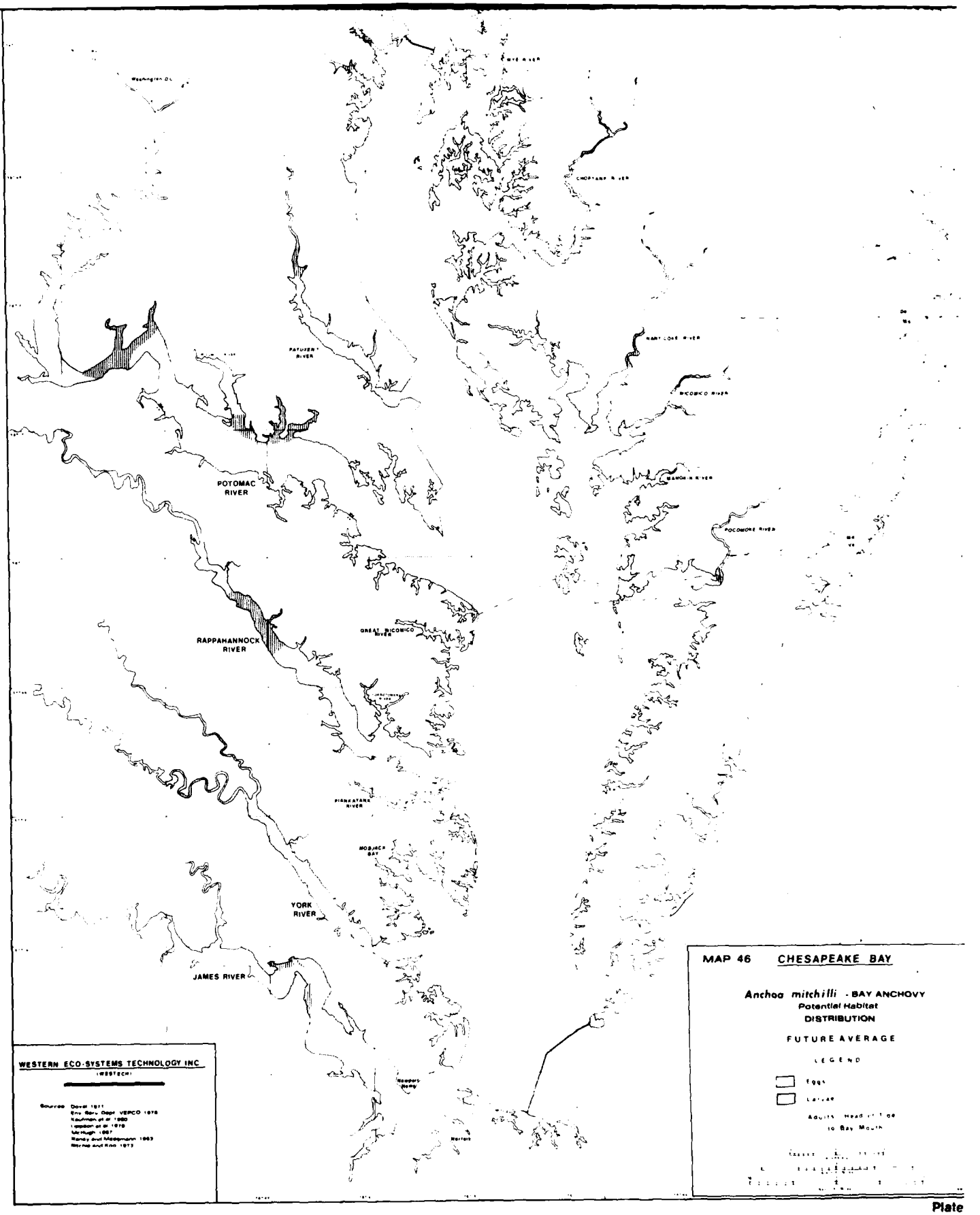
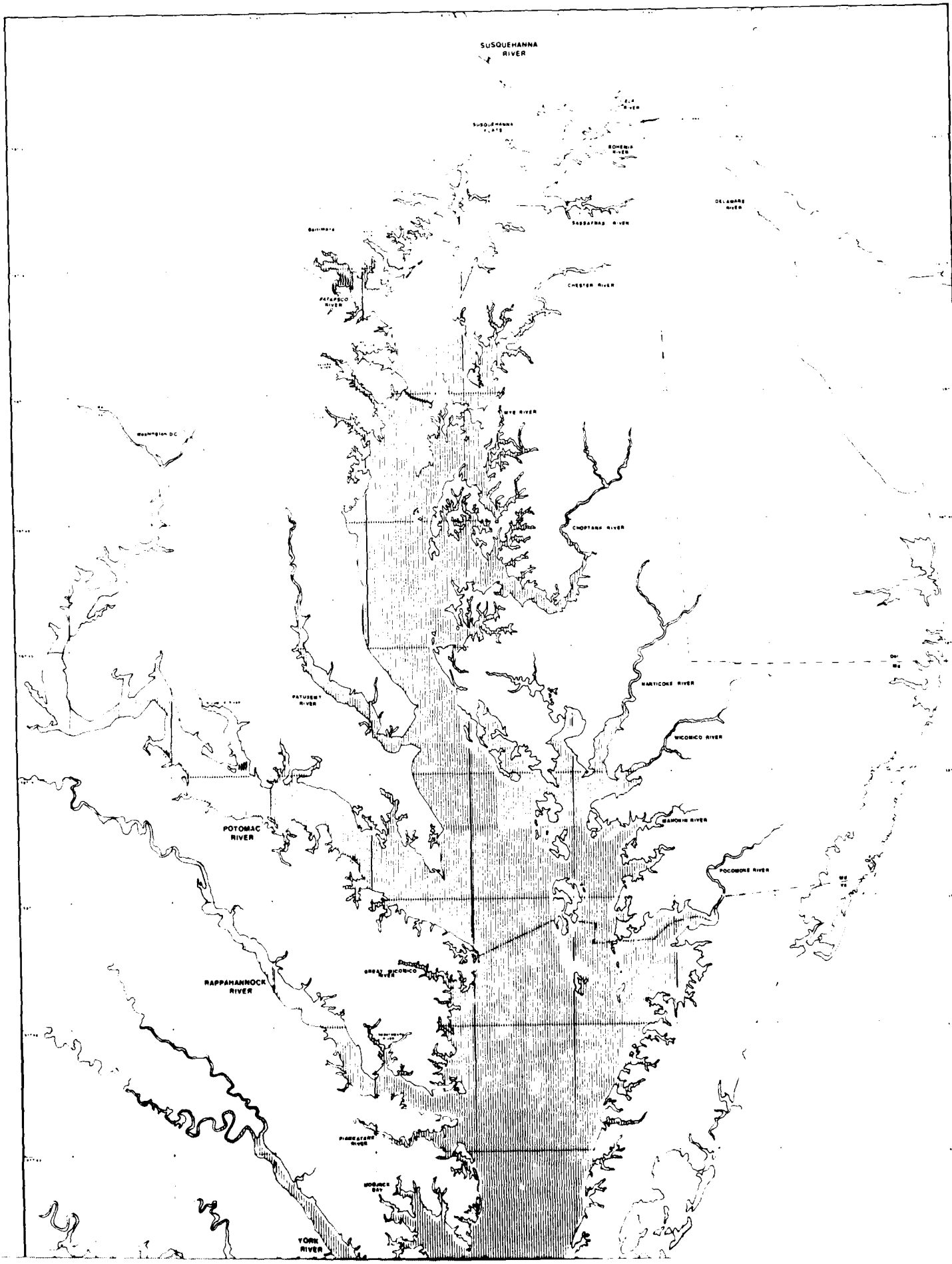

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
WESTERN ECO SYSTEMS TECHNOLOGY INC.
MAP 45 CHESAPEAKE BAY
Brevoortia tyrannus - MENHADEN
Potential Habitat
SUMMER DISTRIBUTION
FUTURE AVERAGE

Plate 69


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
Washington DC
PATUXENT RIVER
MATTAPONI RIVER
MATTAPONI RIVER
PAMUNKEY RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
PIANKATANK RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
GREAT WICOMICO RIVER
POCOMOKE RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
MAP 46 CHESAPEAKE BAY
Anchoa mitchilli - BAY ANCHOVY
Potential Habitat
DISTRIBUTION
FUTURE AVERAGE
LEGEND
Eggs
Larvae
Adults Head of Tide to Bay Mouth

Plate


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
BALTIMORE
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
WASHINGTON DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
YORK RIVER

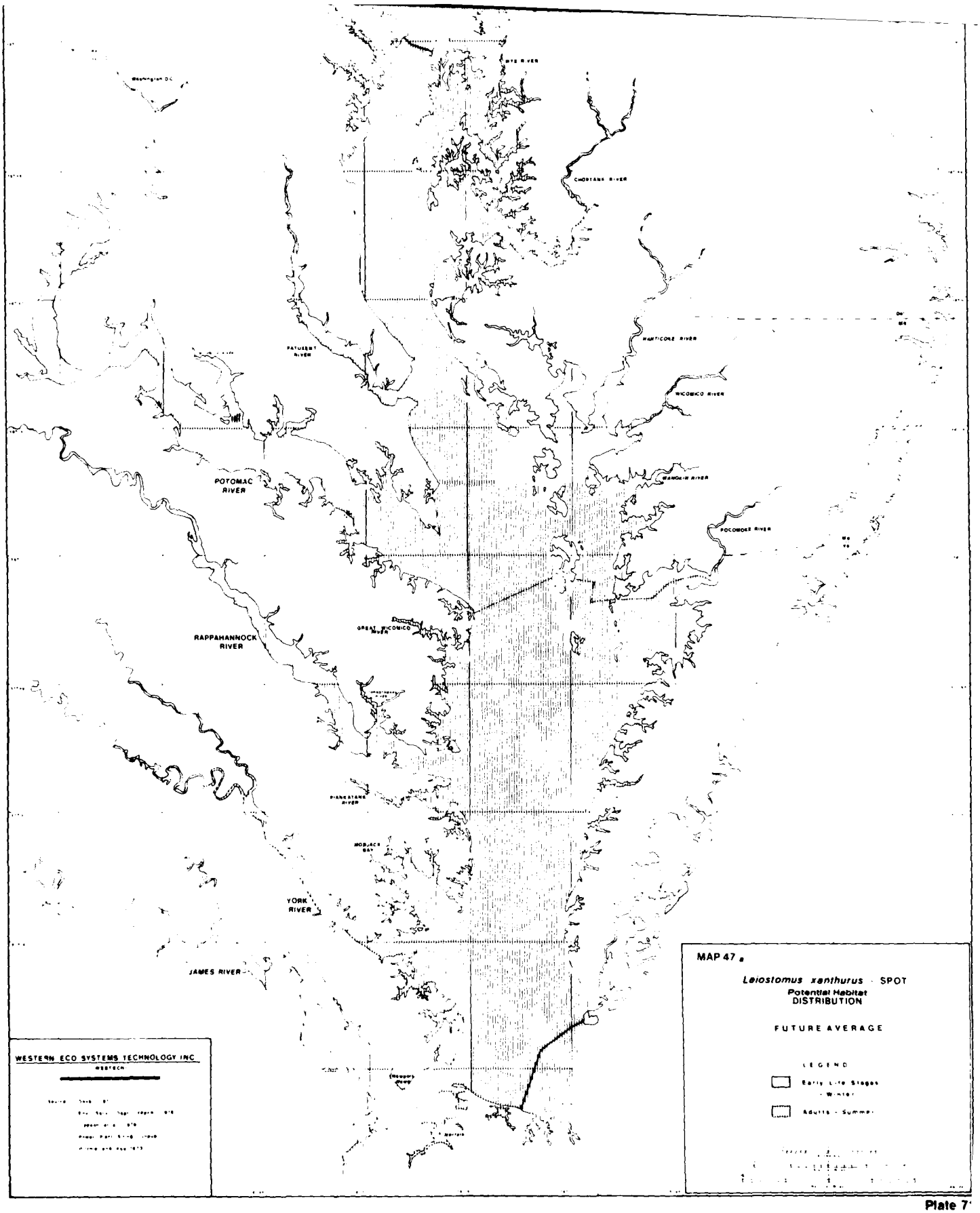
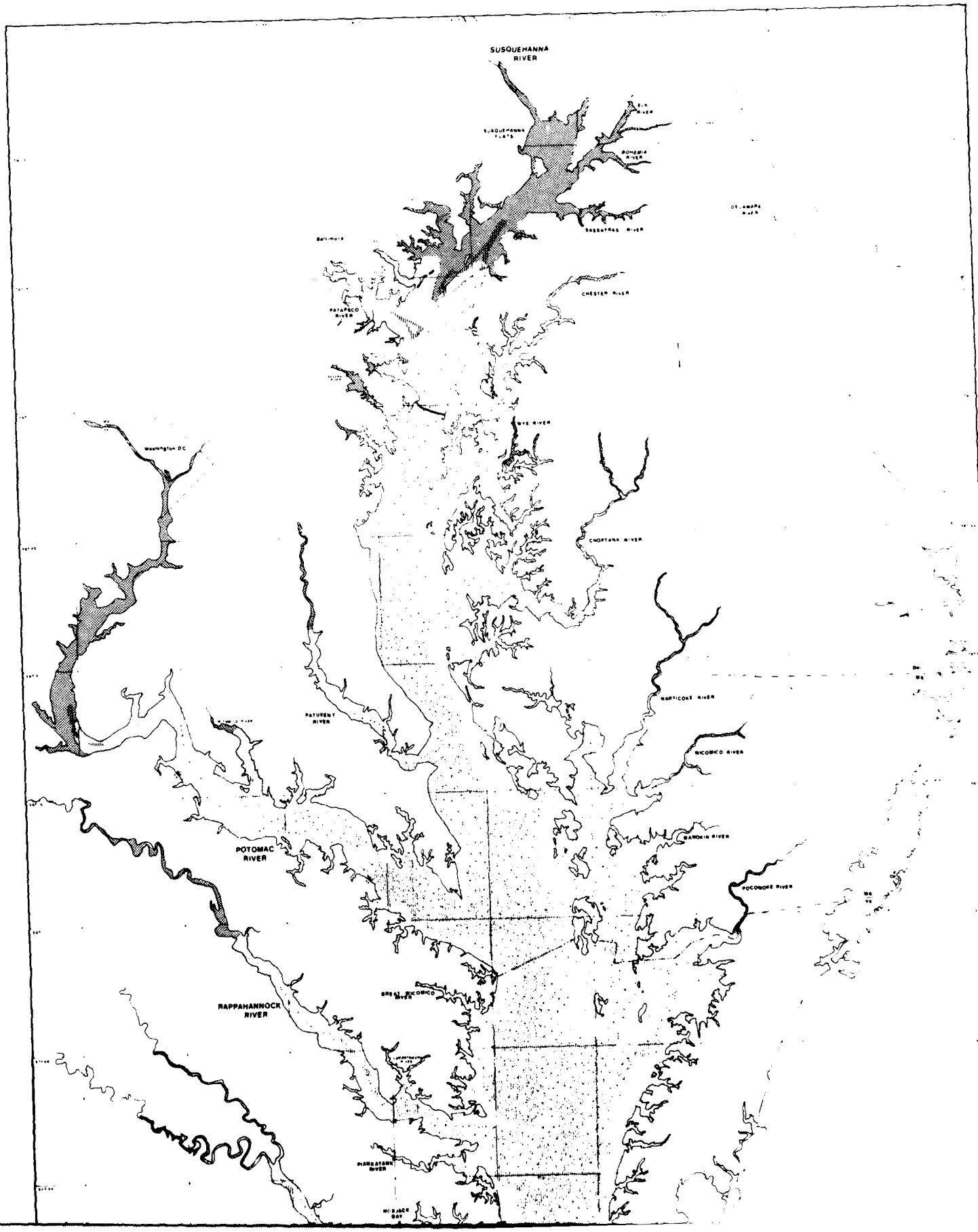

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
MATTAPONI RIVER
PIANKATANK RIVER
MOBJACK BAY
GREAT WICOMICO RIVER
WESTERN ECO SYSTEMS TECHNOLOGY INC.
MAP 47 a
Leiostomus xanthurus - SPOT
Potential Habitat
DISTRIBUTION
FUTURE AVERAGE
LEGEND
Early Life Stages - Winter
Adults - Summer

Plate 7


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
BALTIMORE
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
WASHINGTON DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
MOBJACK BAY

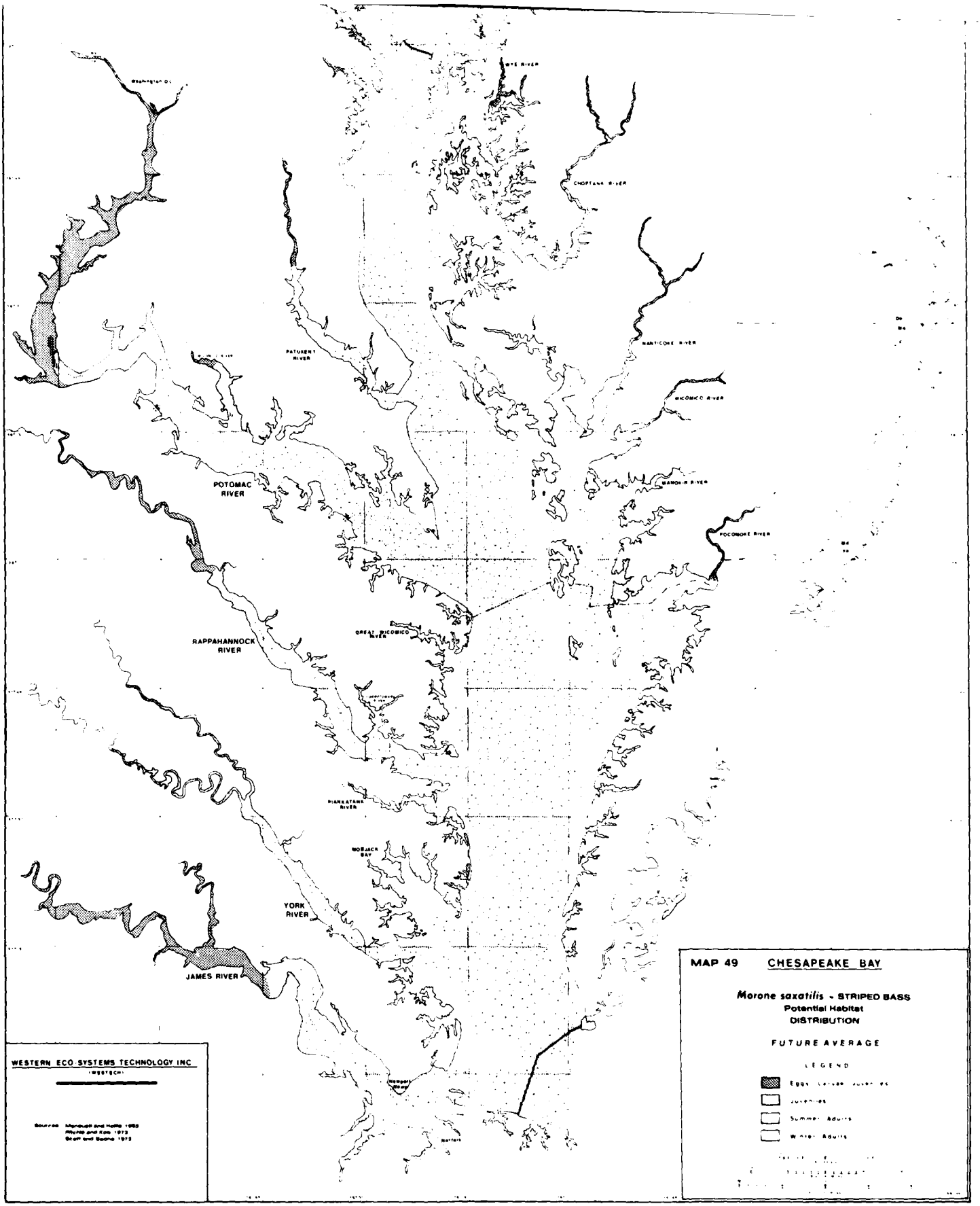

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 49 CHESAPEAKE BAY
Morone saxatilis - STRIPED BASS
Potential Habitat
DISTRIBUTION
FUTURE AVERAGE
LEGEND
Juveniles
Summer Adults
WESTERN ECO-SYSTEMS TECHNOLOGY INC

Plate 72


SUSQUEHANNA RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER

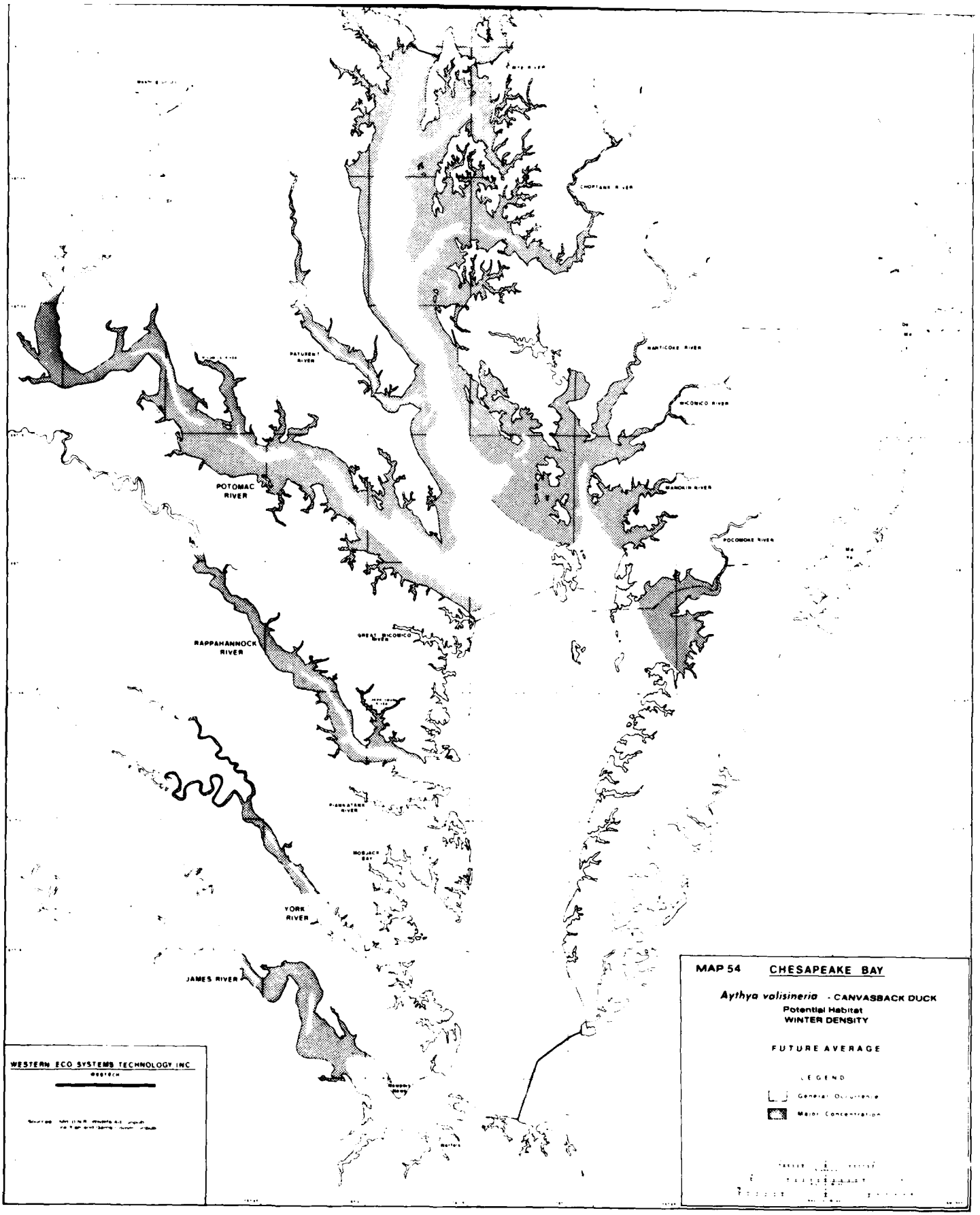
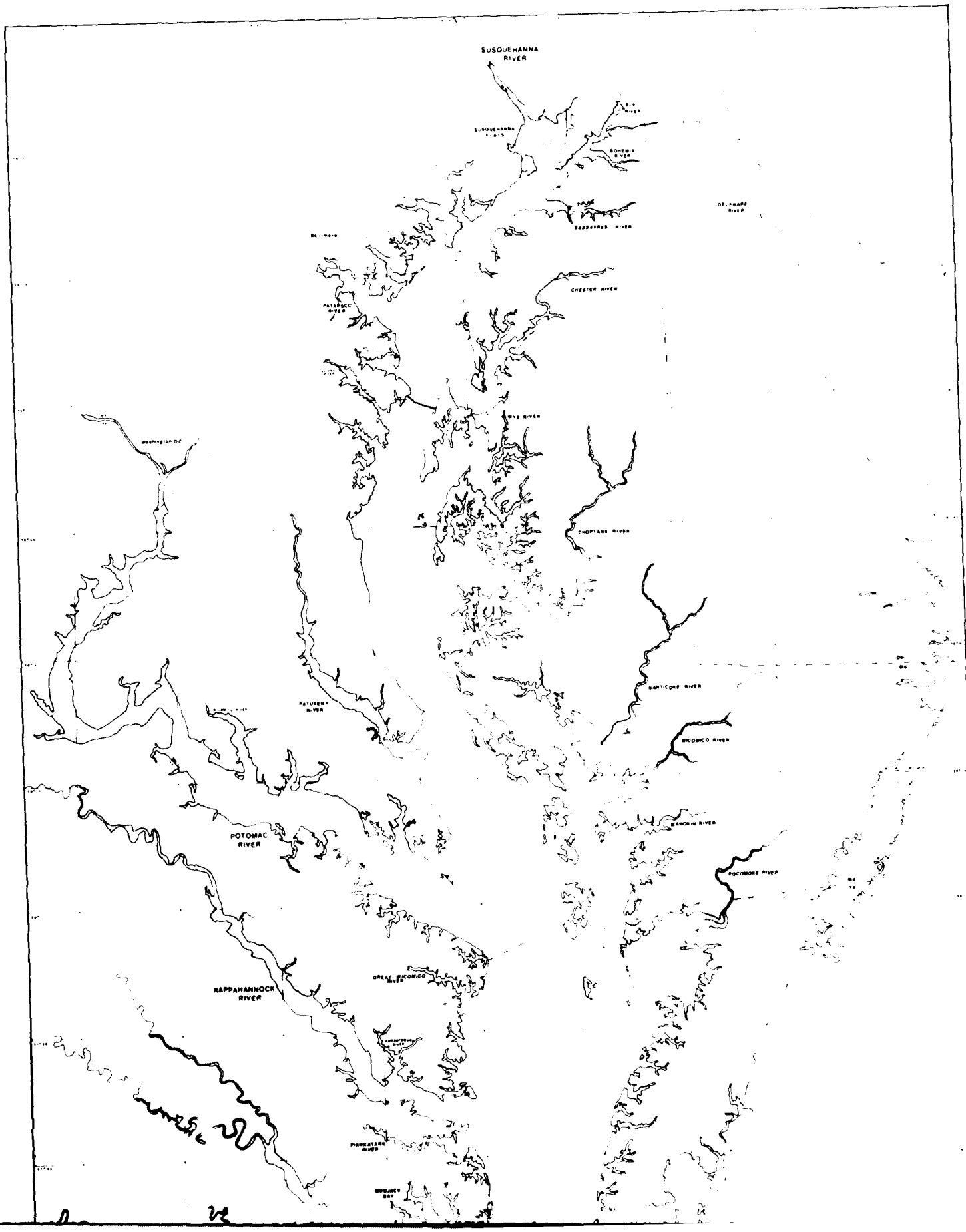

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 54 CHESAPEAKE BAY
Aythya valisineria - CANVASBACK DUCK
Potential Habitat
WINTER DENSITY
FUTURE AVERAGE
LEGEND
WESTERN ECO SYSTEMS TECHNOLOGY INC

Plate 73


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
Baltimore
Washington DC
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY

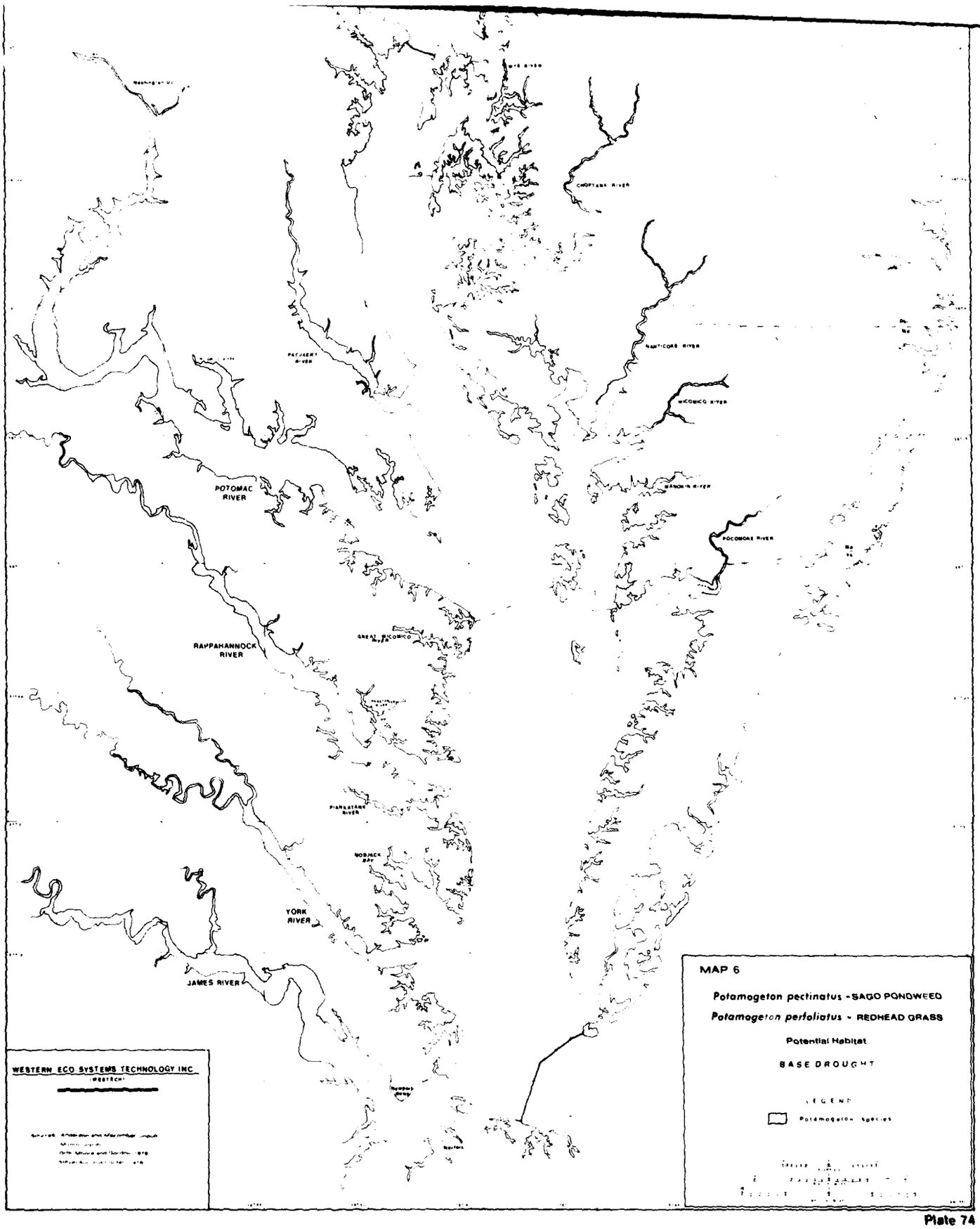

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
WESTERN ECO SYSTEMS TECHNOLOGY INC.
MAP 6
Potamogeton pectinatus - SAGO PONDWEED
Potamogeton perfoliatus - REDHEAD GRASS
Potential Habitat
BASE DROUGHT
LEGEND
Potamogeton species

Plate 74


SUSQUEHANNA RIVER
BOHEMIA RIVER
DELAWARE RIVER
CHESTER RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
PANUNKEY RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

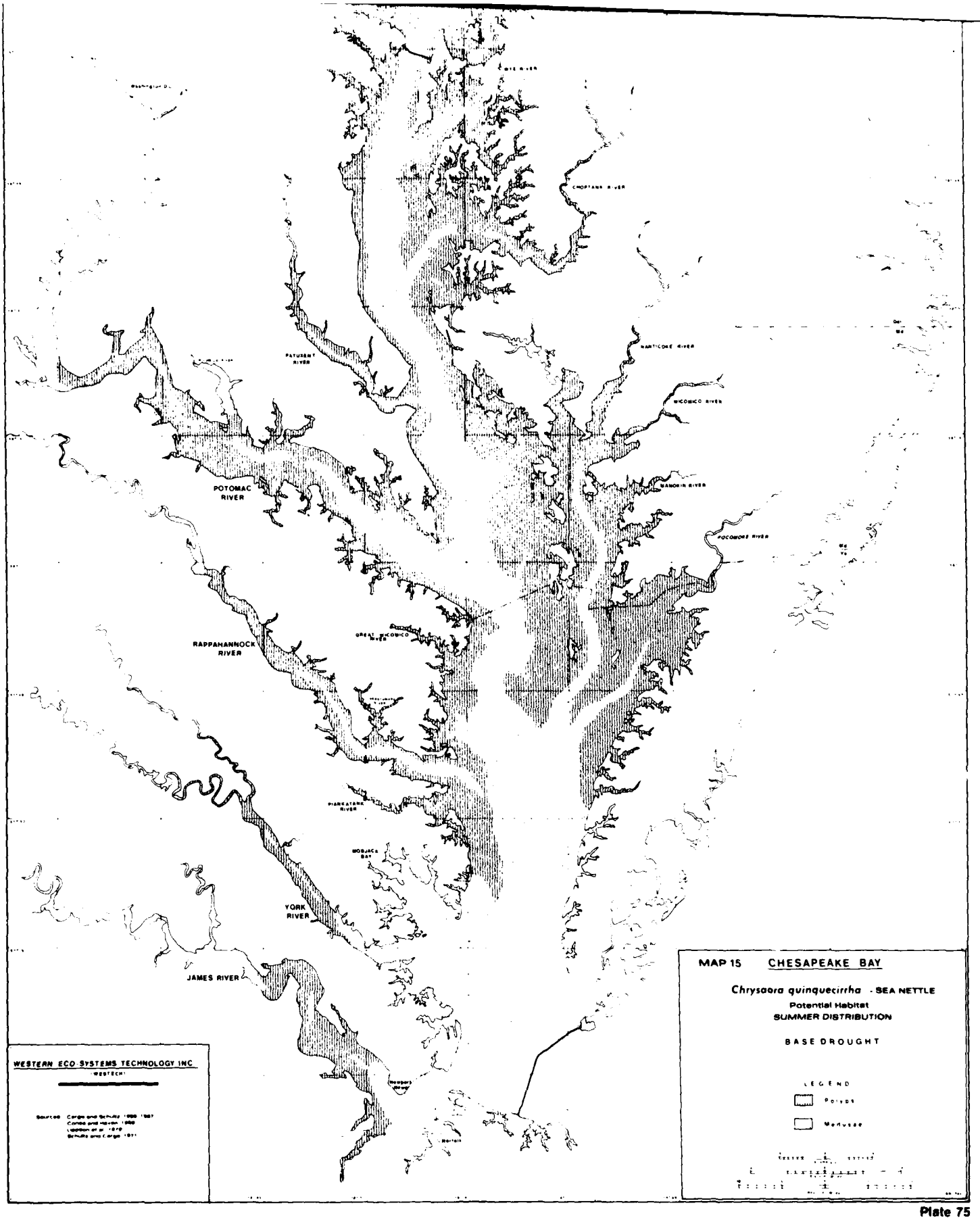
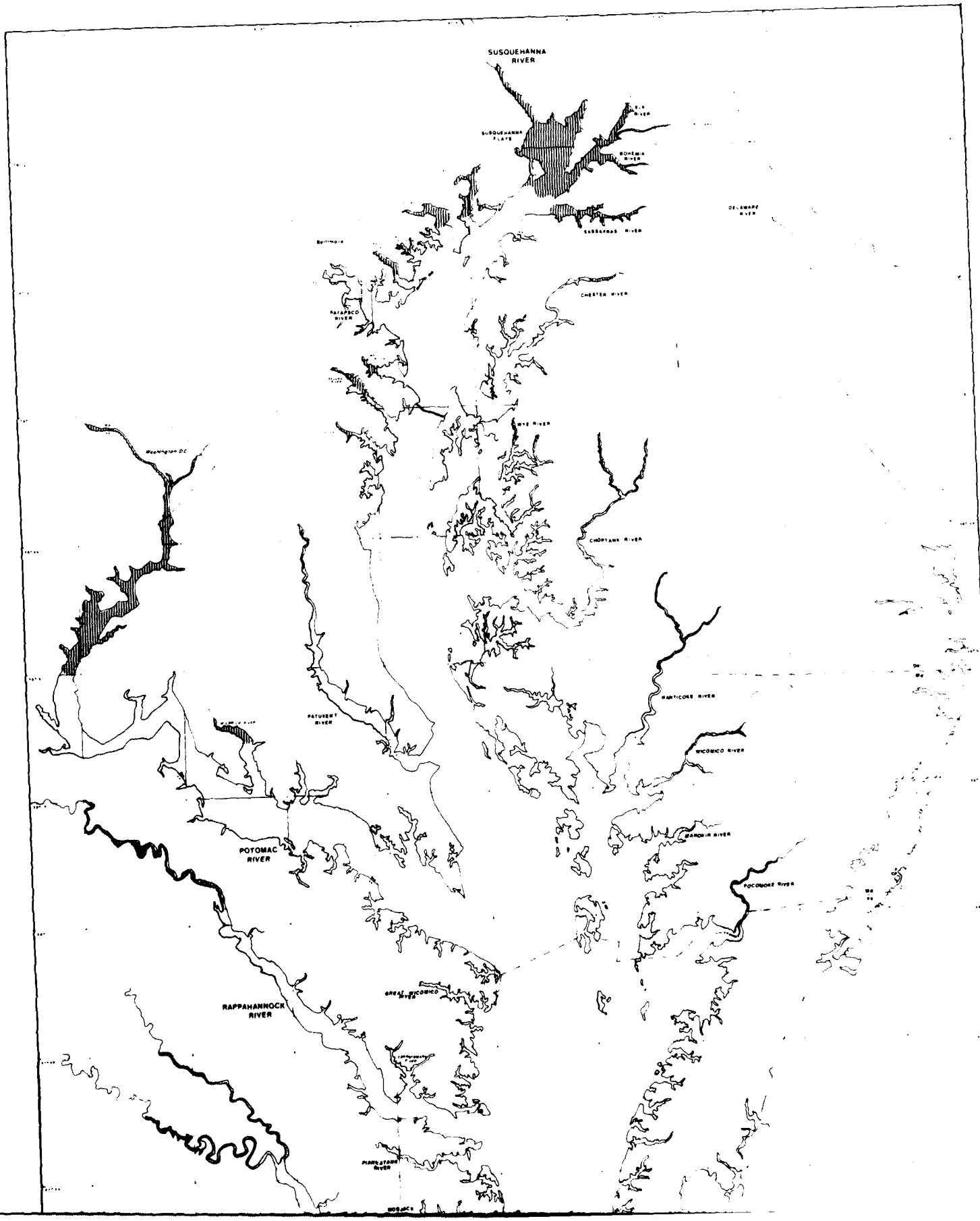

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
MOBJACK BAY
WESTERN ECO SYSTEMS TECHNOLOGY INC
WESTECH
MAP 15 CHESAPEAKE BAY
Chrysaora quinquecirrha - SEA NETTLE
Potential Habitat
SUMMER DISTRIBUTION
BASE DROUGHT
LEGEND
Polyps
Medusae

Plate 75


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
MAGOTHY RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

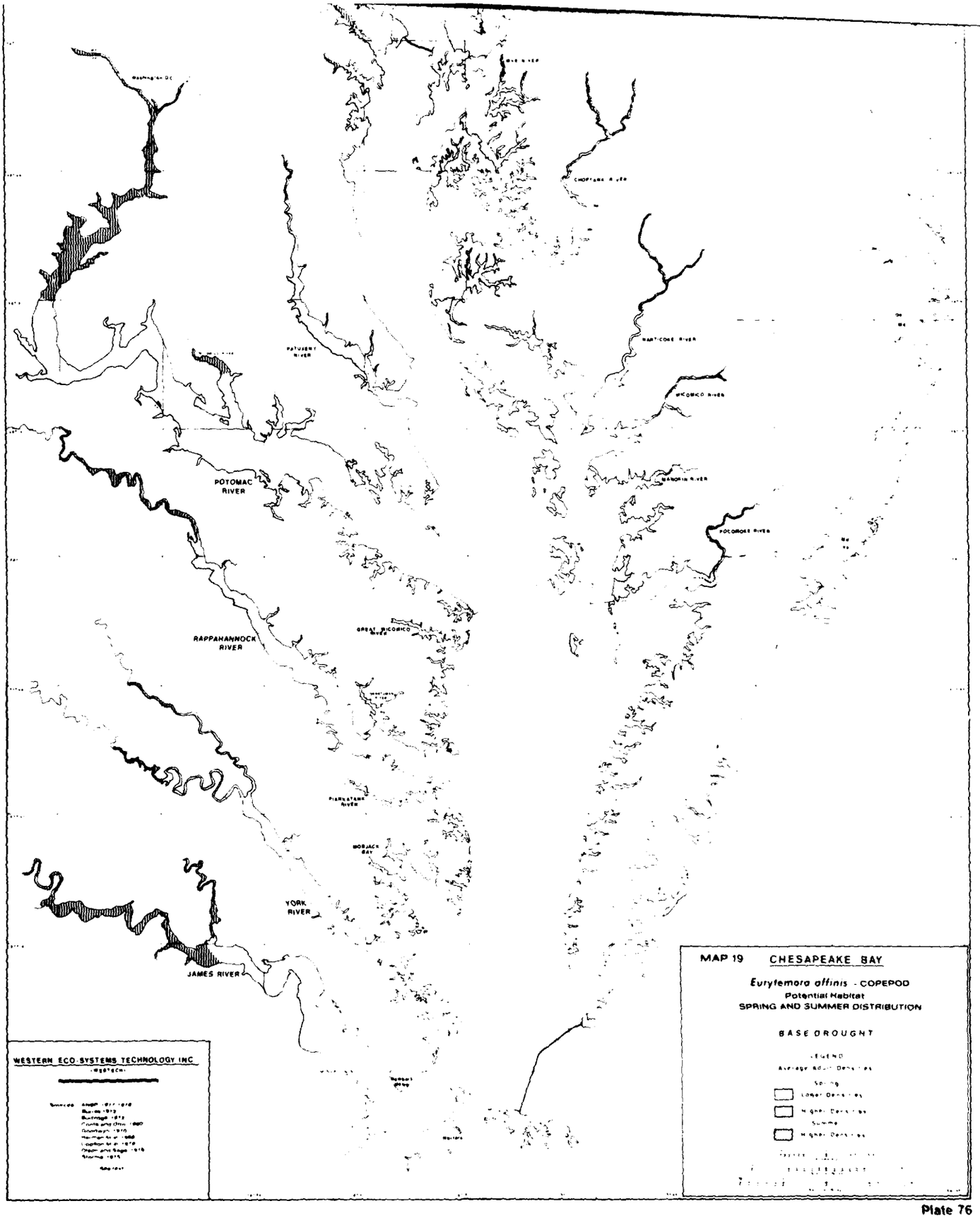
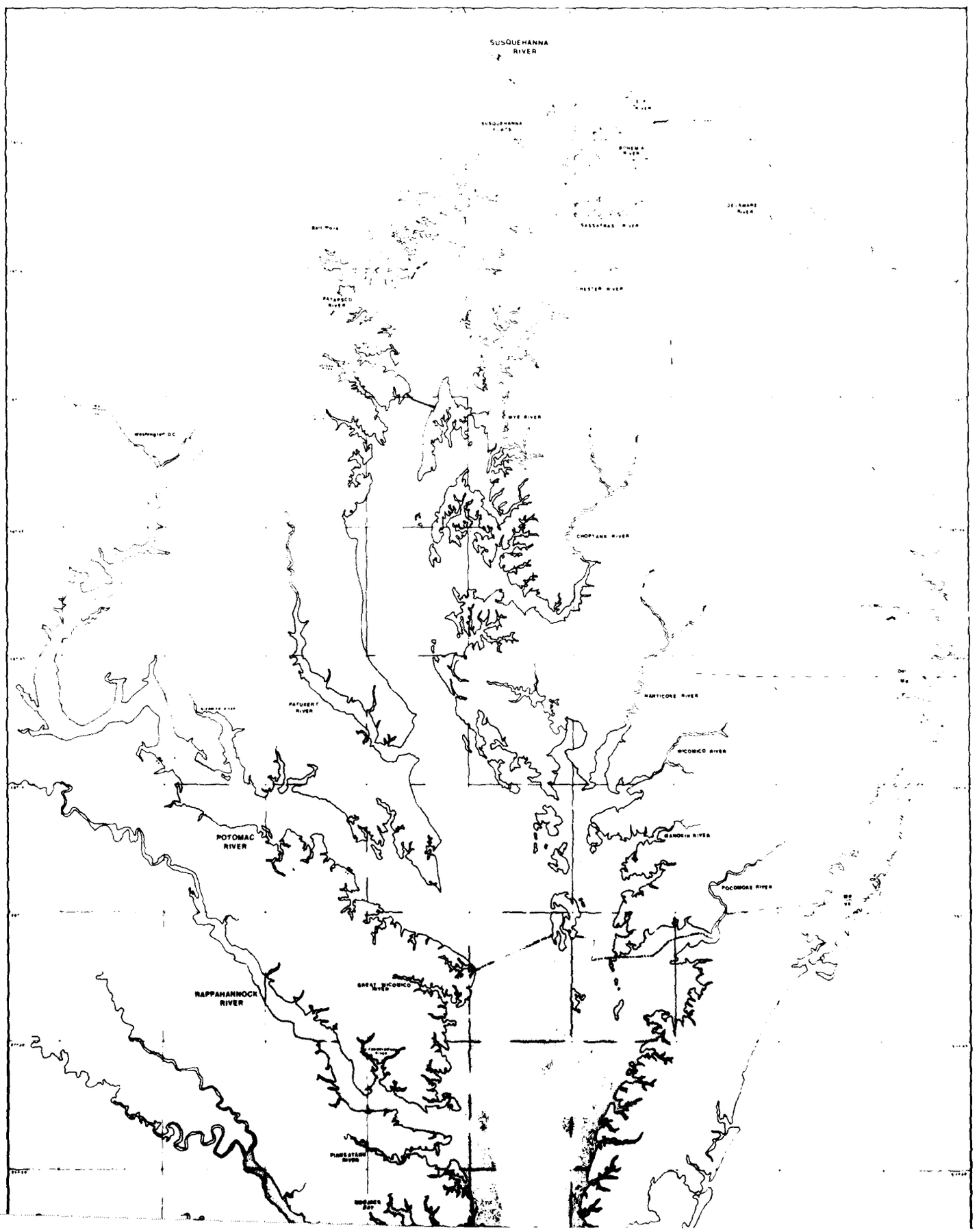

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 19 CHESAPEAKE BAY
Eurytemora affinis - COPEPOD
Potential Habitat
SPRING AND SUMMER DISTRIBUTION
BASE DROUGHT
WESTERN ECO-SYSTEMS TECHNOLOGY INC

Plate 76


SUSQUEHANNA RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
POCOMOKE RIVER
PATAPSCO RIVER
WESTER RIVER

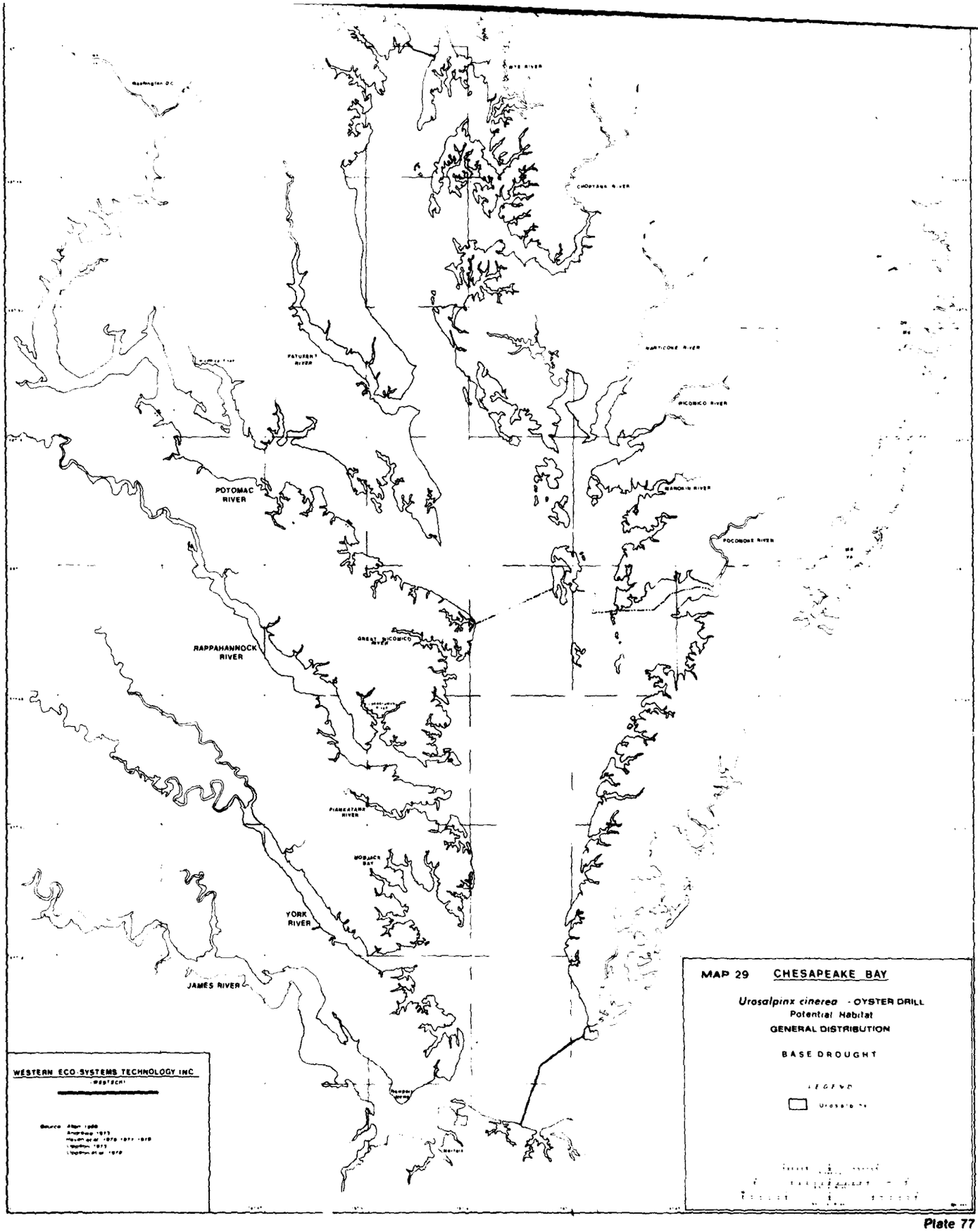
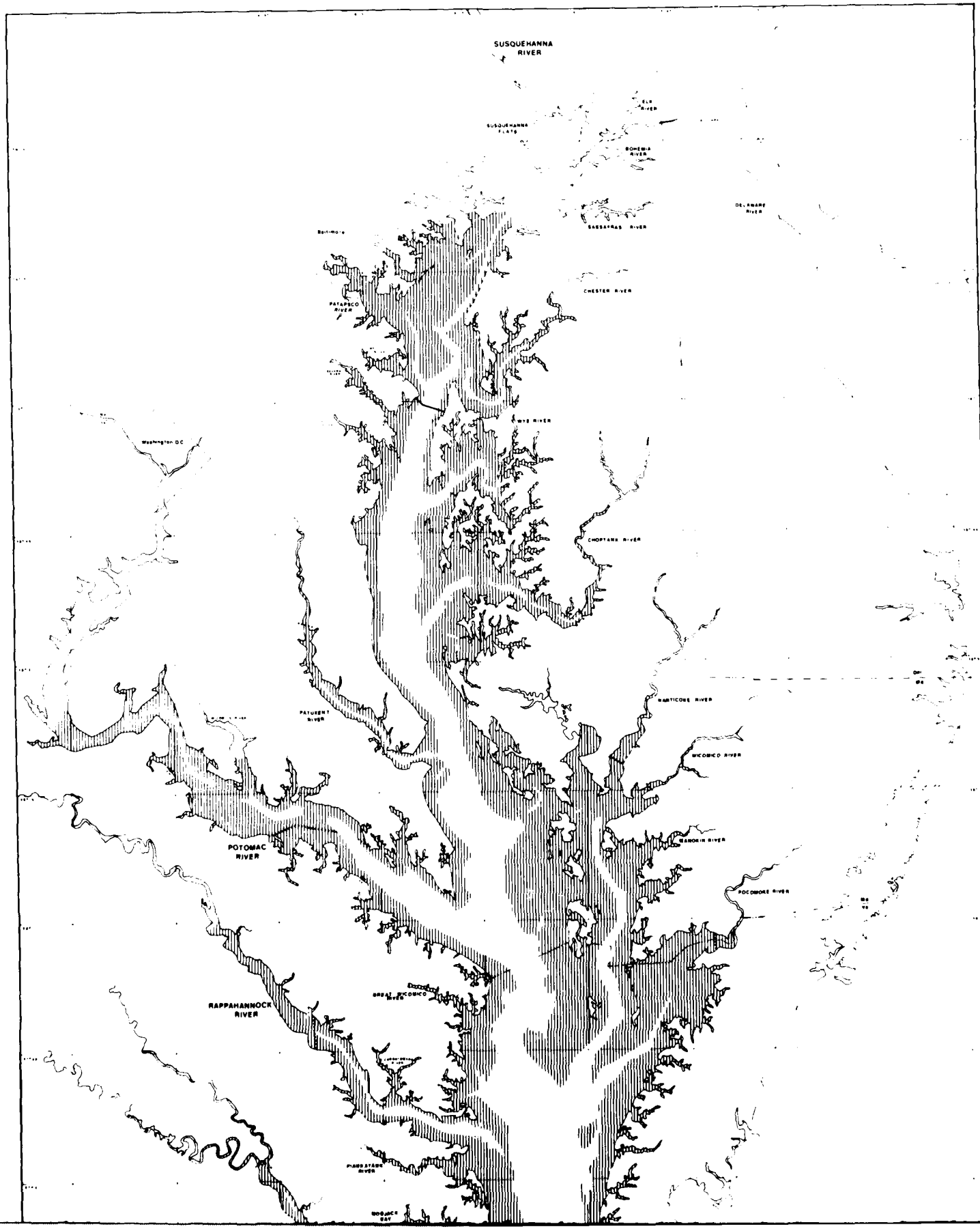

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
PIANKATANK RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY INC.
MAP 29 CHESAPEAKE BAY
Urosalpinx cinerea - OYSTER DRILL
Potential Habitat
GENERAL DISTRIBUTION
BASE DROUGHT

Plate 77


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
MOBJACK BAY

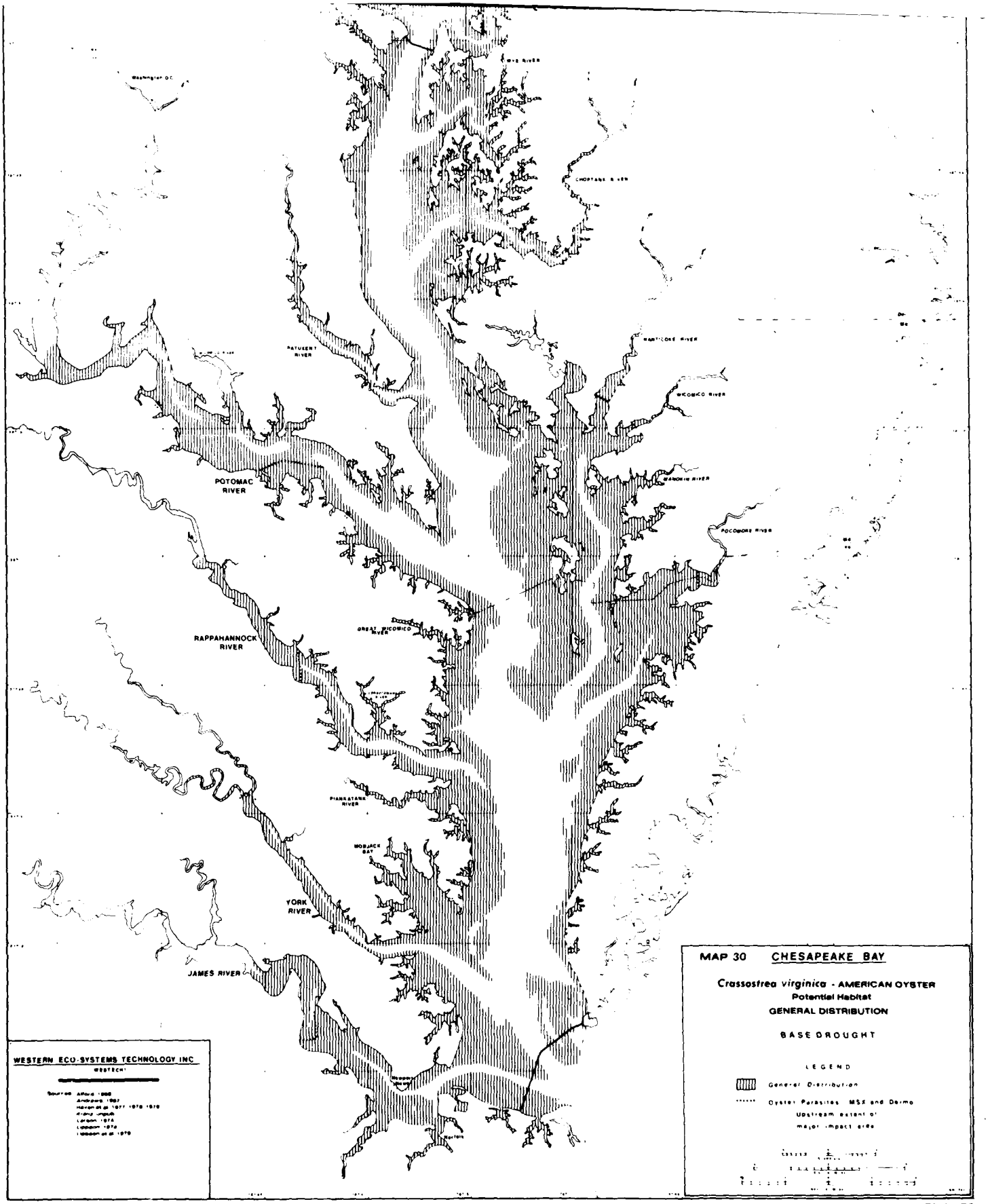
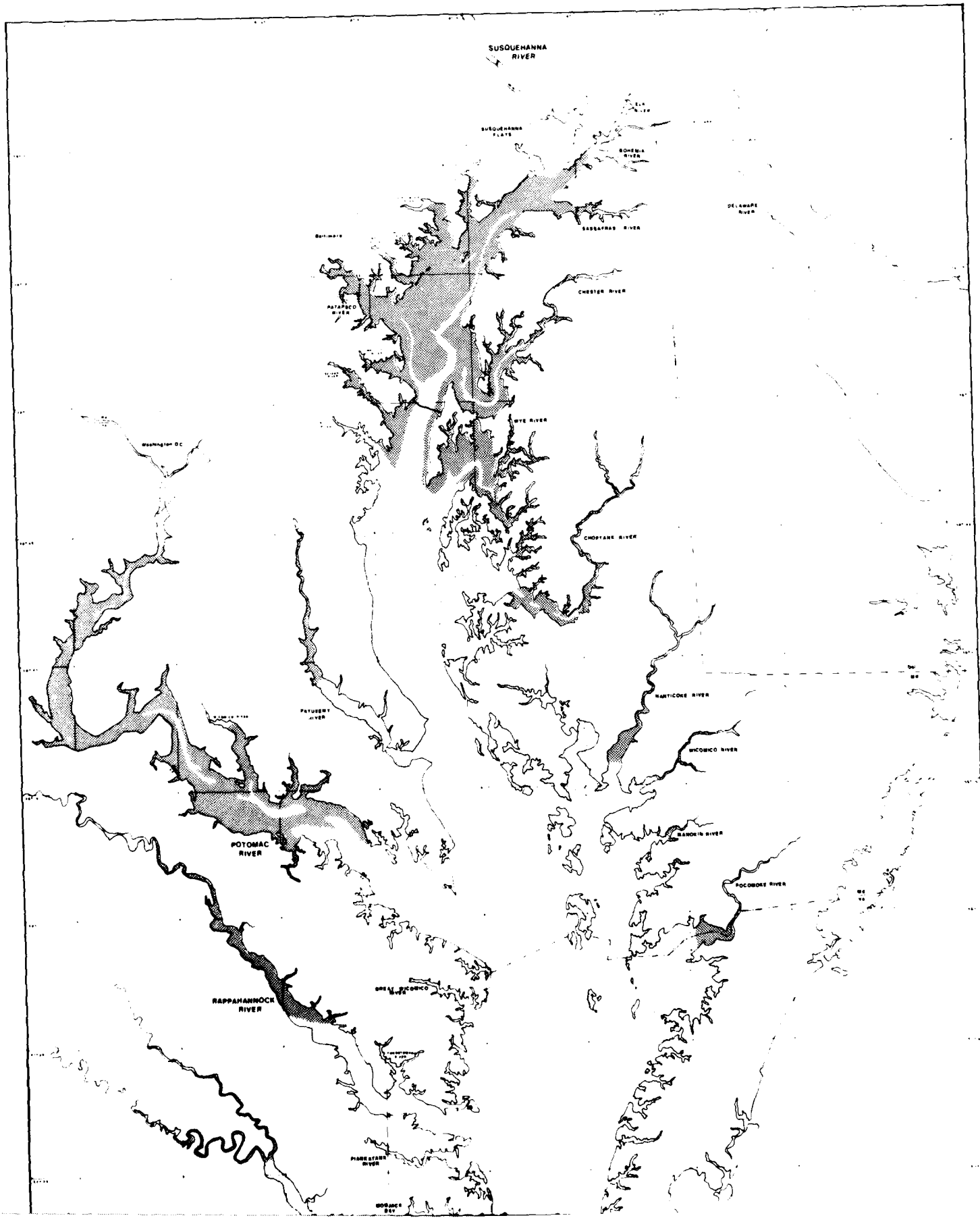

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
PIANKATANK RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY INC
WESTECH
MAP 30 CHESAPEAKE BAY
Crassostrea virginica - AMERICAN OYSTER
Potential Habitat
GENERAL DISTRIBUTION
BASE DROUGHT
LEGEND
General Distribution
Oyster Parasites MSX and Dermo
Upstream extent of
major impact area

Plate 78


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

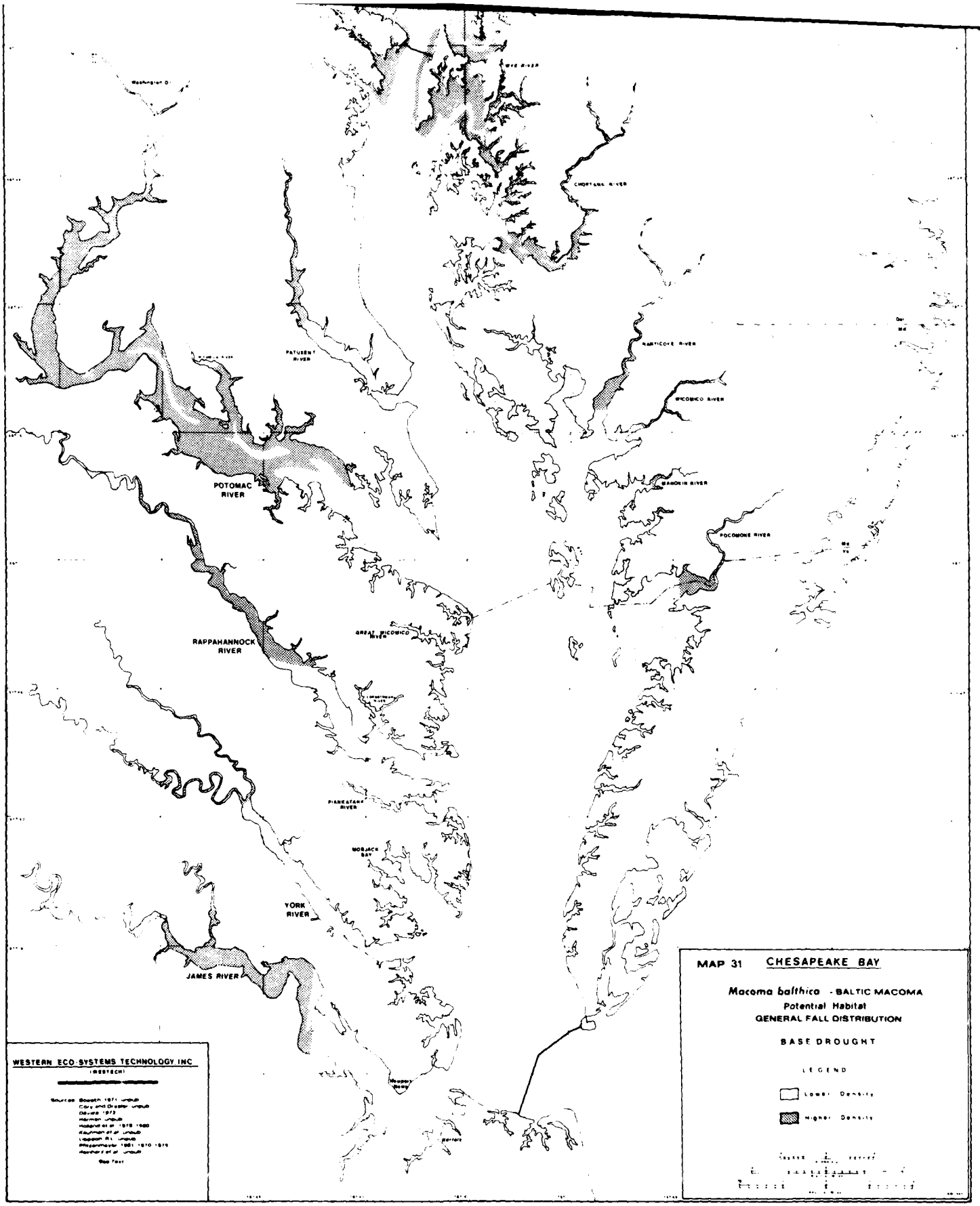
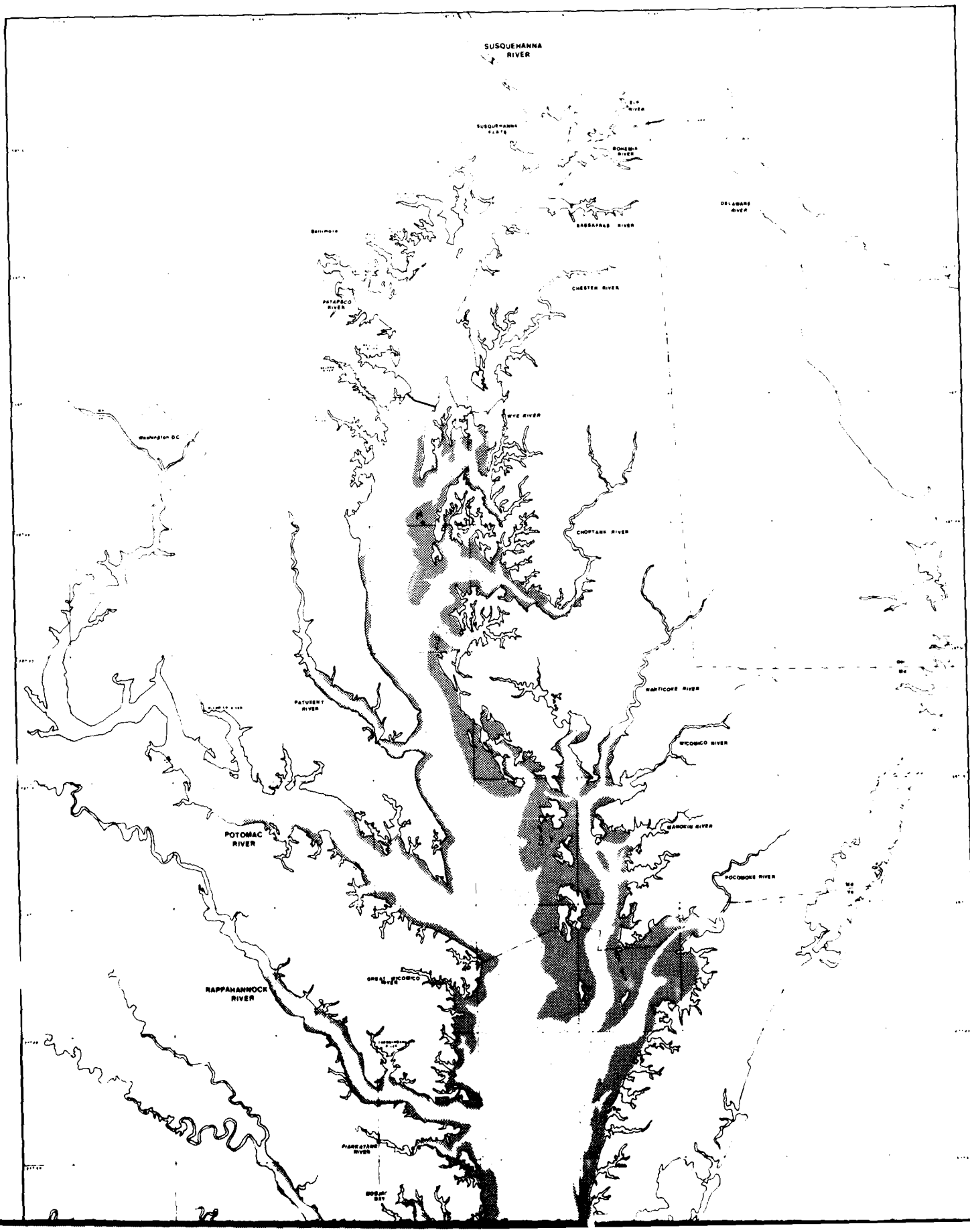

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 31 CHESAPEAKE BAY
Macoma balthica - BALTIC MACOMA
Potential Habitat
GENERAL FALL DISTRIBUTION
BASE DROUGHT
LEGEND
Lower Density
Higher Density
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)

Plate 79


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
HARTICON RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
TANGIER SOUND
PIANKATANK RIVER

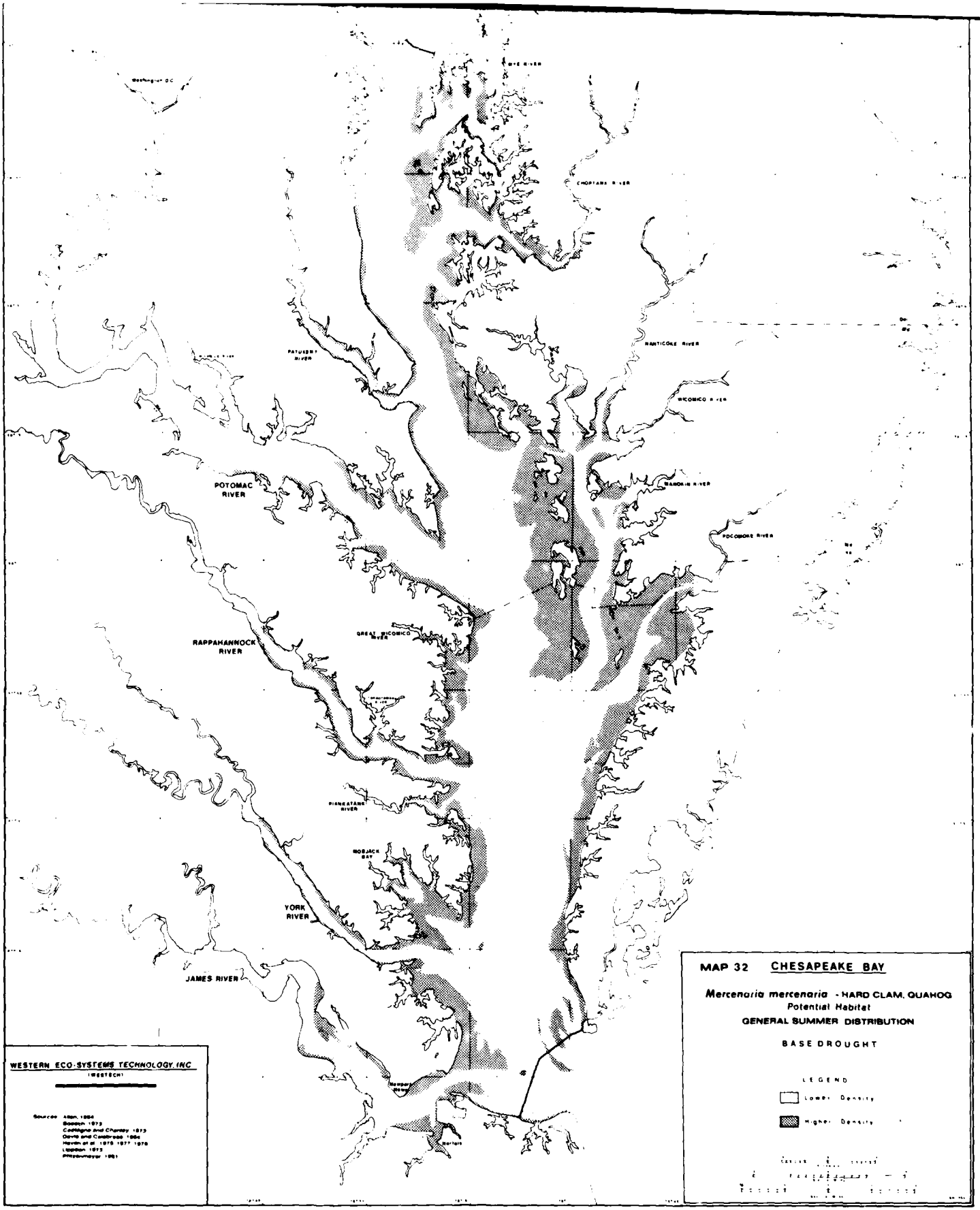
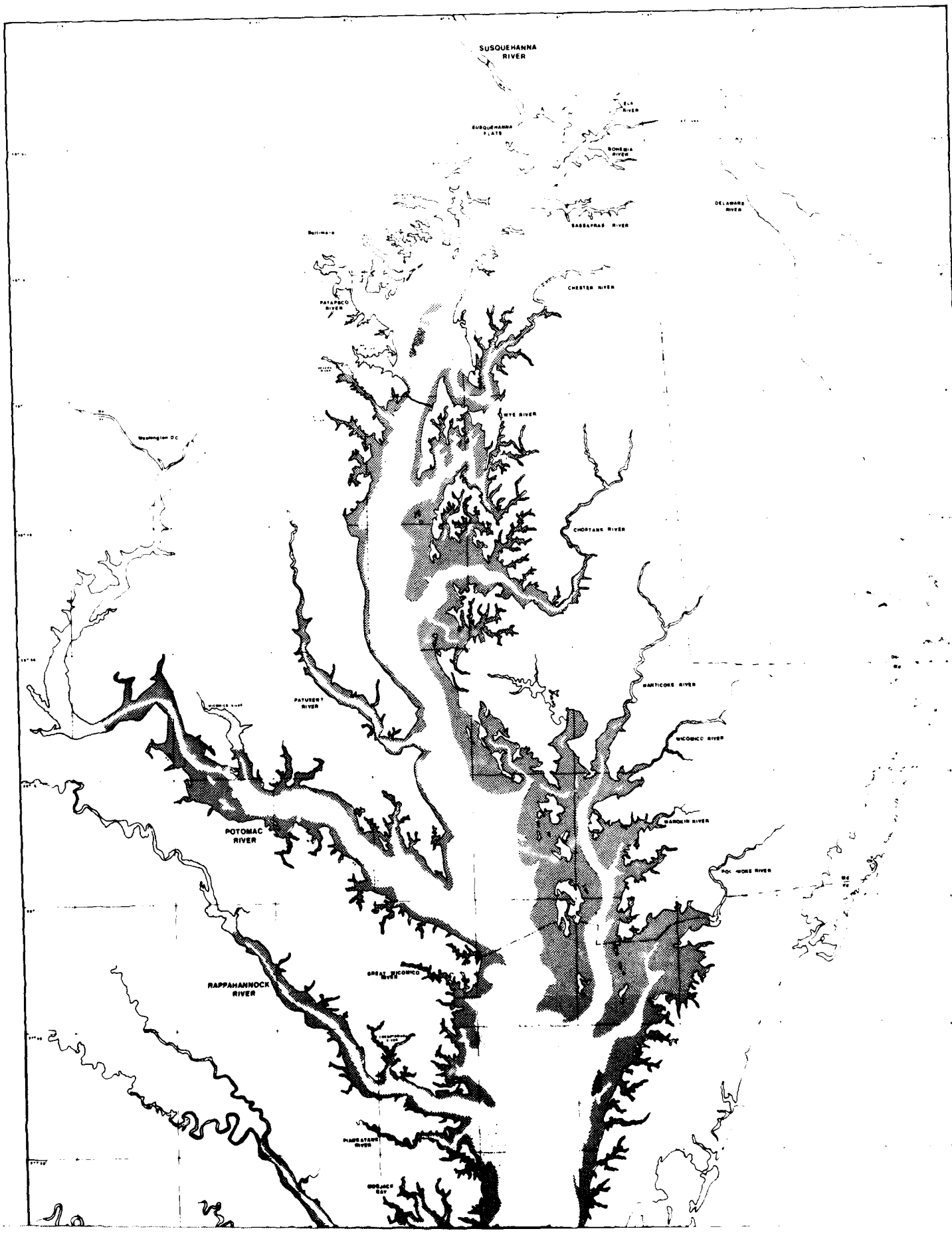
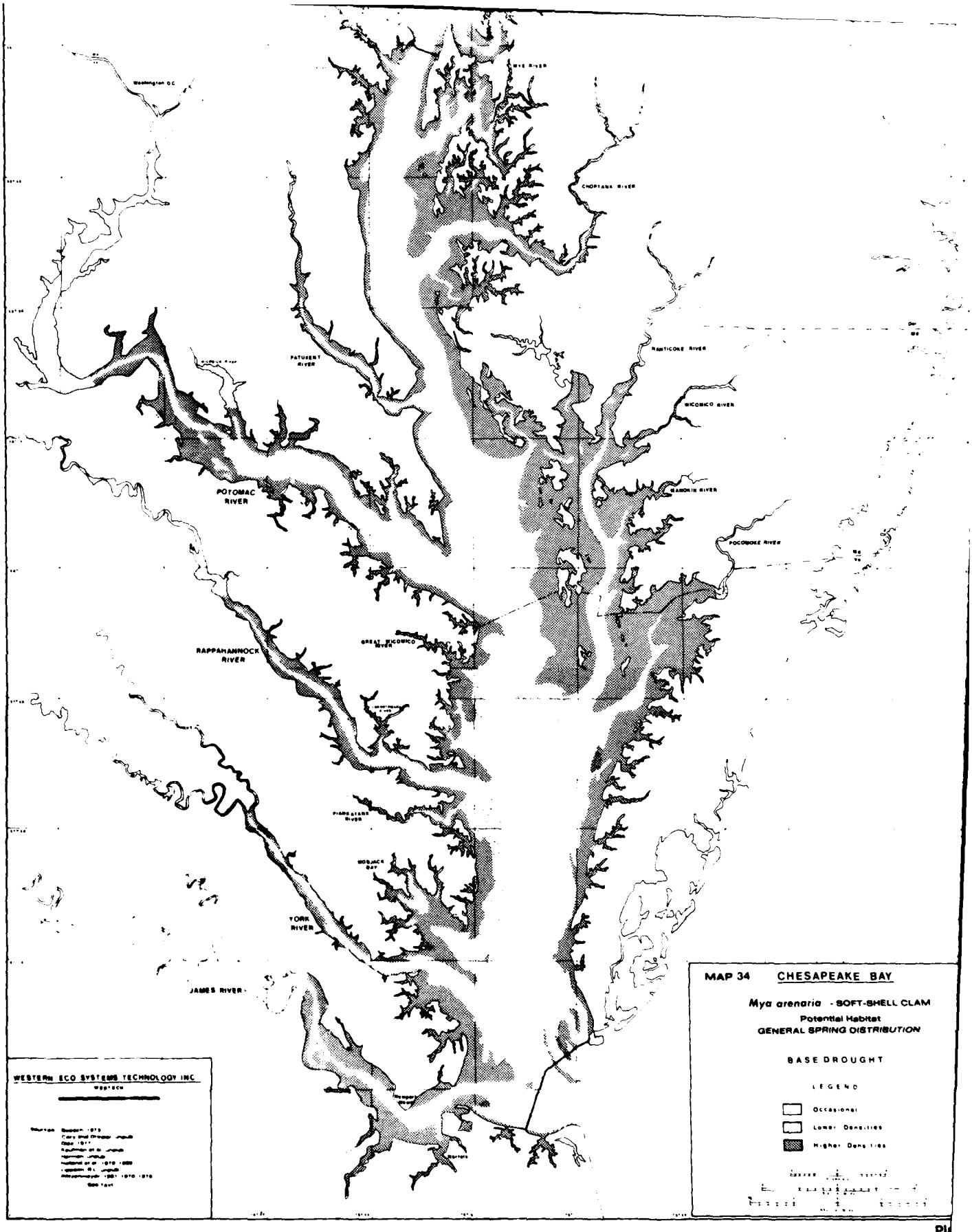
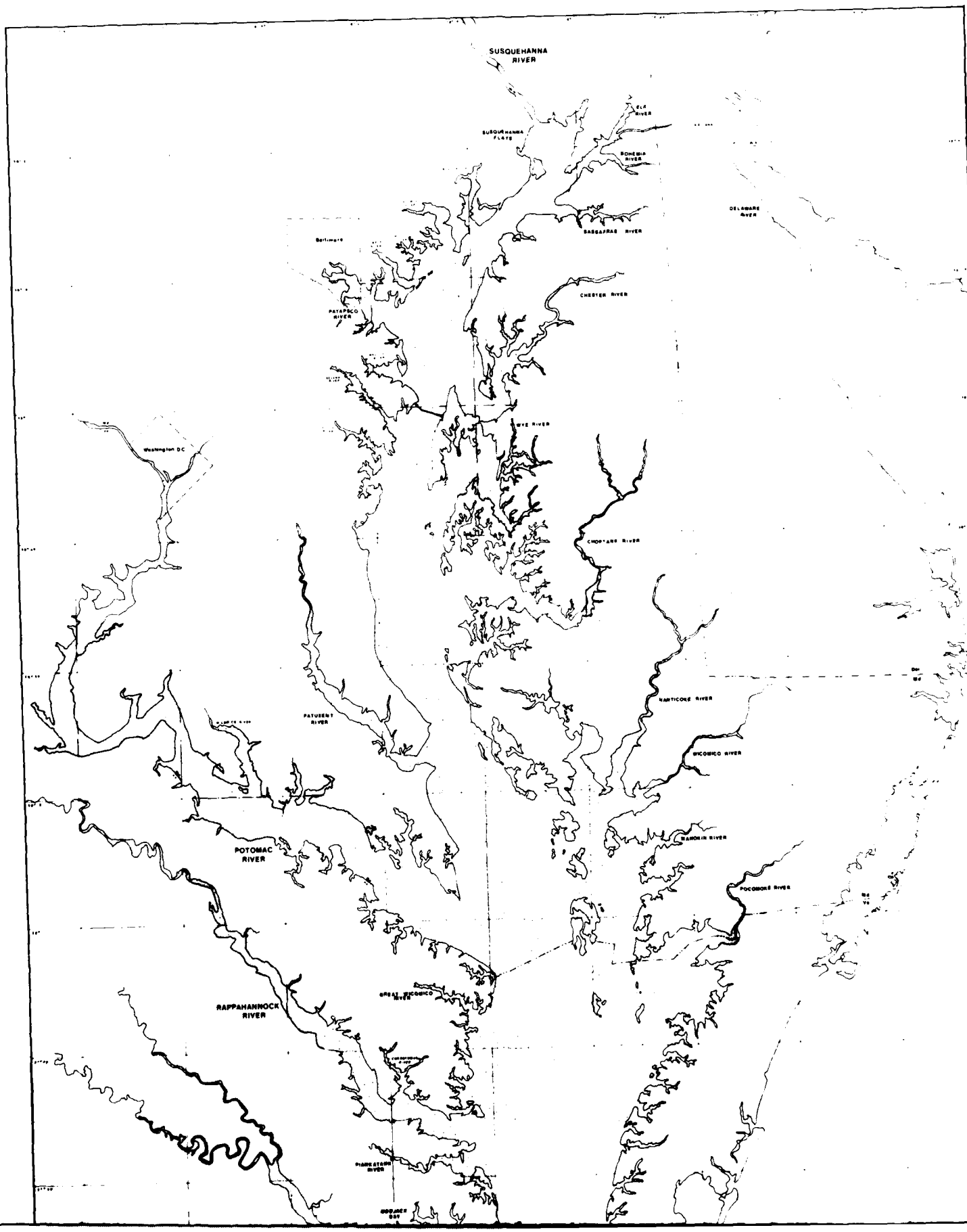

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
MAP 32 CHESAPEAKE BAY
Mercenaria mercenaria - HARD CLAM, QUAHOG
Potential Habitat
GENERAL SUMMER DISTRIBUTION
BASE DROUGHT
LEGEND
Lower Density
Higher Density
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)

Plate 80


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
CHOPTANK RIVER
MANTICOKE RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
NANTICOKE RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
NANTICOKE RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 34 CHESAPEAKE BAY
Mya arenaria - SOFT-SHELL CLAM
Potential Habitat
GENERAL SPRING DISTRIBUTION
BASE DROUGHT
LEGEND
Occasional
Lower Densities
Higher Densities
WESTERN ECO SYSTEMS TECHNOLOGY INC


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
CHESAPEAKE BAY

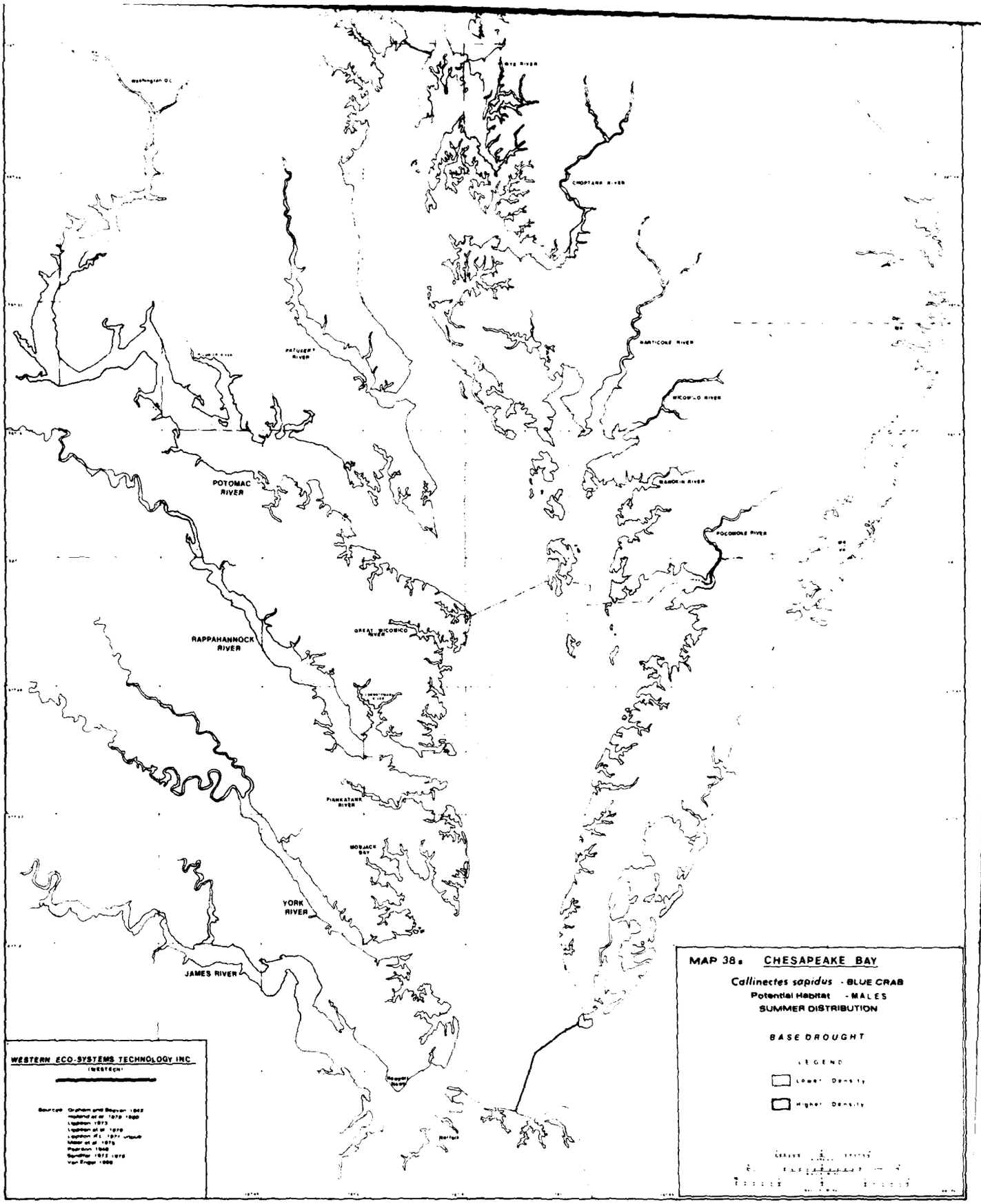
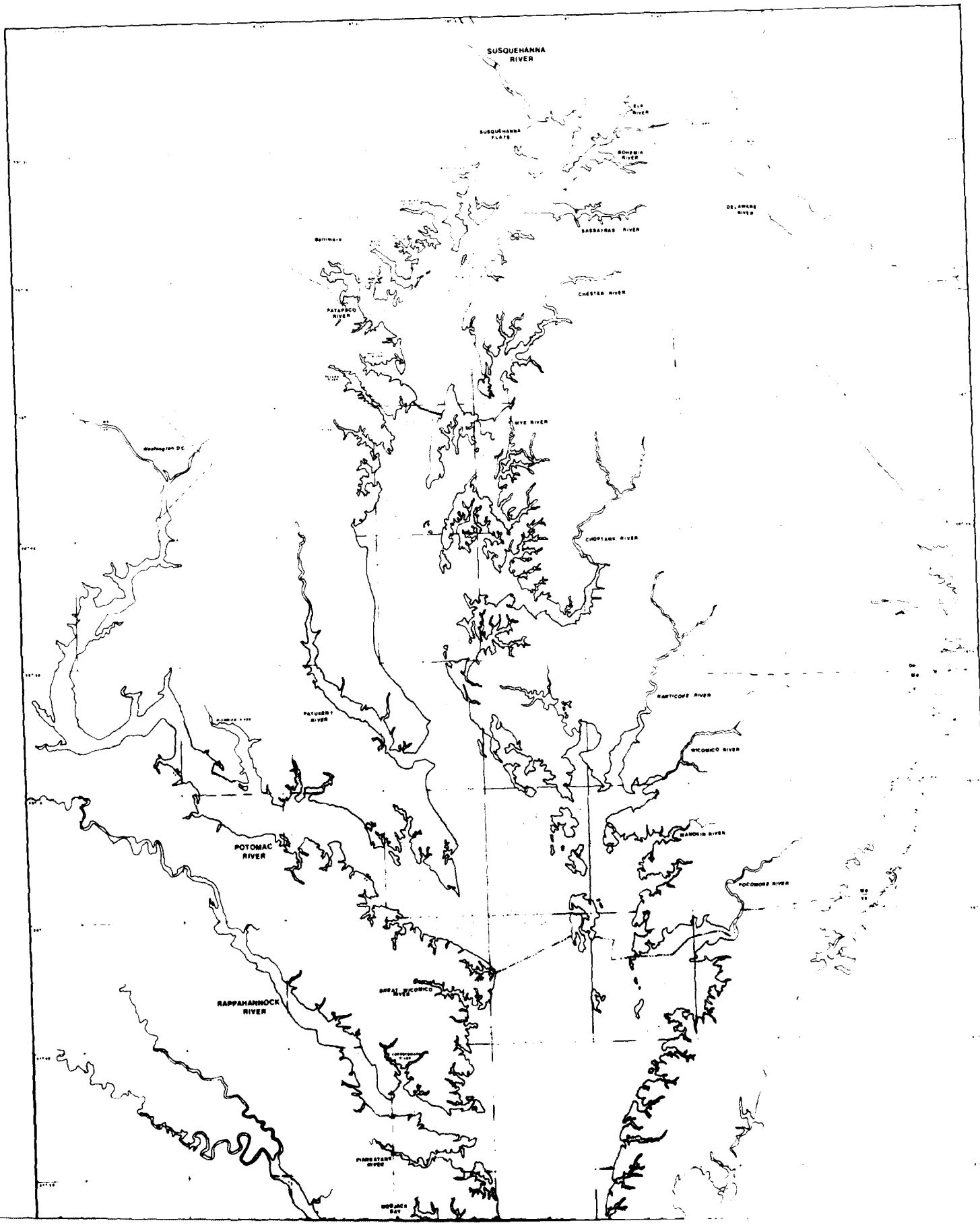

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
PIANKATANK RIVER
MOBJACK BAY
WESTERN ECO-SYSTEMS TECHNOLOGY INC.
MAP 38a CHESAPEAKE BAY
Callinectes sapidus - BLUE CRAB
Potential Habitat - MALES
SUMMER DISTRIBUTION
BASE DROUGHT
LEGEND
Lower Density
Higher Density

Plate 82


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
POTOMAC RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

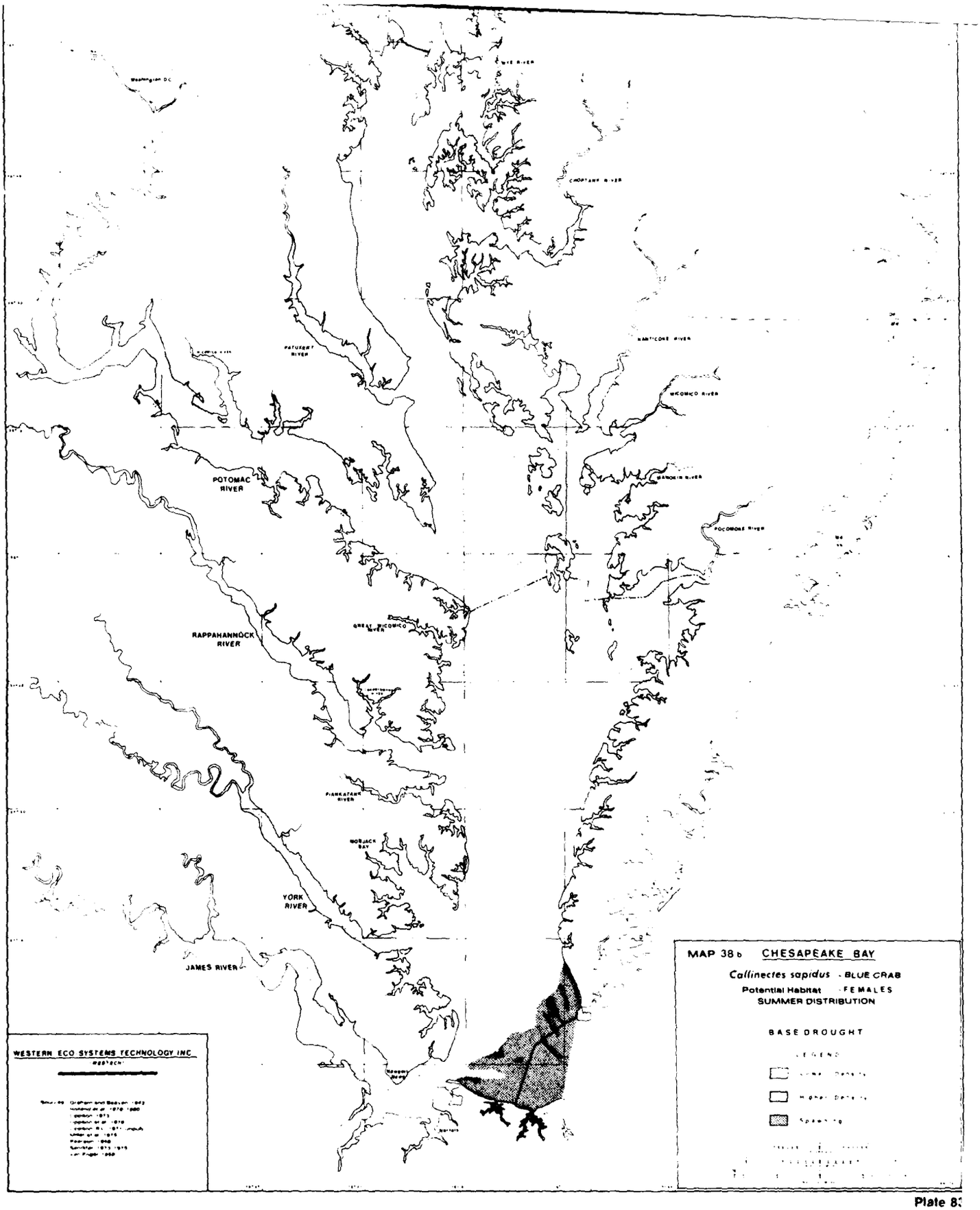
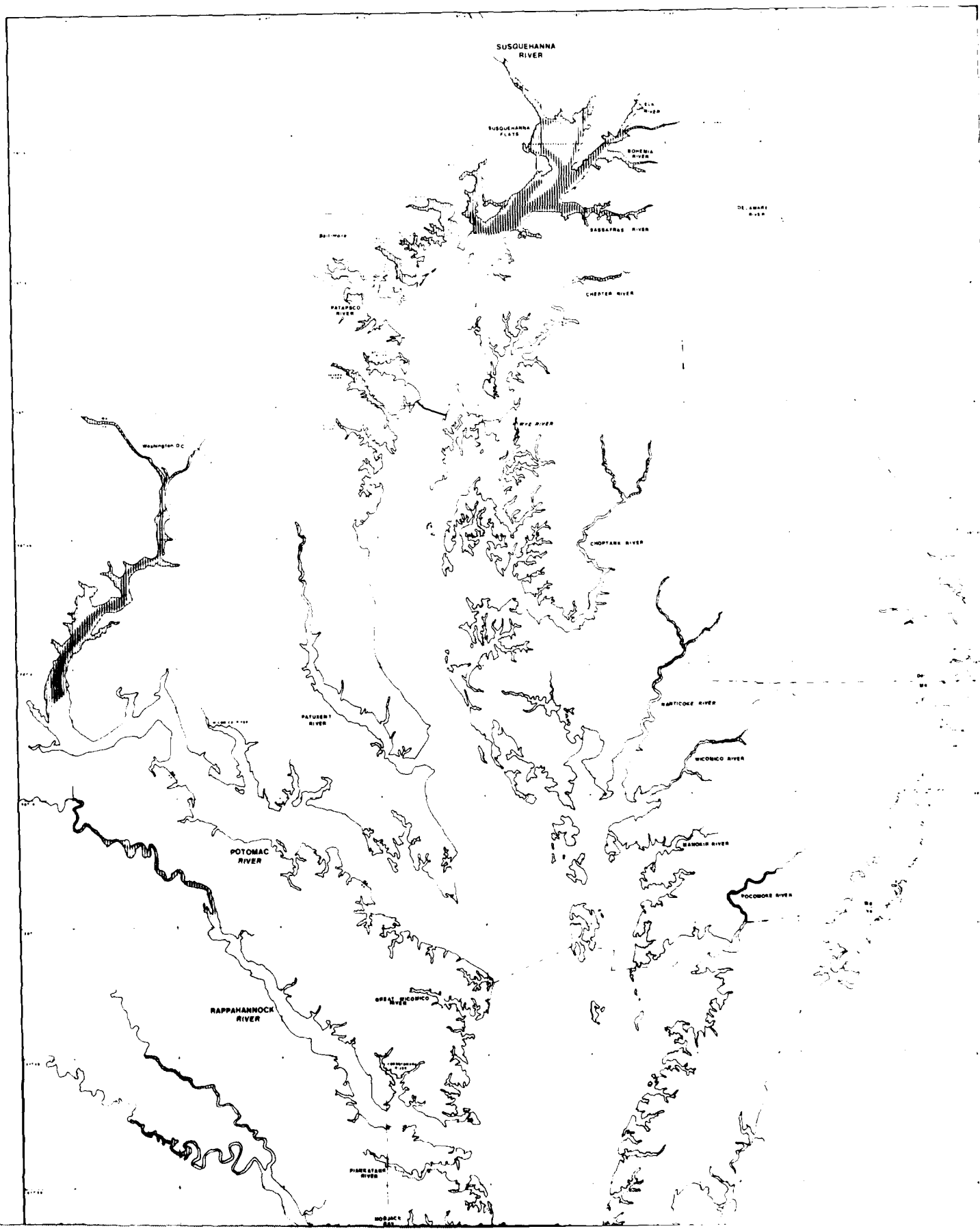

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 38 b CHESAPEAKE BAY
Callinectes sapidus - BLUE CRAB
Potential Habitat - FEMALES
SUMMER DISTRIBUTION
BASE DROUGHT
WESTERN ECO SYSTEMS TECHNOLOGY INC

Plate 8


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

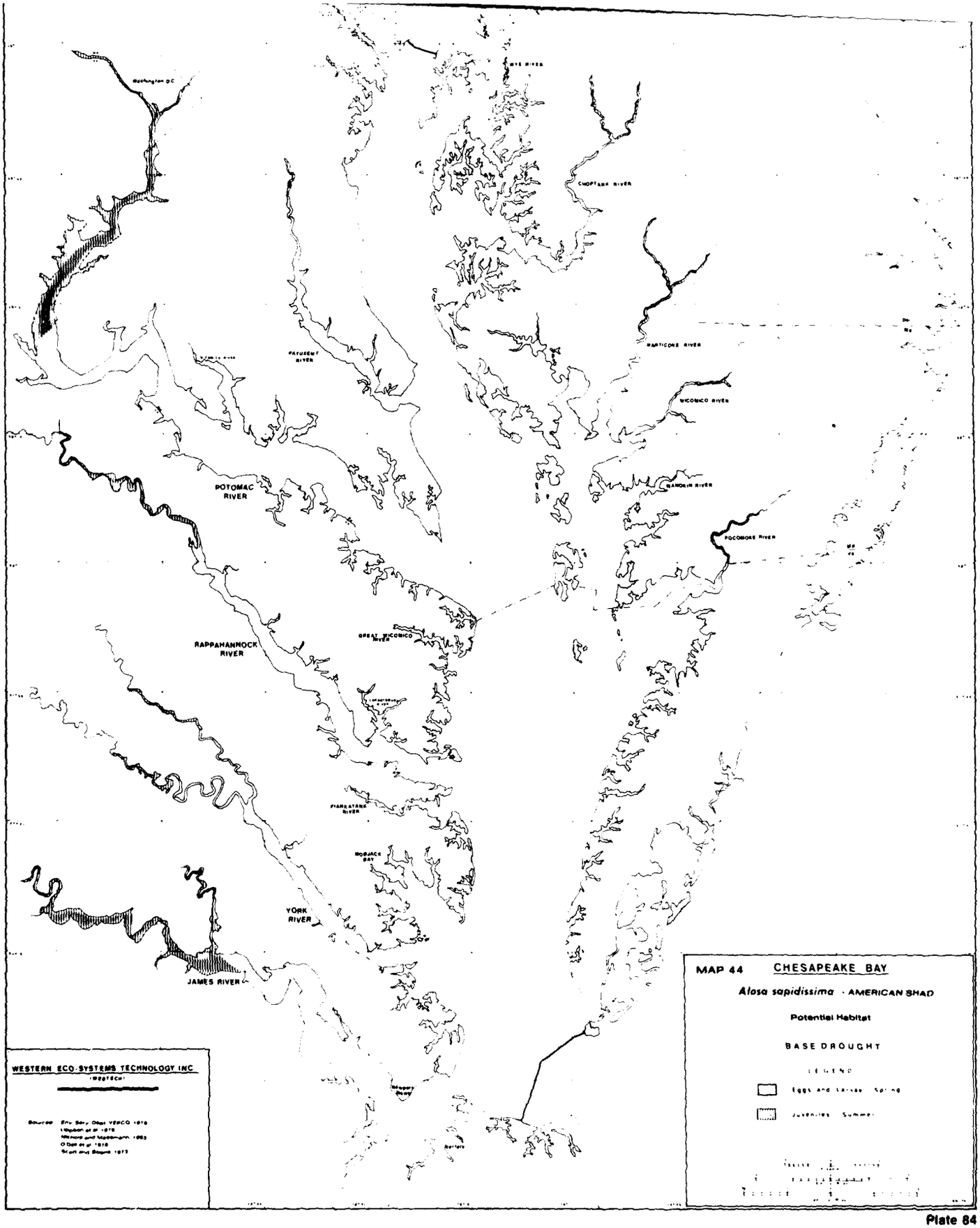
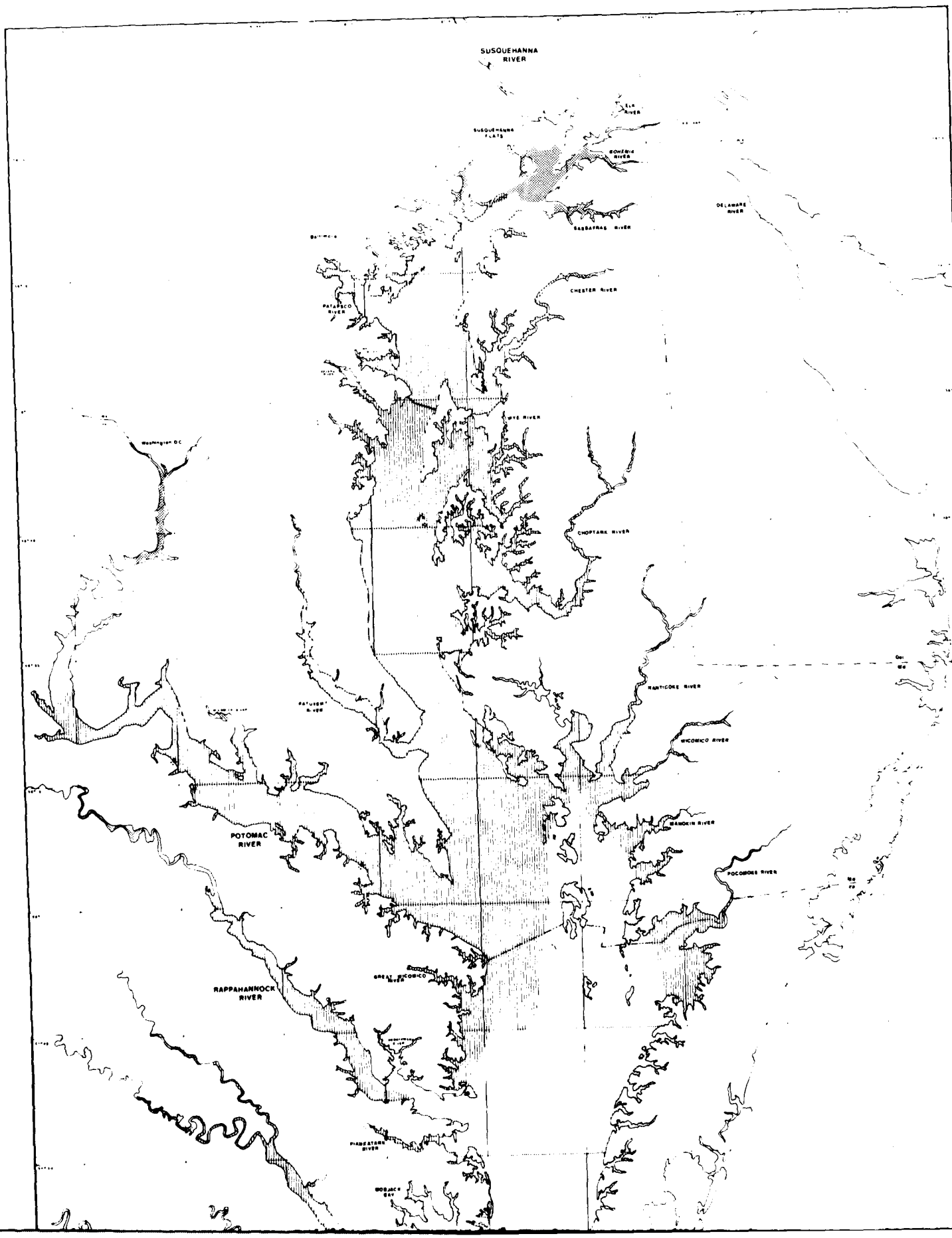

Washington D.C.
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
YORK RIVER
JAMES RIVER
MAP 44 CHESAPEAKE BAY
Alosa sapidissima - AMERICAN SHAD
Potential Habitat
BASE DROUGHT
LEGEND
Eggs and Larvae - Spring
Juveniles - Summer
WESTERN ECO-SYSTEMS TECHNOLOGY INC.

Plate 84


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
WASHINGTON DC
CHOPTANK RIVER
RAPPAHANNOCK RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

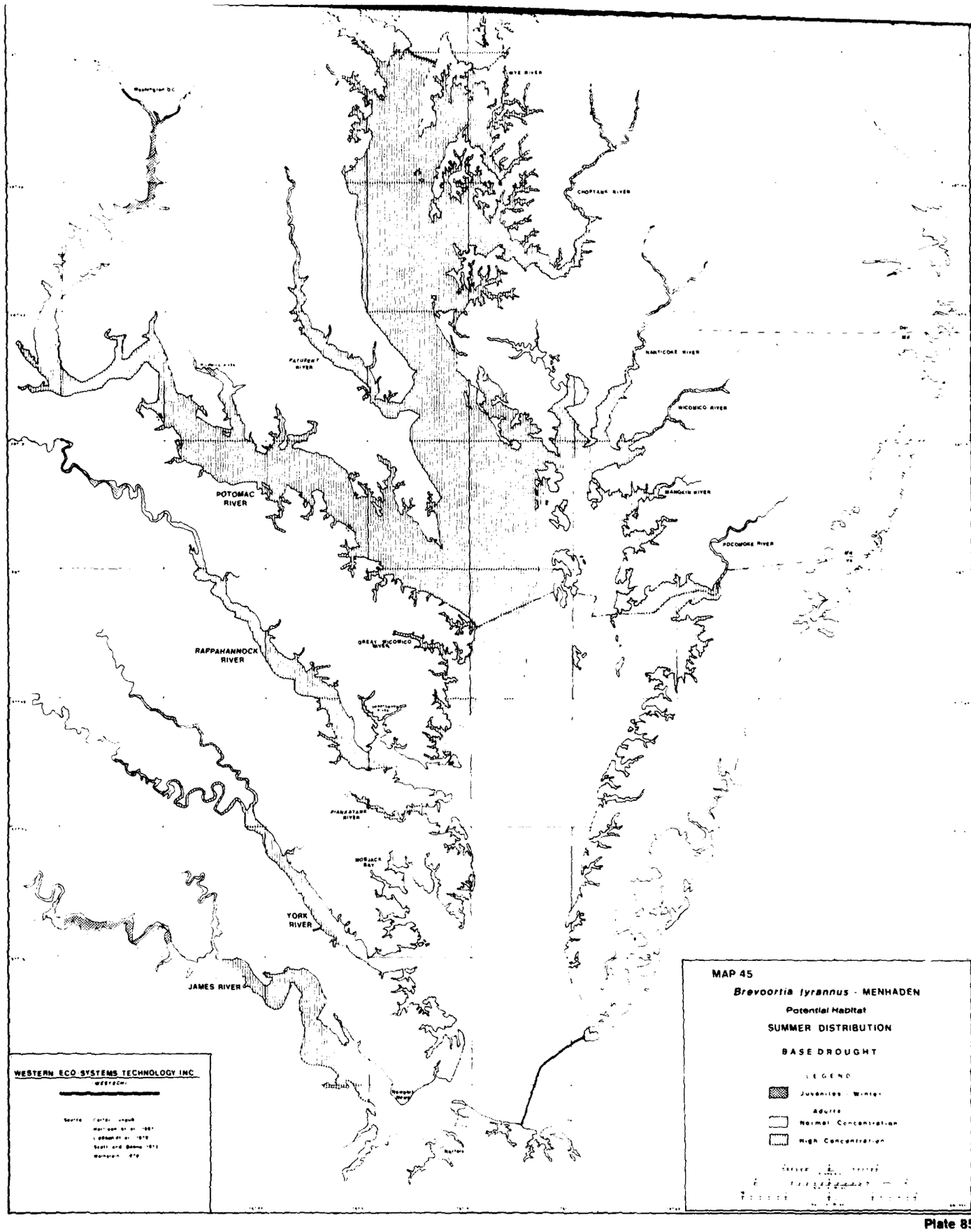
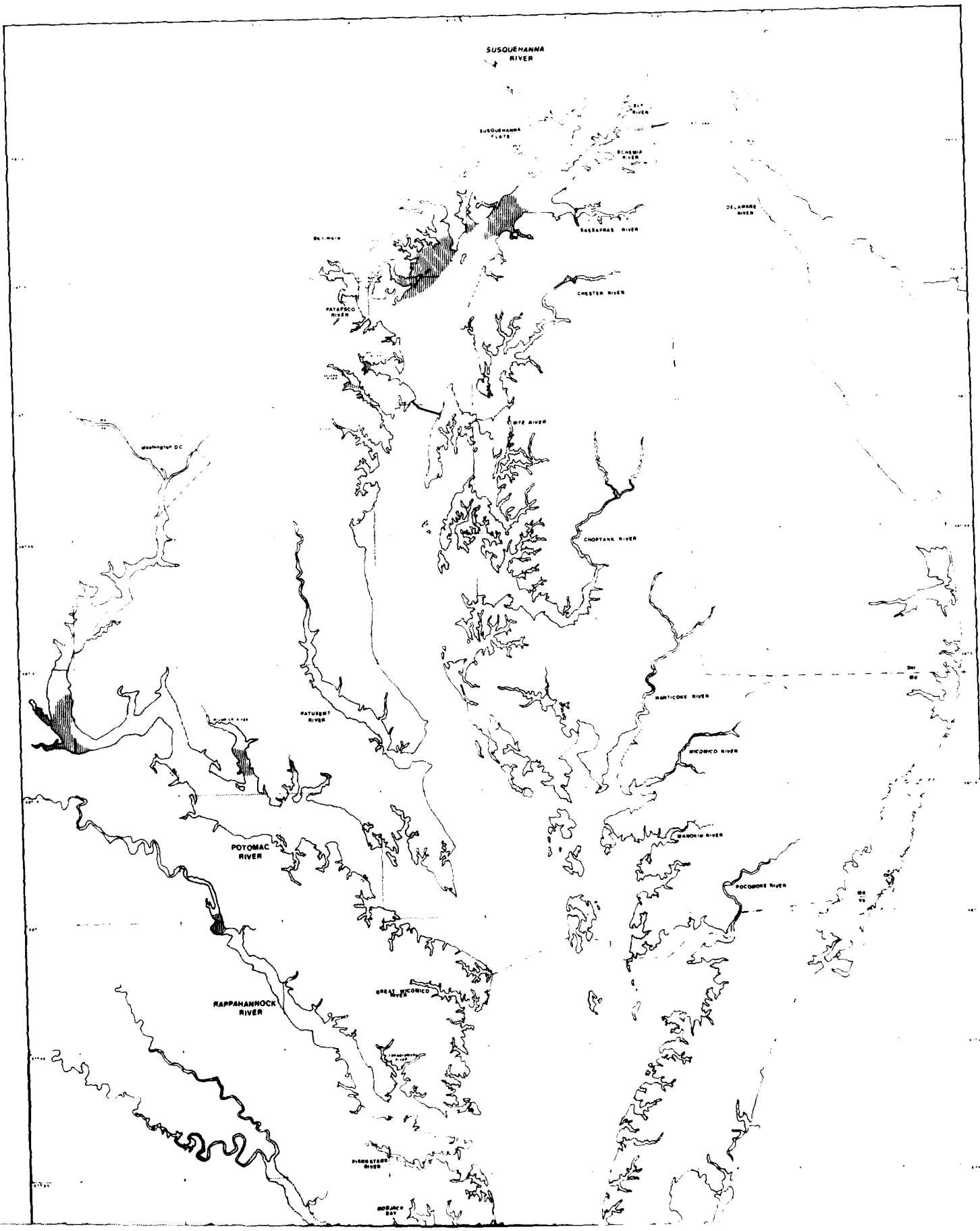

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 45
Brevoortia tyrannus - MENHADEN
Potential Habitat
SUMMER DISTRIBUTION
BASE DROUGHT
LEGEND
Juveniles - Winter
Adults
Normal Concentration
High Concentration
WESTERN ECO SYSTEMS TECHNOLOGY INC

Plate 85


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
BALTIMORE
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
MANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
NANTICOKE RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY

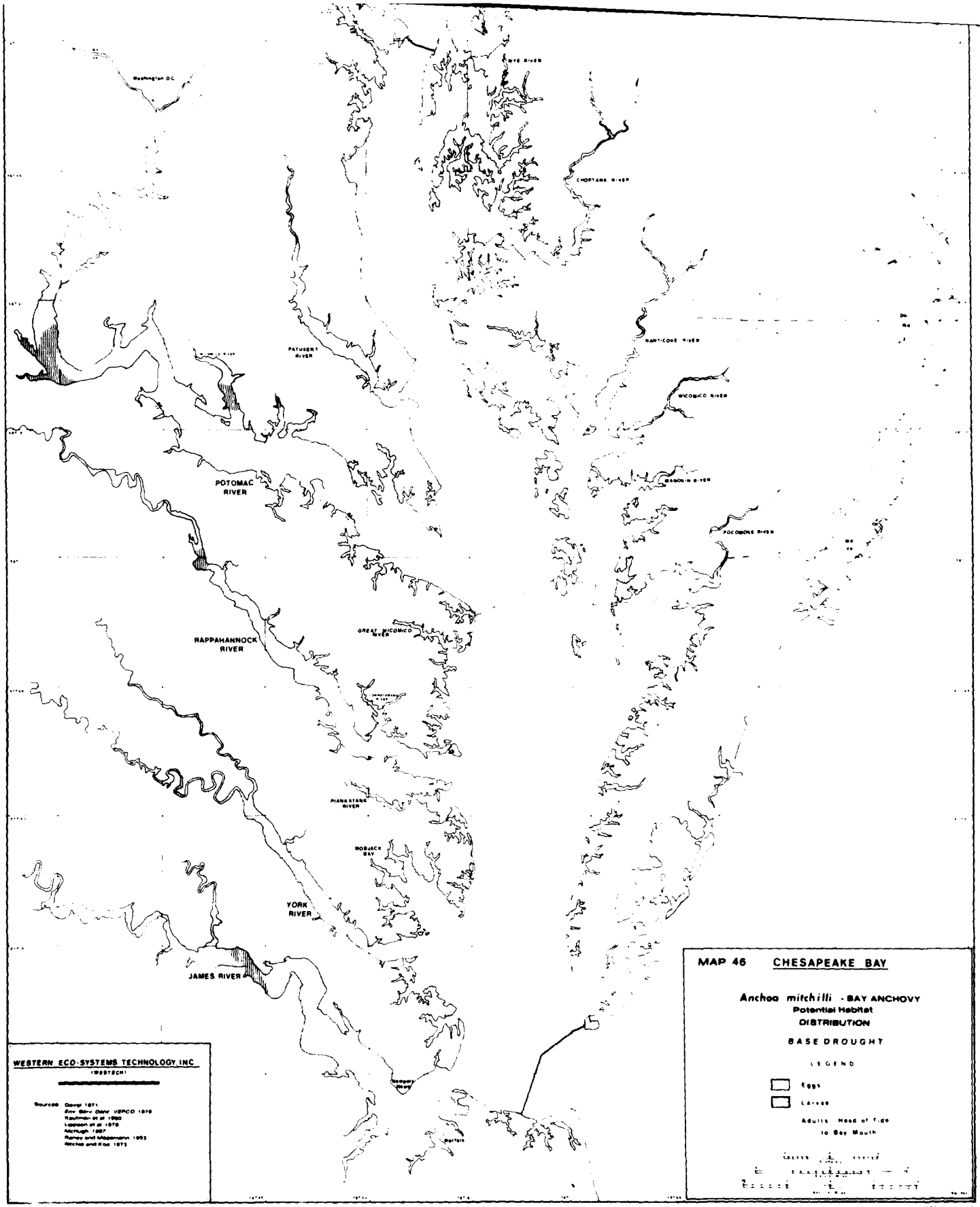
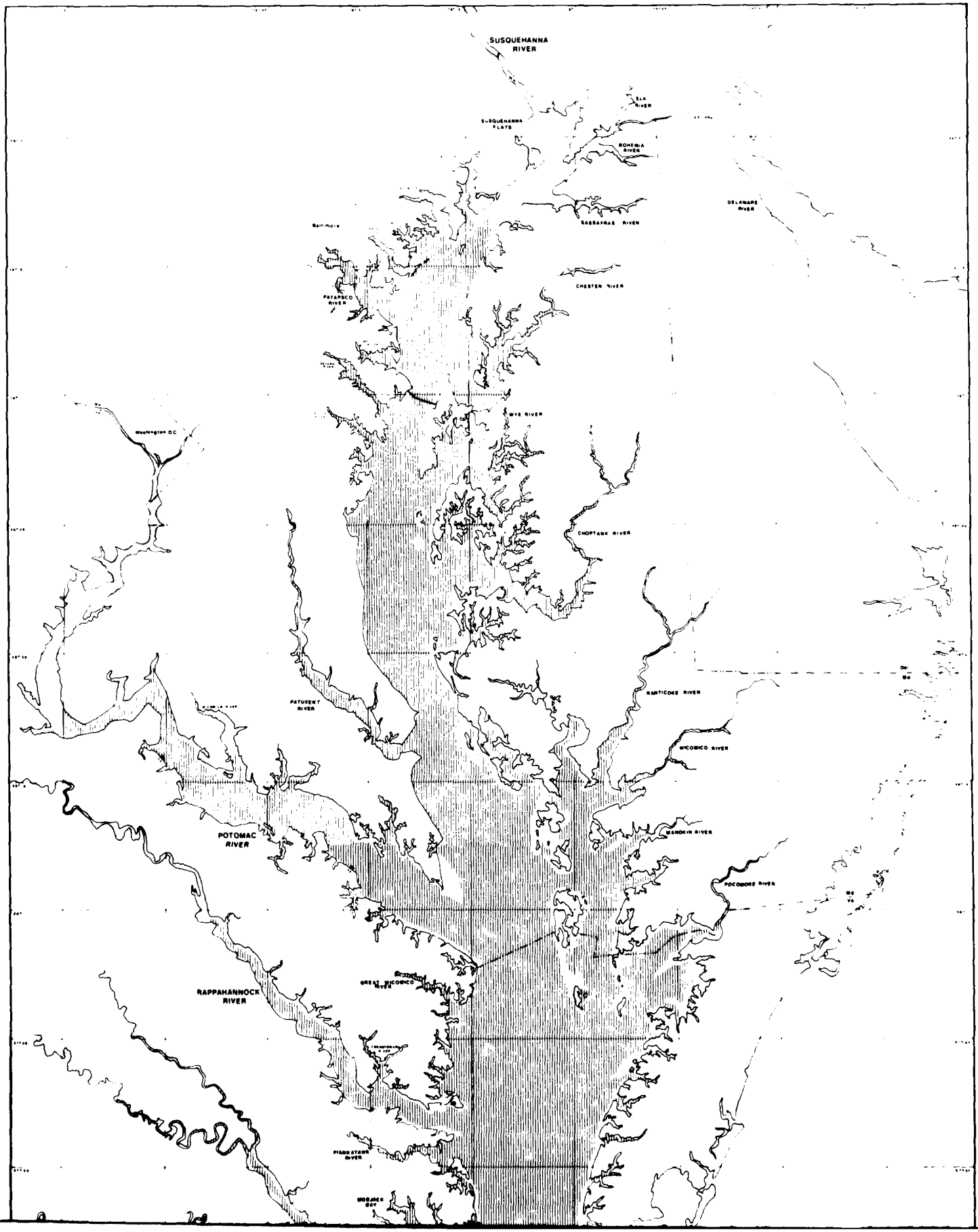

Washington DC
PATUXENT RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 46 CHESAPEAKE BAY
Anchoa mitchilli - BAY ANCHOVY
Potential Habitat
DISTRIBUTION
BASE DROUGHT
LEGEND
Eggs
Larvae
Adults Head of Tide to Bay Mouth
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)

Plate 86


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
HANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

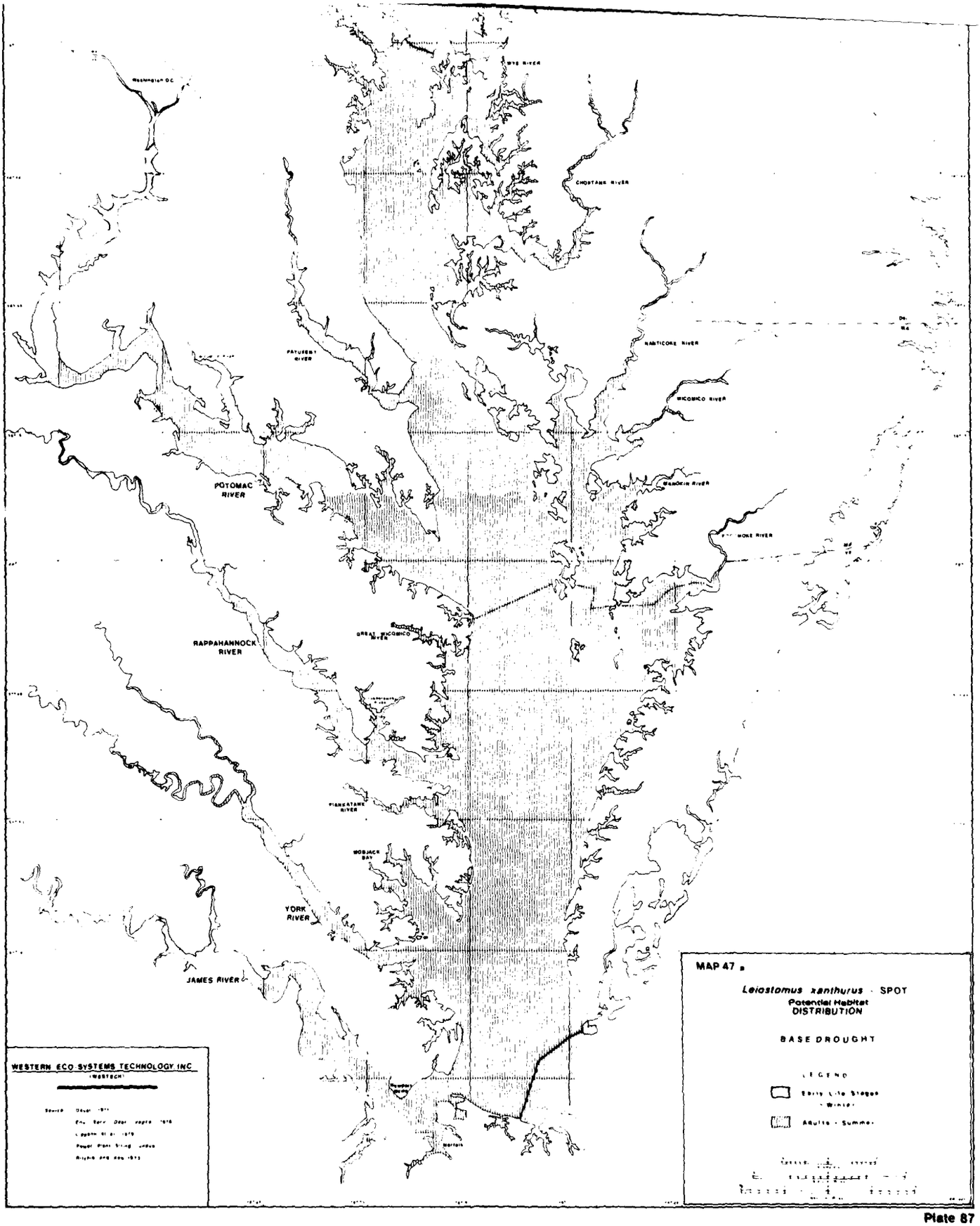
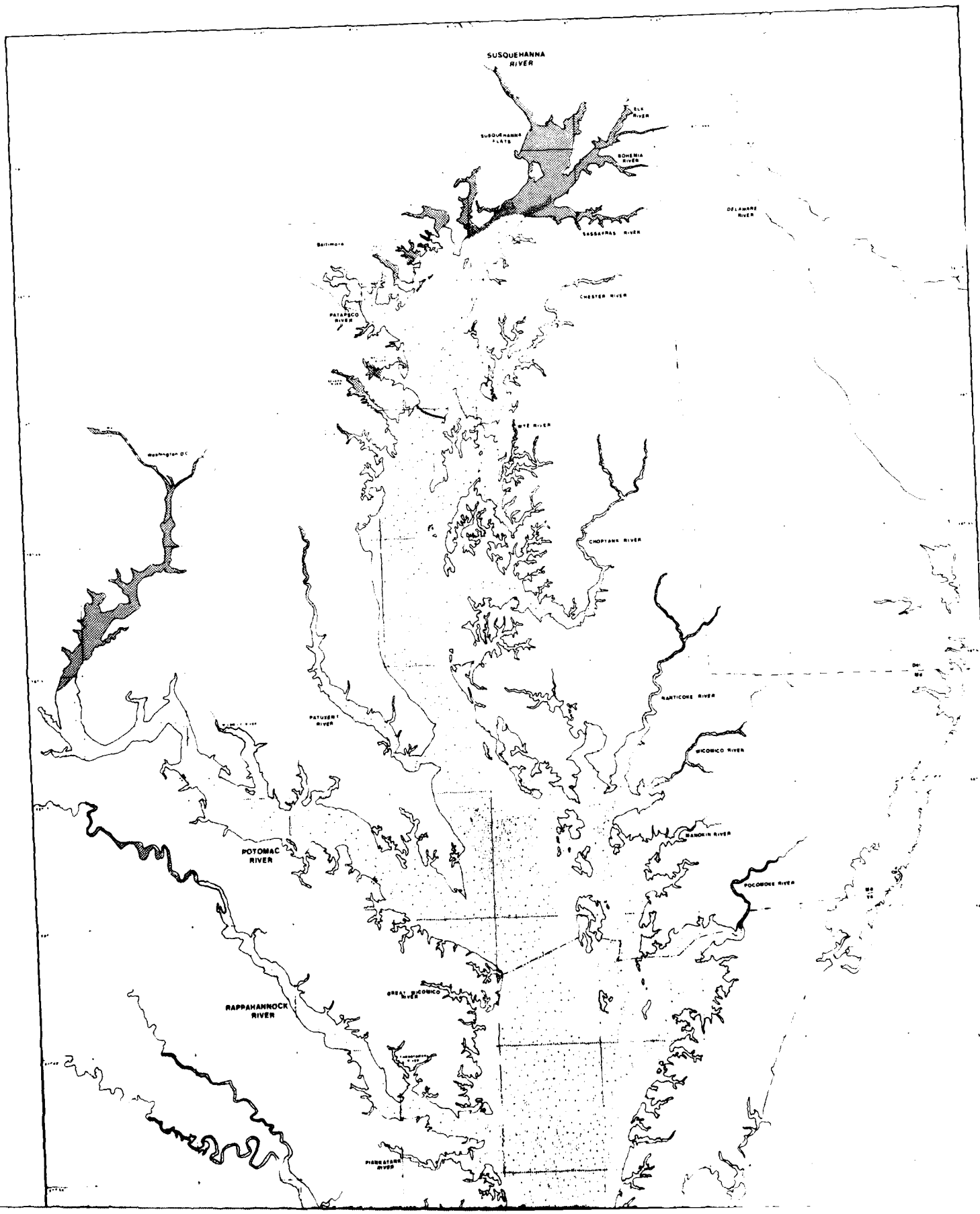
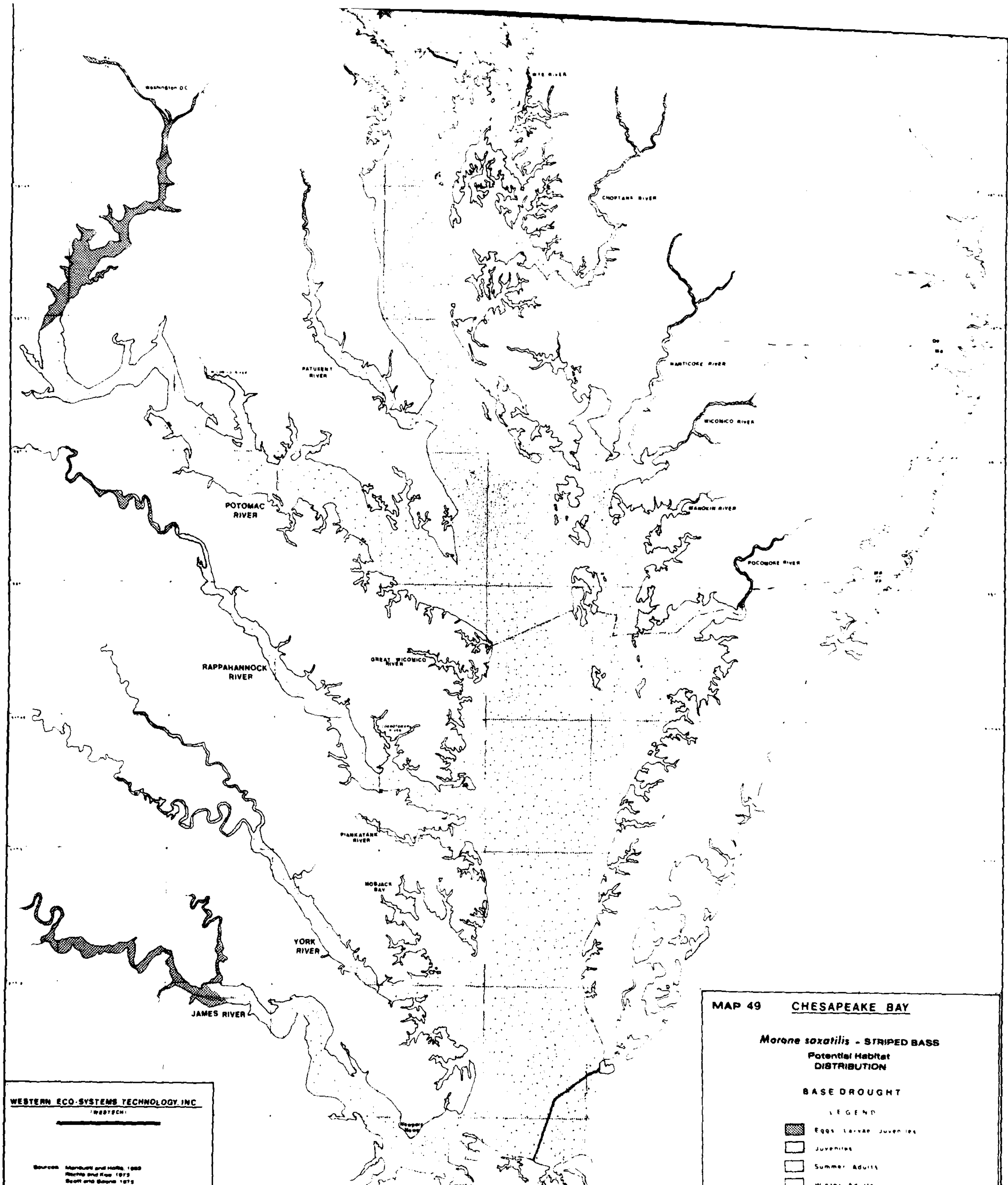

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 47 .
Leiostomus xanthurus - SPOT
Potential Habitat
DISTRIBUTION
BASE DROUGHT
LEGEND
WESTERN ECO SYSTEMS TECHNOLOGY INC
-WESTECH-

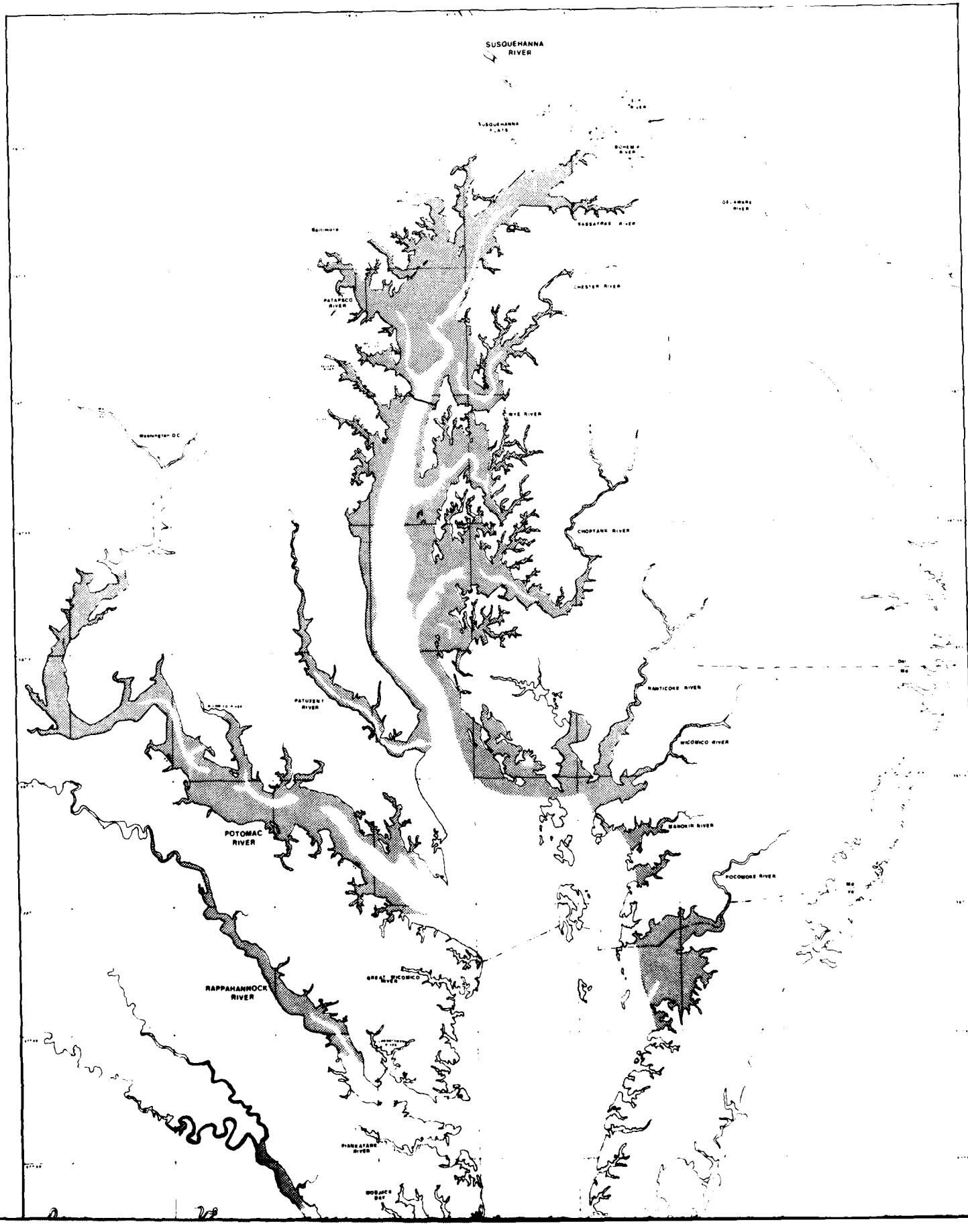
Plate 87


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER



Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY, INC
(WESTECH)
Sources
MAP 49
CHESAPEAKE BAY
Morone saxatilis - STRIPED BASS
Potential Habitat
DISTRIBUTION
BASE DROUGHT
LEGEND
▨ Eggs Larvae Juveniles
☐ Juveniles
☐ Summer Adults
☐ Winter Adults

Plate 88


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY

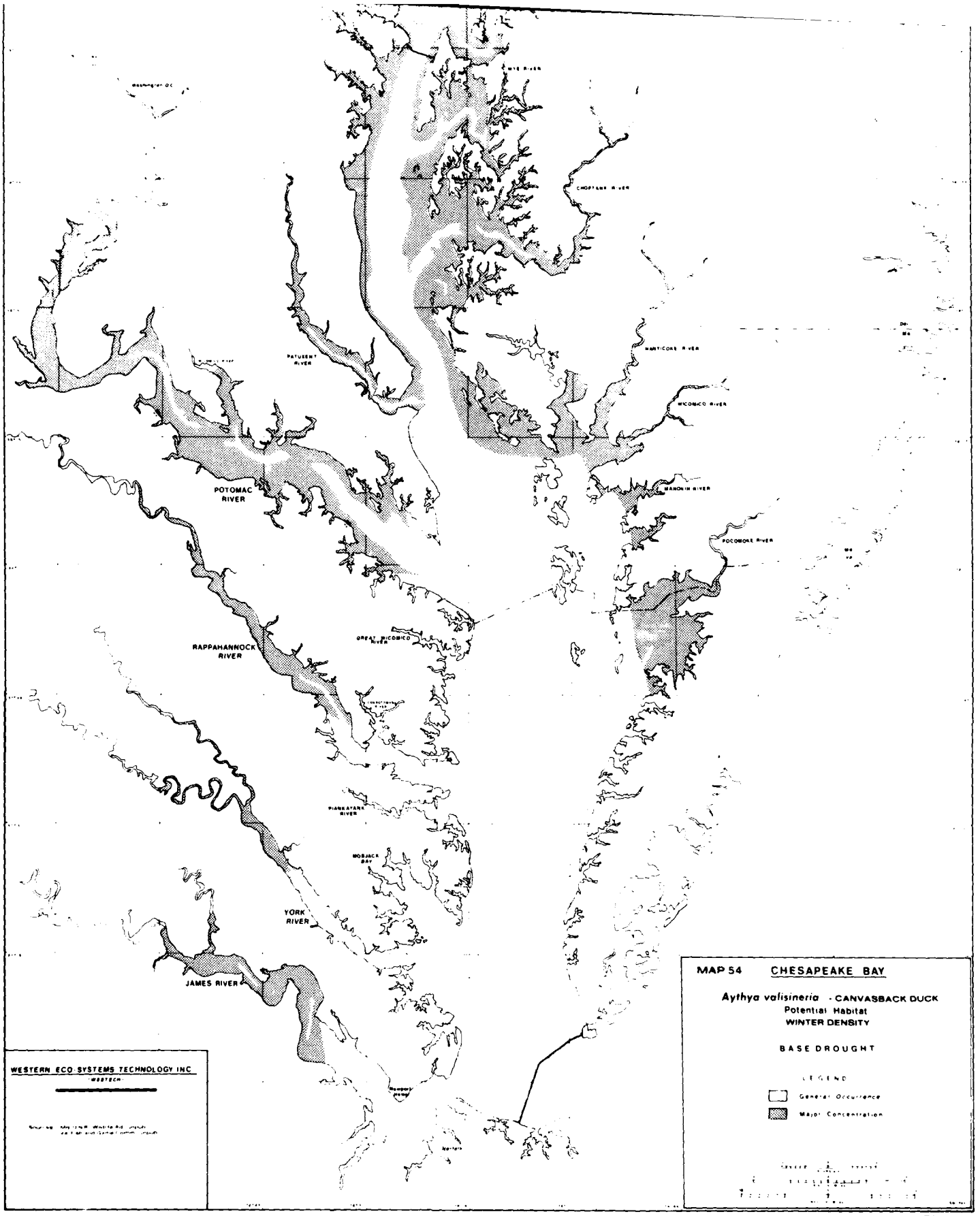
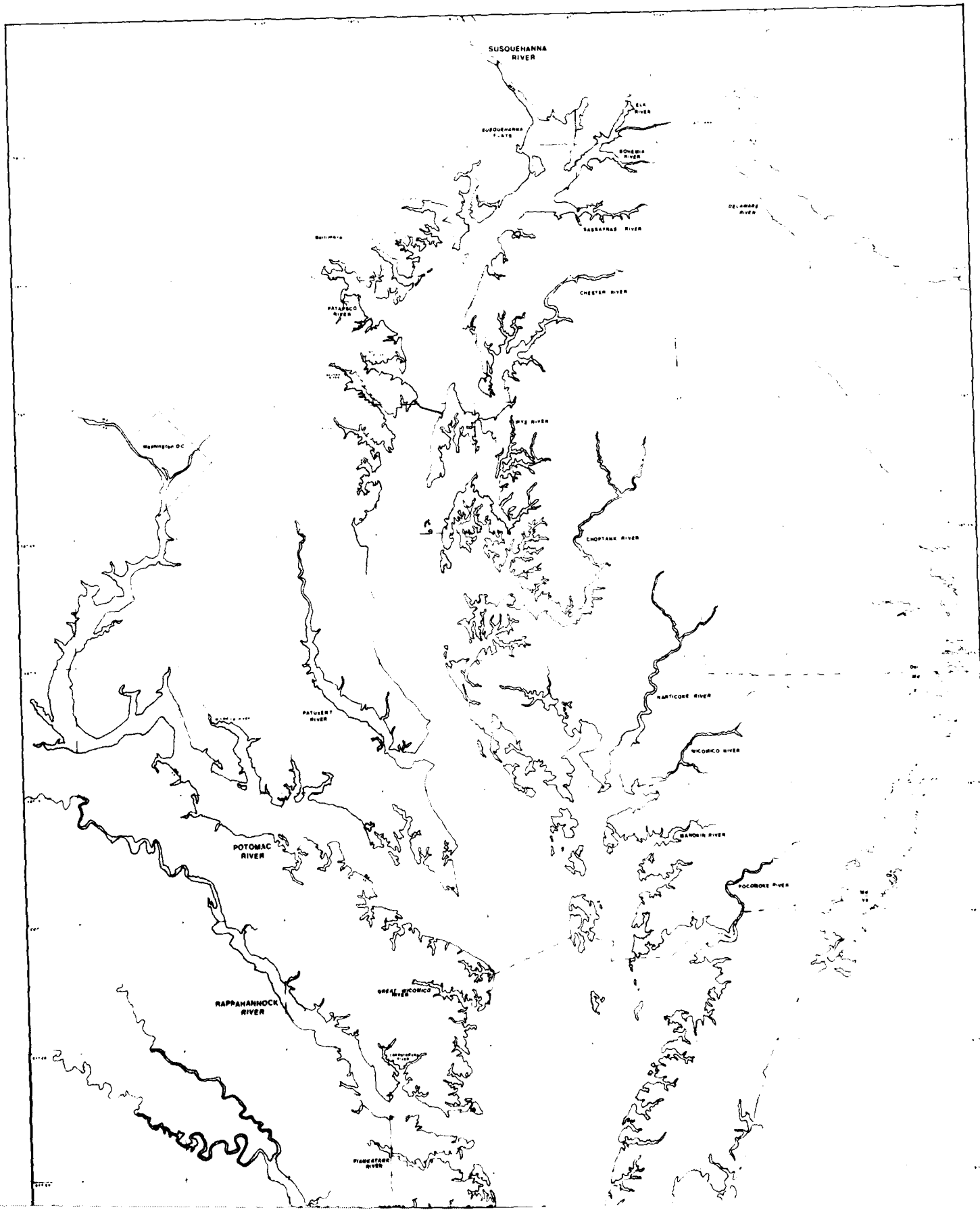
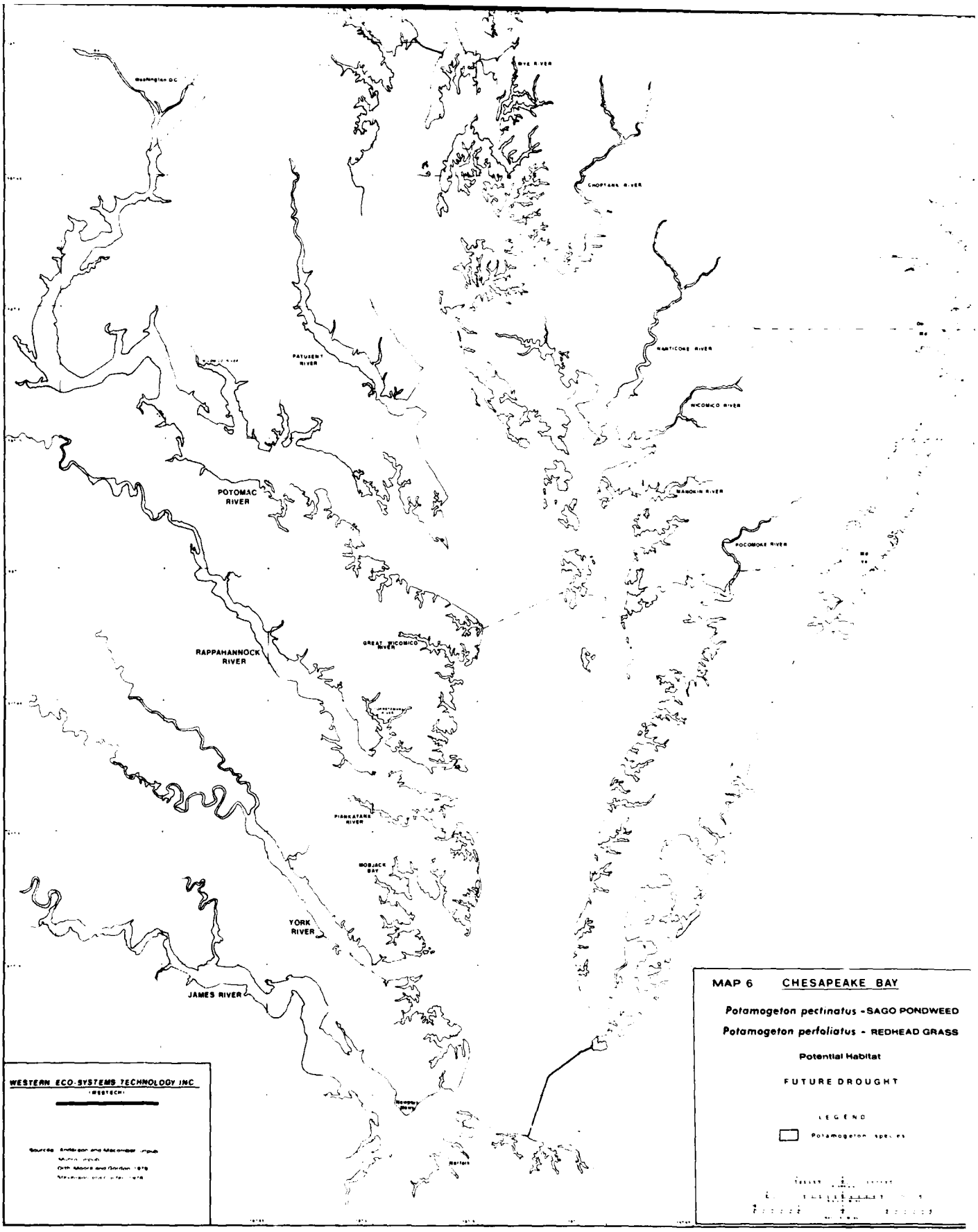
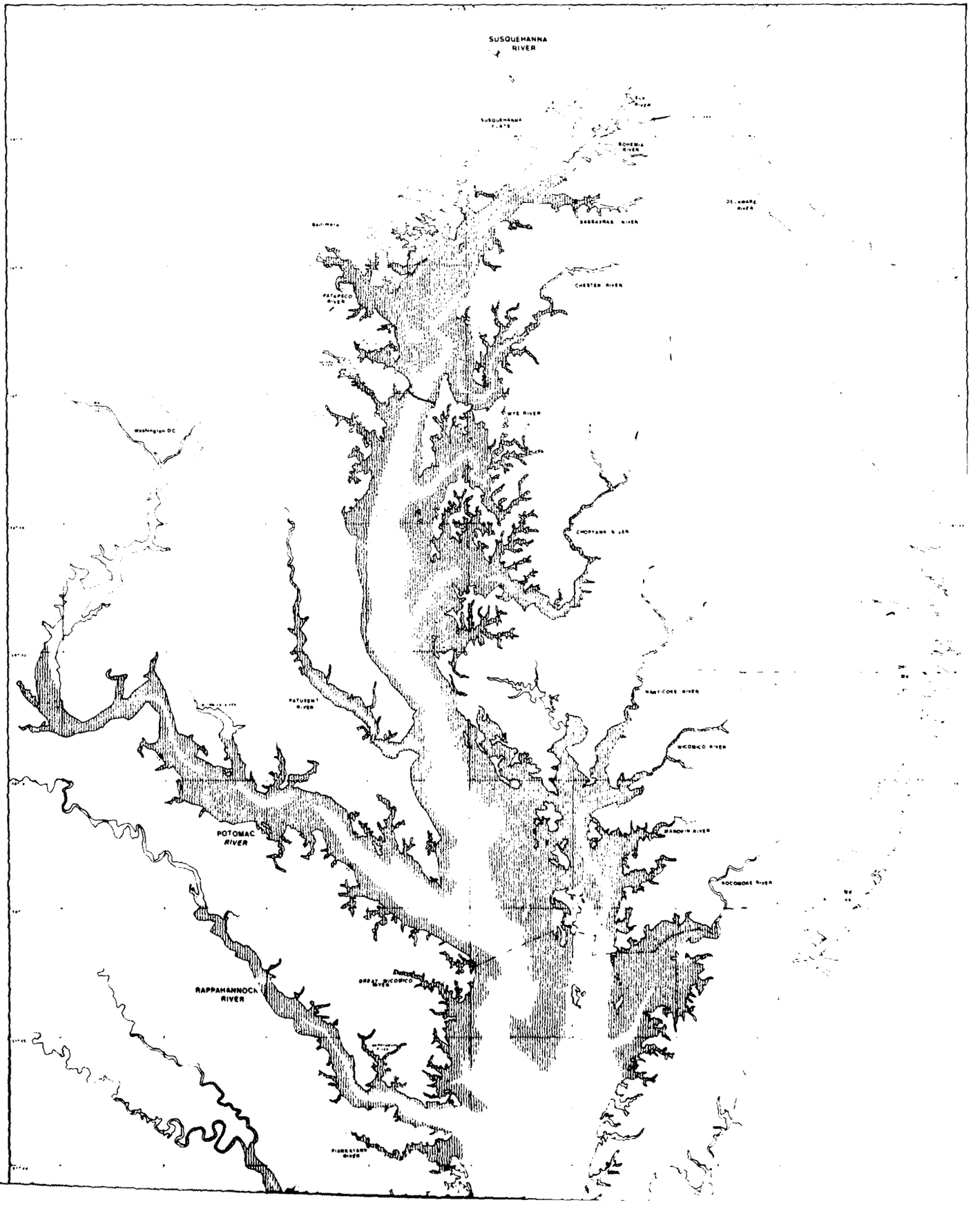

POTOMAC RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 54 CHESAPEAKE BAY
Aythya valisineria - CANVASBACK DUCK
Potential Habitat
WINTER DENSITY
BASE DROUGHT
LEGEND
General Occurrence
Major Concentration
WESTERN ECO SYSTEMS TECHNOLOGY INC.

Plate 89


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER

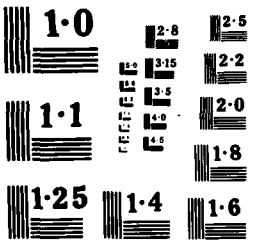

Washington DC
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)
MAP 6 CHESAPEAKE BAY
Potamogeton pectinatus - SAGO PONDWEED
Potamogeton perfoliatus - REDHEAD GRASS
Potential Habitat
FUTURE DROUGHT
LEGEND
Potamogeton species

Plat


SUSQUEMANNA
RIVER
SUSQUEMANNA
FLATS
BOHEMIA
RIVER
DELAWARE
RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO
RIVER
CHESTER RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT
RIVER
HONGOTEAGUE RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC
RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK
RIVER
PIANKATANK
RIVER

AD A161 923 CHESAPEAKE BAY LOW FRESHWATER INFLOW STUDY APPENDIX F MAP FOLIO(U) CORPS OF ENGINEERS BALTIMORE MD BALTIMORE DISTRICT SEP 84 CHB-84-L-APP-F 3/3

UNCLASSIFIED F/G 8/1 NL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1·1
1·25
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2·0
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3·5

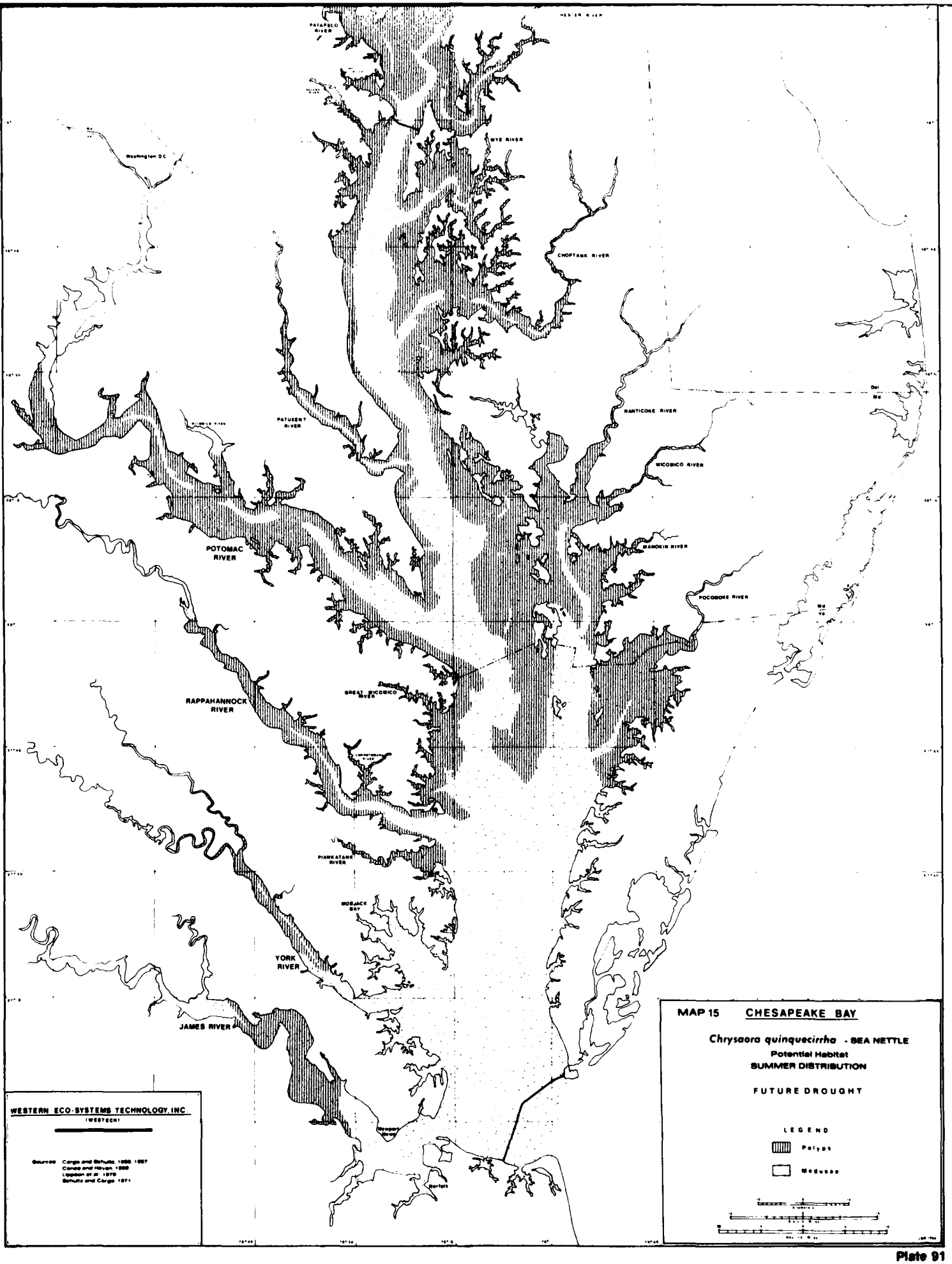
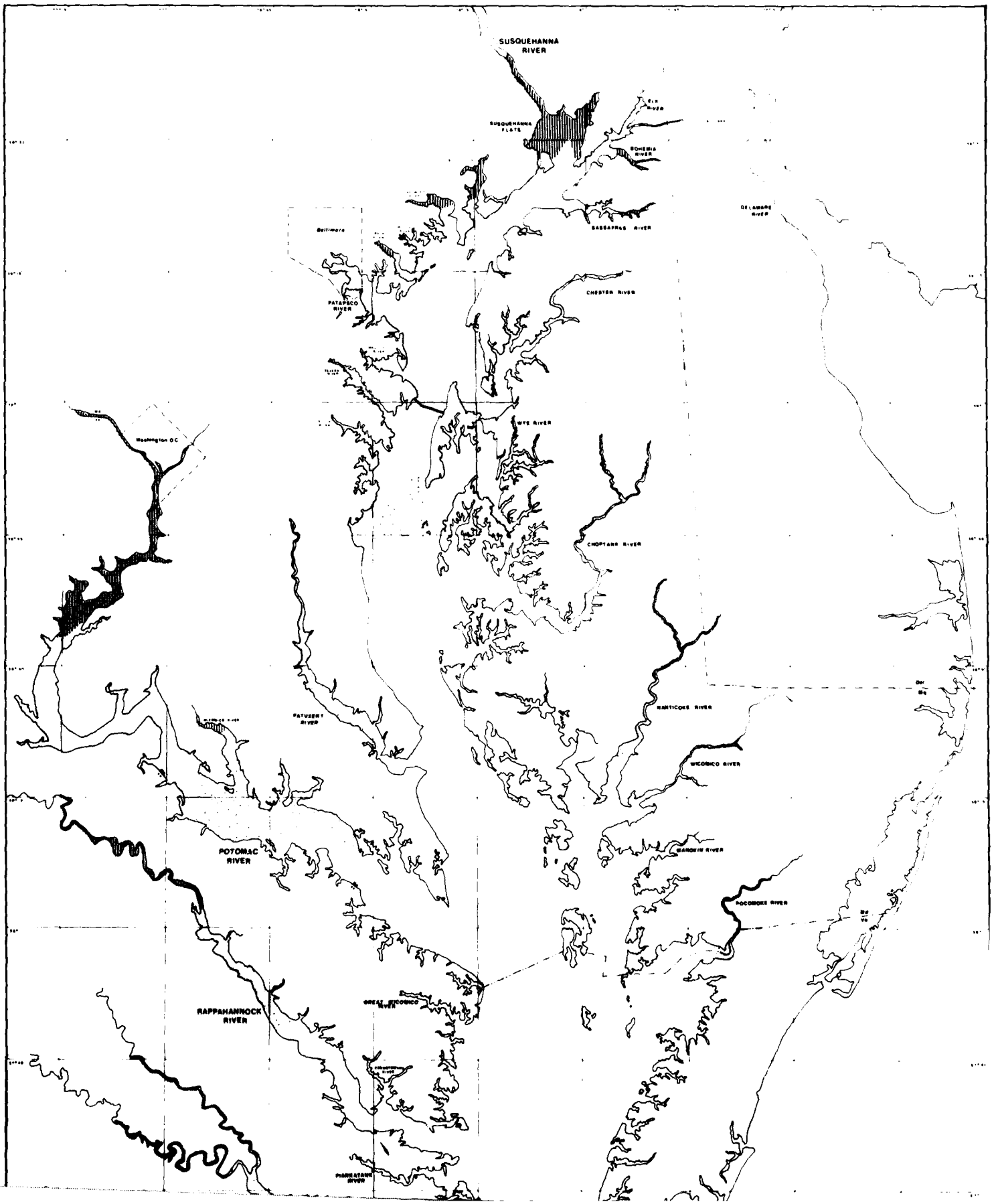

PATAPSCO RIVER
Washington D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
Hampton Roads
Norfolk
WESTERN ECO-SYSTEMS TECHNOLOGY, INC
(WESTECH)
Sources: Cargo and Schultz, 1966, 1967
Cargo and Haven, 1968
Lippson et al. 1979
Schultz and Cargo 1971
MAP 15 CHESAPEAKE BAY
Chrysaora quinquecirrha - SEA NETTLE
Potential Habitat
SUMMER DISTRIBUTION
FUTURE DROUGHT
LEGEND
Polyps
Medusae

Plate 91


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
Baltimore
SASSAFRAS RIVER
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
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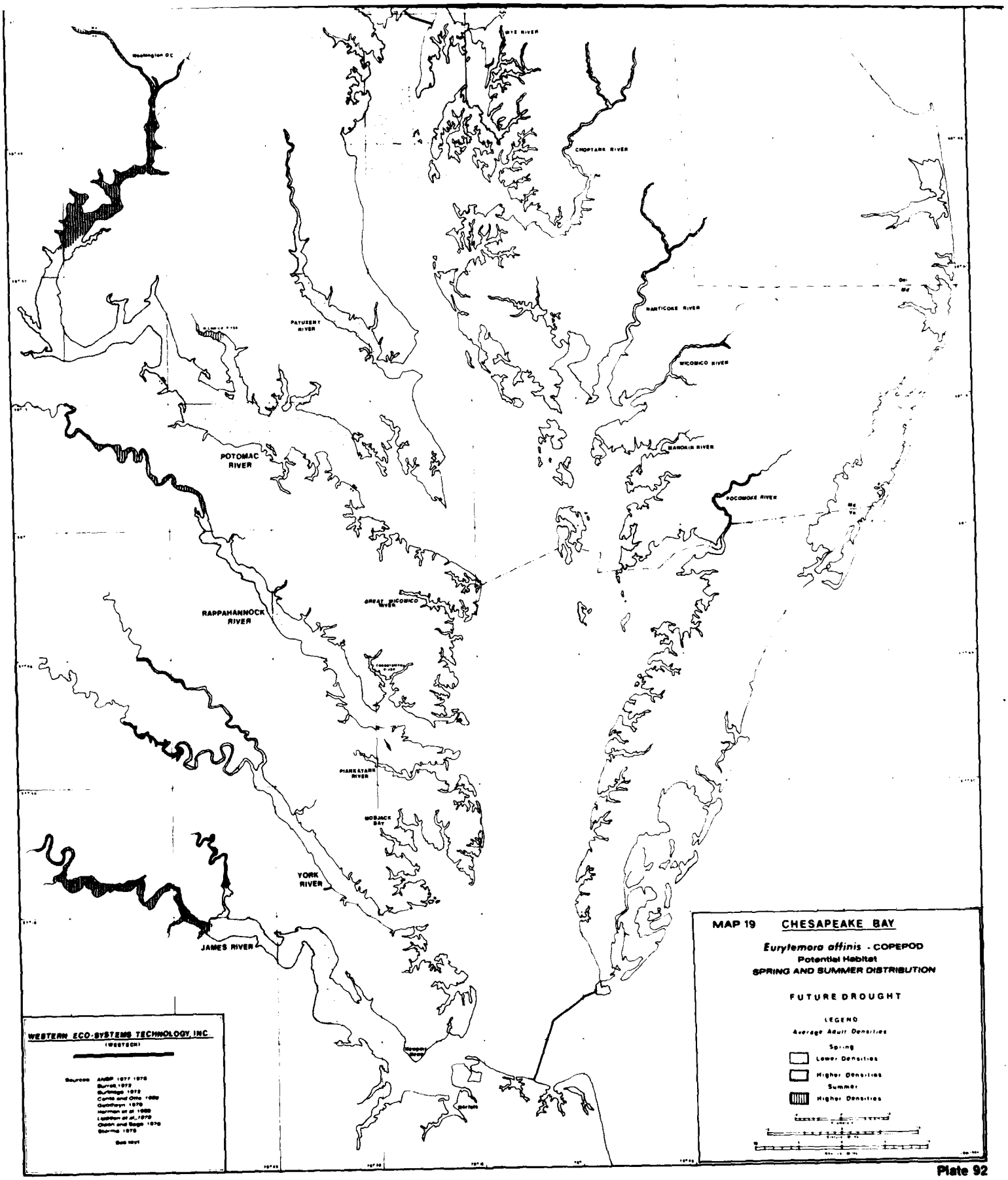
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER


Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
PATUXENT RIVER
RANTICOKE RIVER
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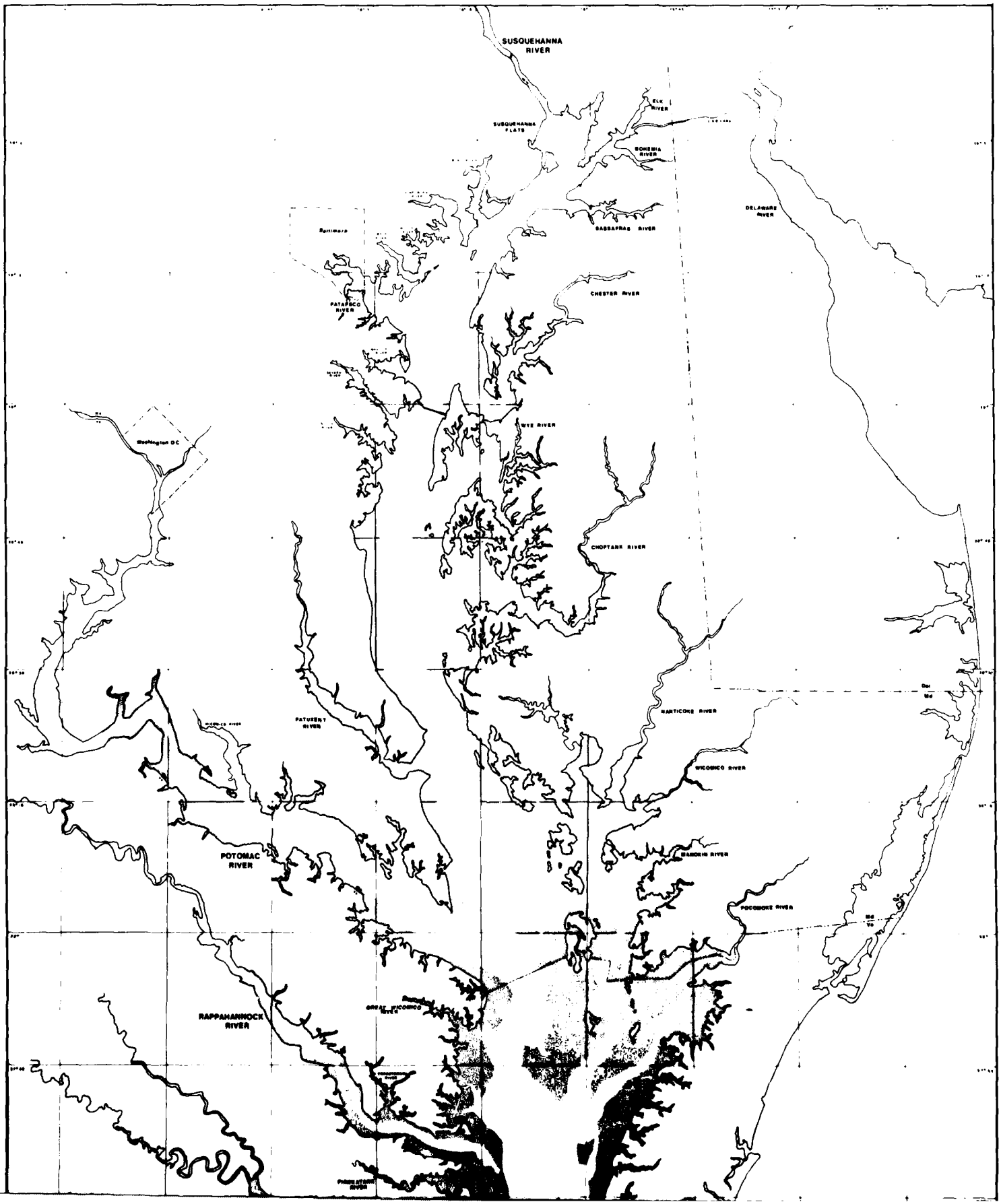
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)
MAP 19 CHESAPEAKE BAY
Eurytemora affinis - COPEPOD
Potential Habitat
SPRING AND SUMMER DISTRIBUTION
FUTURE DROUGHT
LEGEND
Average Adult Densities
Spring
Lower Densities
Higher Densities
Summer
Higher Densities

Plate 92


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER

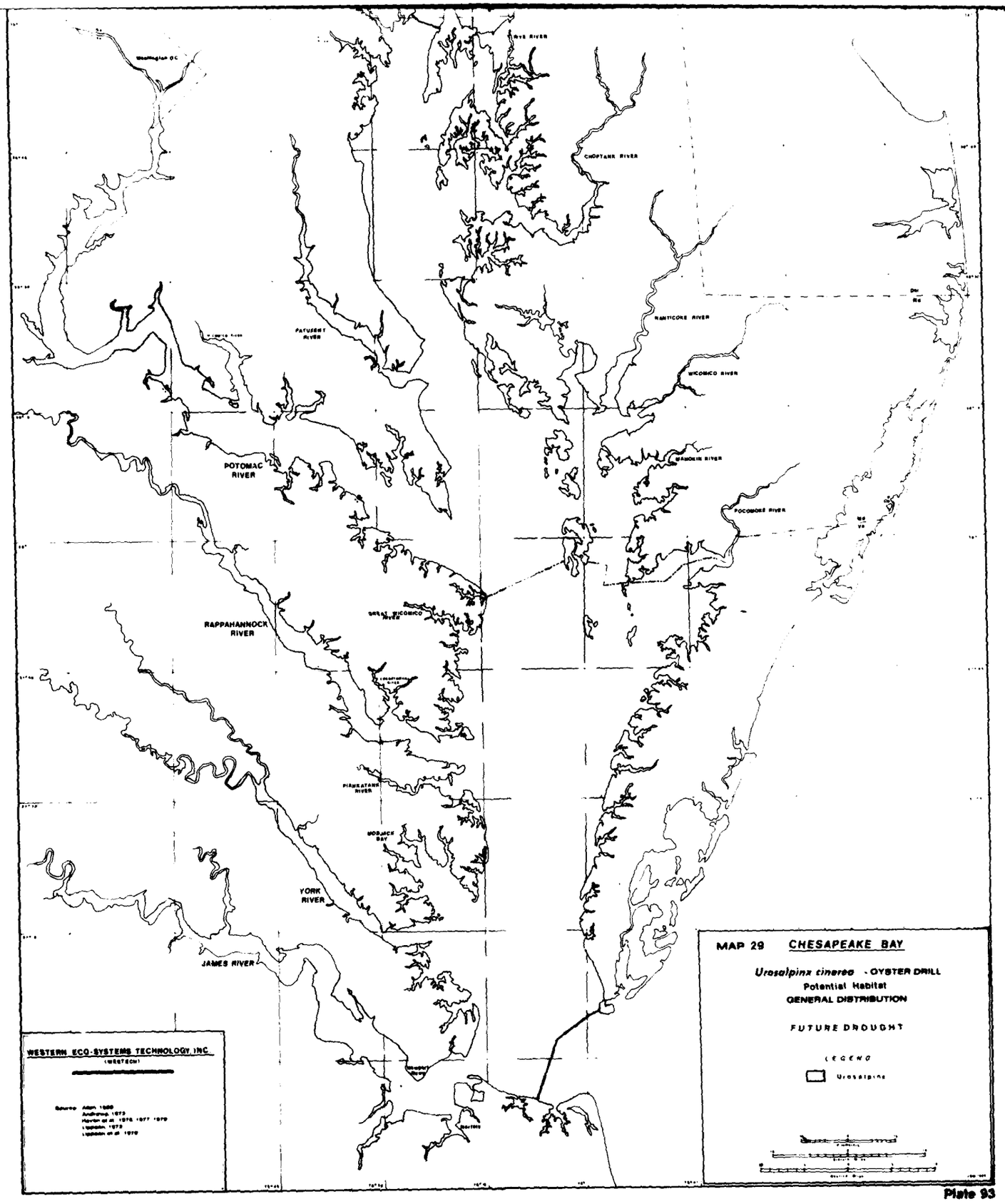
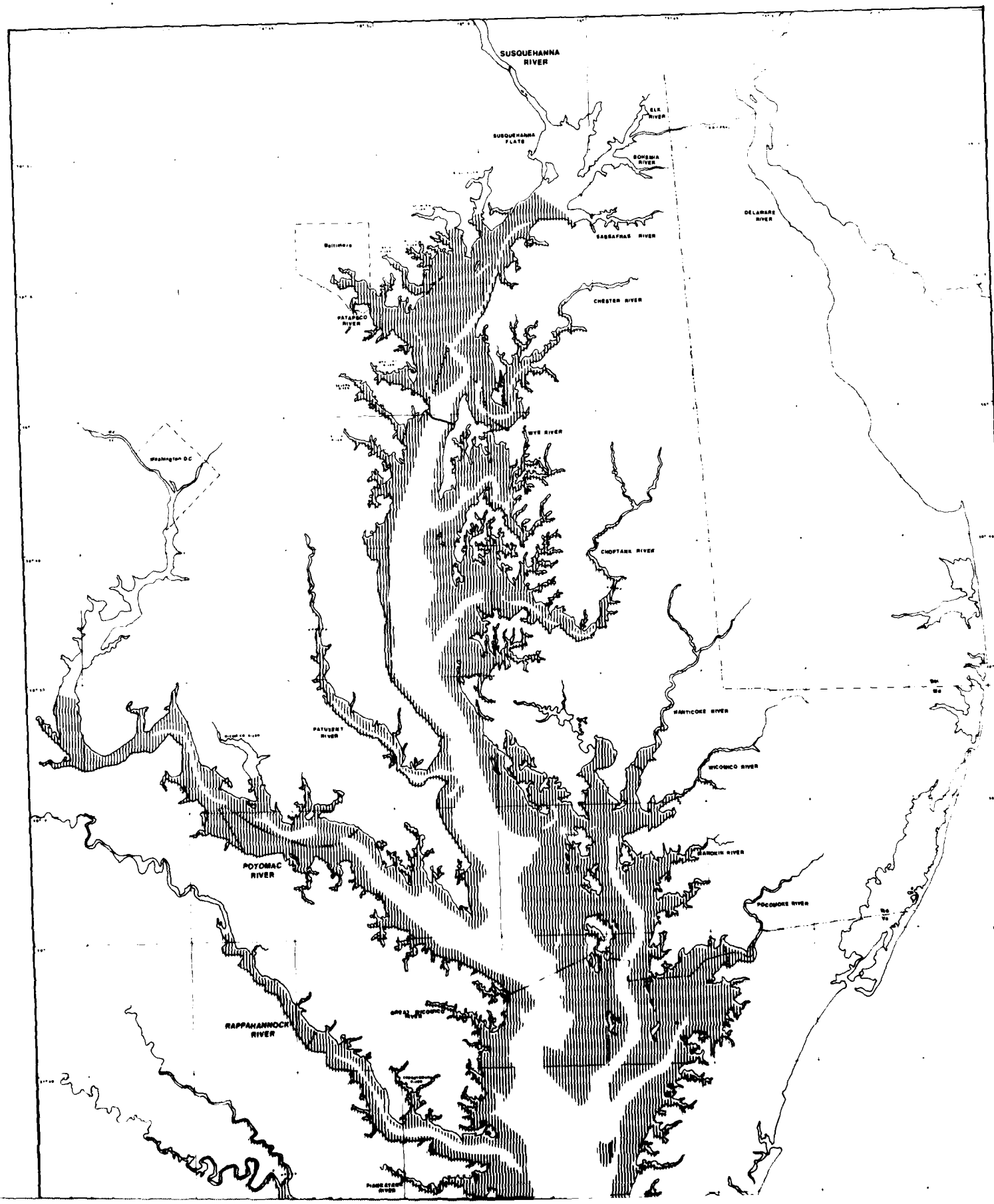

Washington DC
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
YORK RIVER
JAMES RIVER
MAP 29 CHESAPEAKE BAY
Urosalpinx cinerea - OYSTER DRILL
Potential Habitat
GENERAL DISTRIBUTION
FUTURE DROUGHT
LEGEND
Urosalpinx
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)

Plate 93


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
WYE RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
HANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER

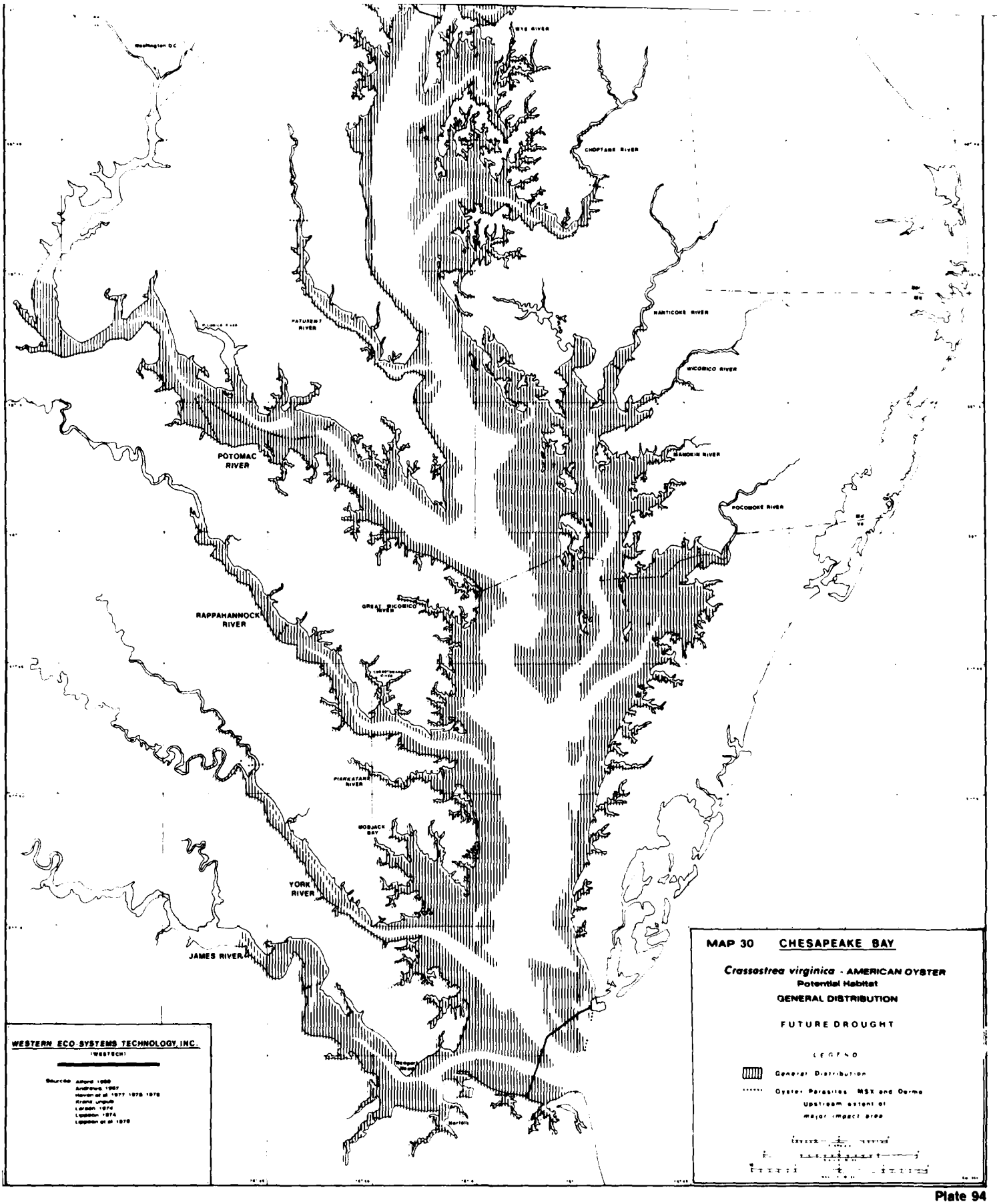
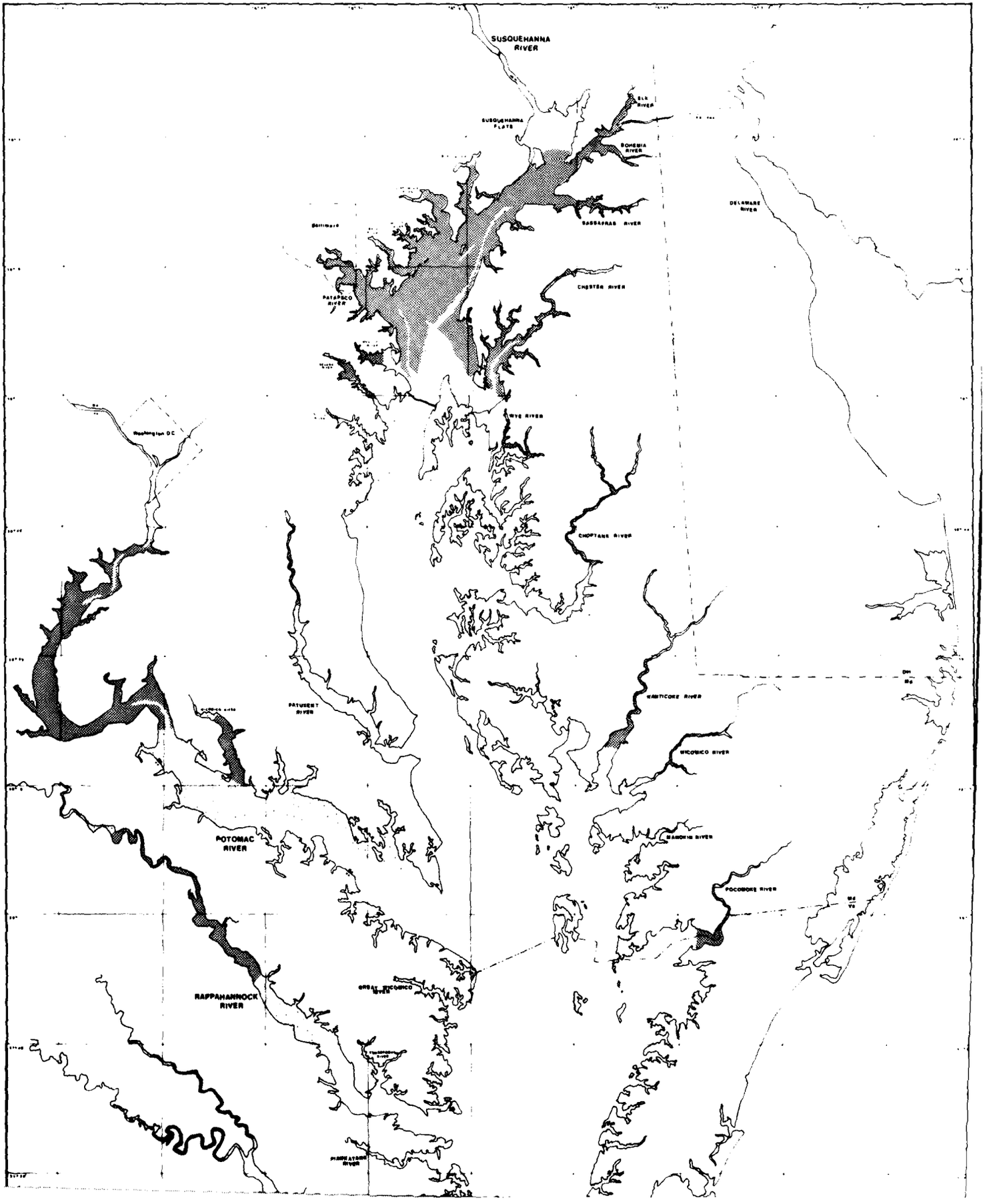
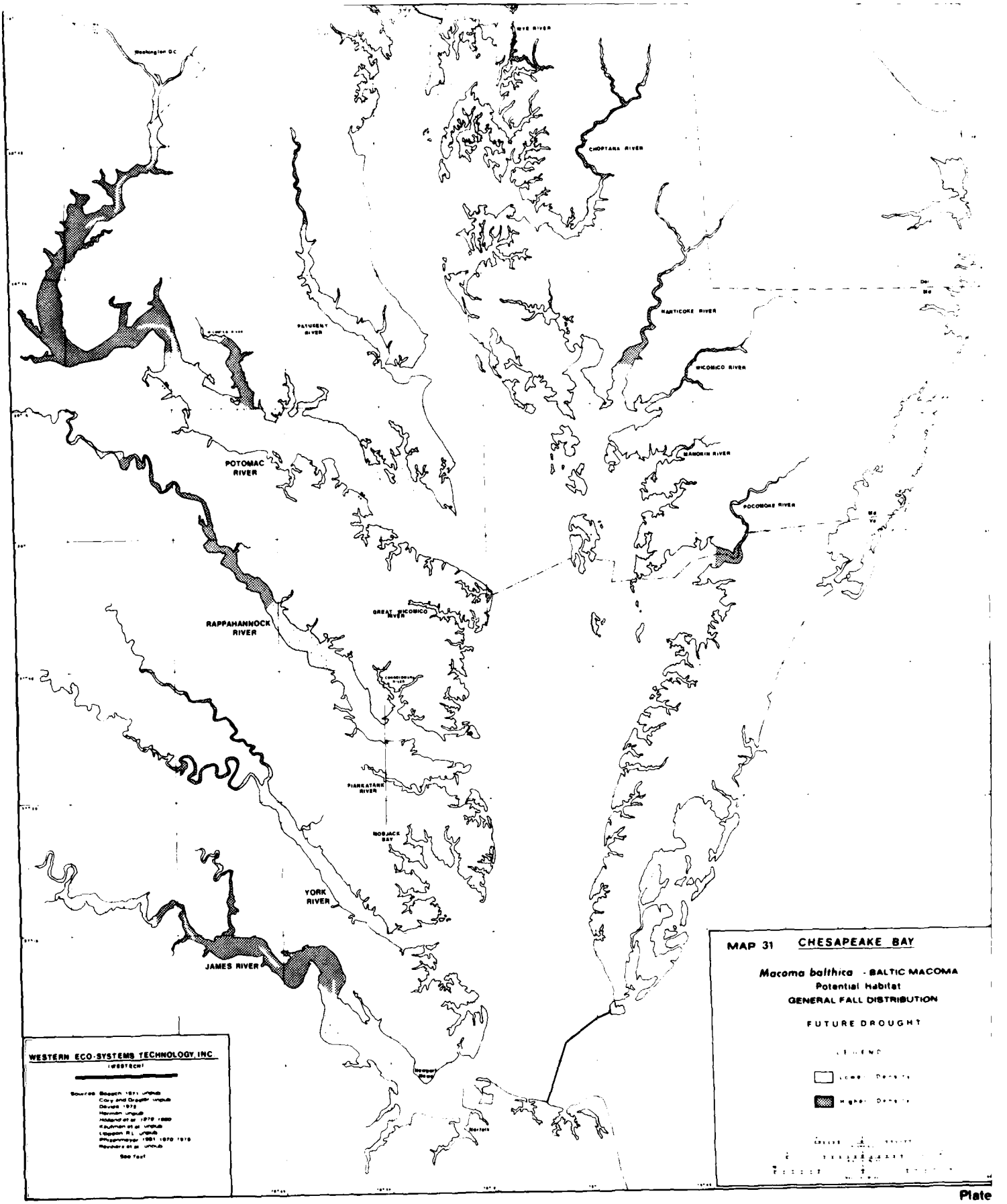
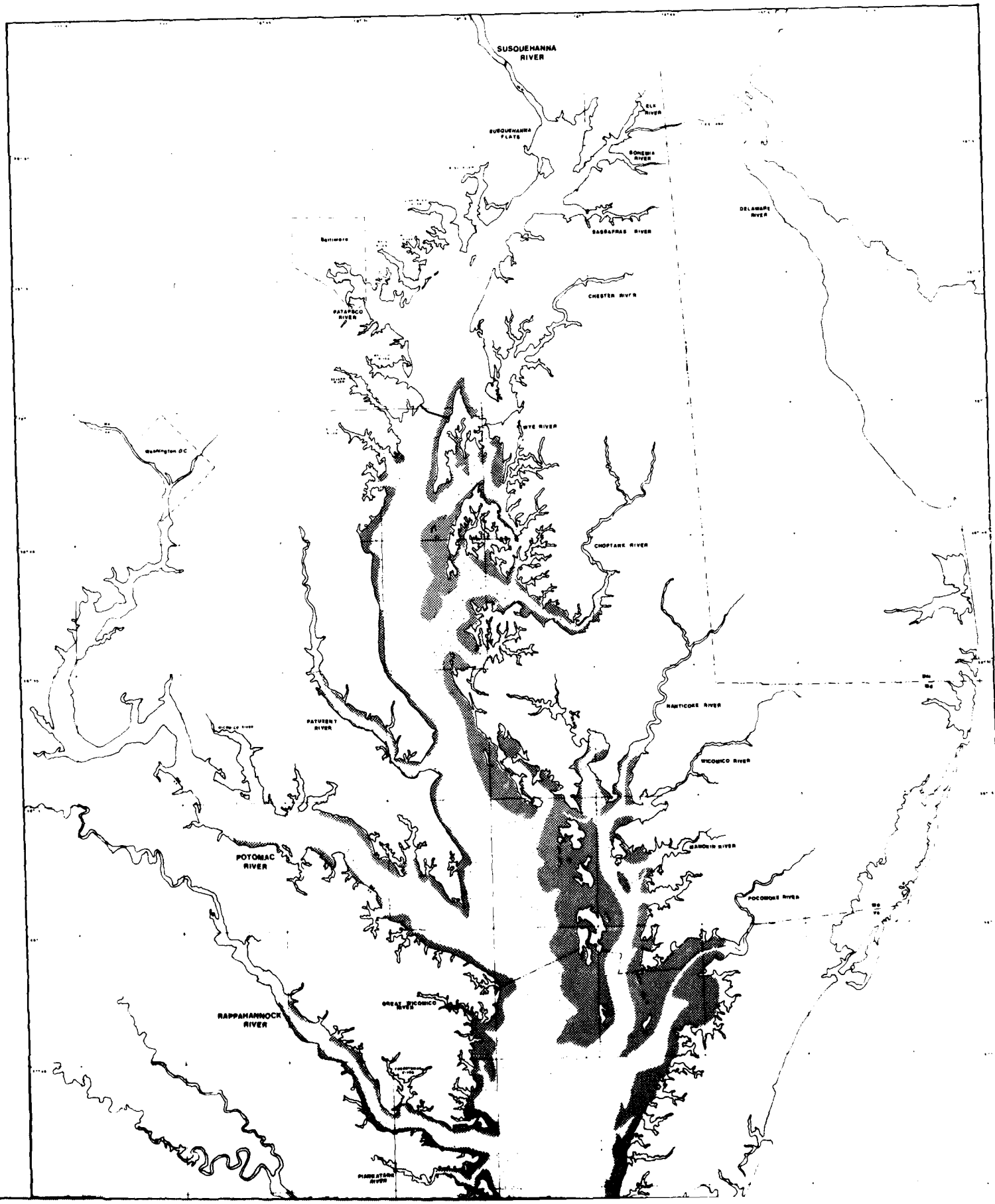

Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
POTOMAC RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
Norfolk
MAP 30 CHESAPEAKE BAY
Crassostrea virginica - AMERICAN OYSTER
Potential Habitat
GENERAL DISTRIBUTION
FUTURE DROUGHT
LEGEND
General Distribution
Oyster Parasites MSX and Dermo
Upstream extent of
major impact area
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)
Source: Alford 1968
Andrews 1967
Haven et al 1977 1978 1979
Krantz unpub
Larson 1974
Lippson 1974
Lippson et al 1979

Plate 94


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER


Washington DC
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
MAP 31 CHESAPEAKE BAY
Macoma balthica - BALTIC MACOMA
Potential Habitat
GENERAL FALL DISTRIBUTION
FUTURE DROUGHT
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.

Plate


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
SONESTA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
MYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
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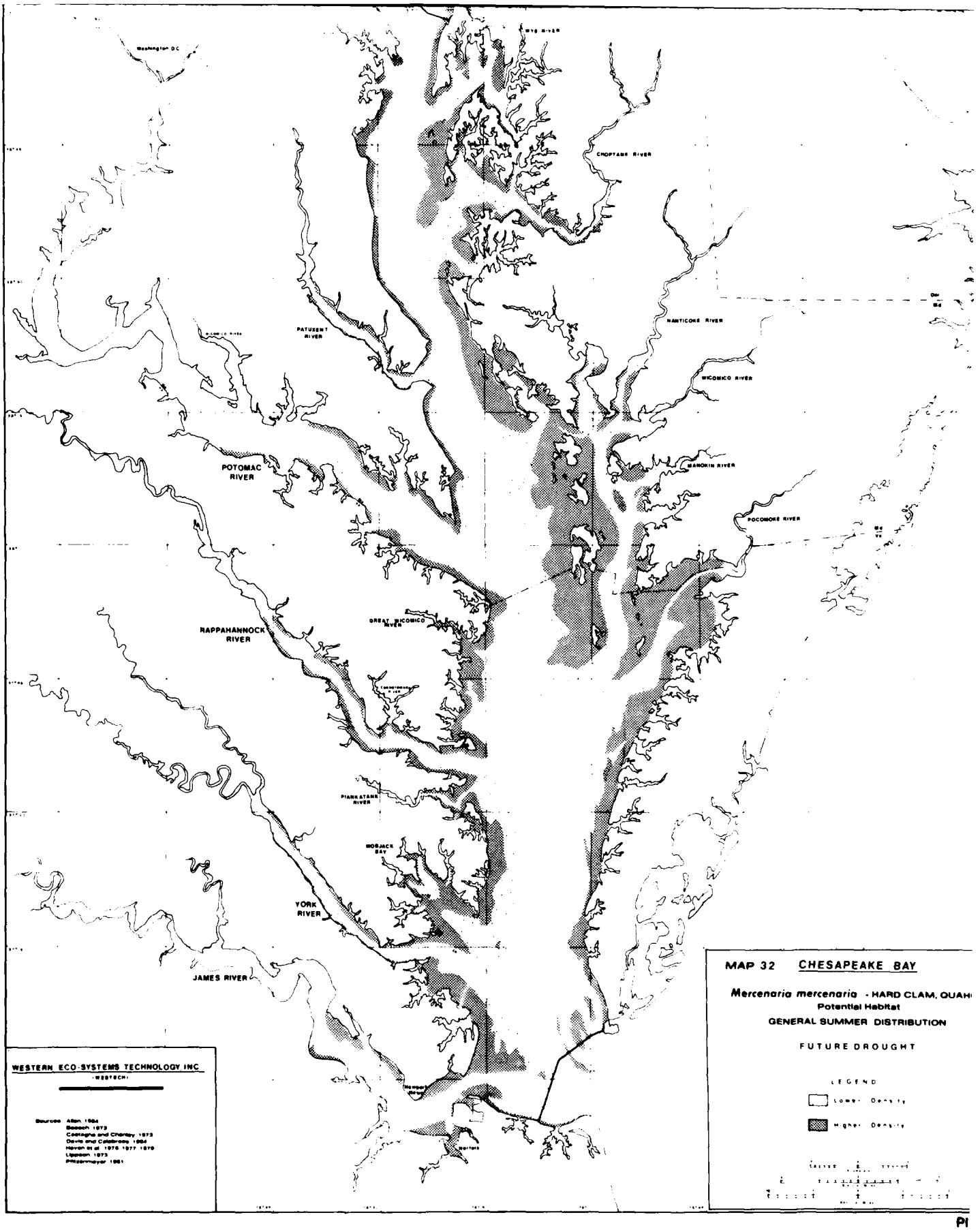
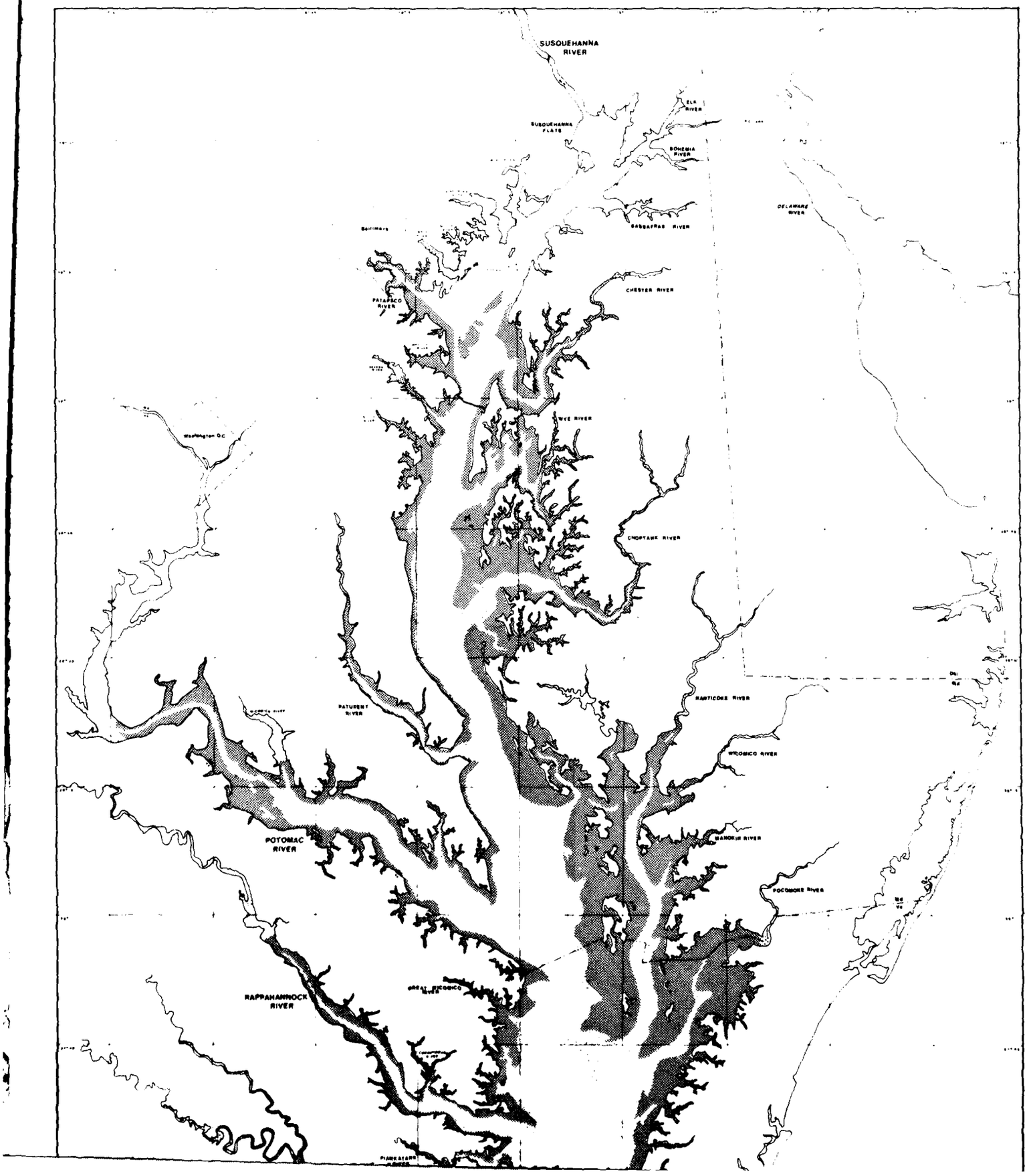
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER


Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER
PIANKATANK RIVER
MOBJACK BAY
YORK RIVER
JAMES RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY INC
Sources: Allen 1984
Boesch 1973
Carriagna and Chanley 1973
Davis and Calabrese 1964
Haven et al 1976 1977 1978
Lippson 1973
Pritchard 1961
MAP 32 CHESAPEAKE BAY
Mercenaria mercenaria - HARD CLAM, QUAH
Potential Habitat
GENERAL SUMMER DISTRIBUTION
FUTURE DROUGHT
LEGEND
Lower Density
Higher Density

PI


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
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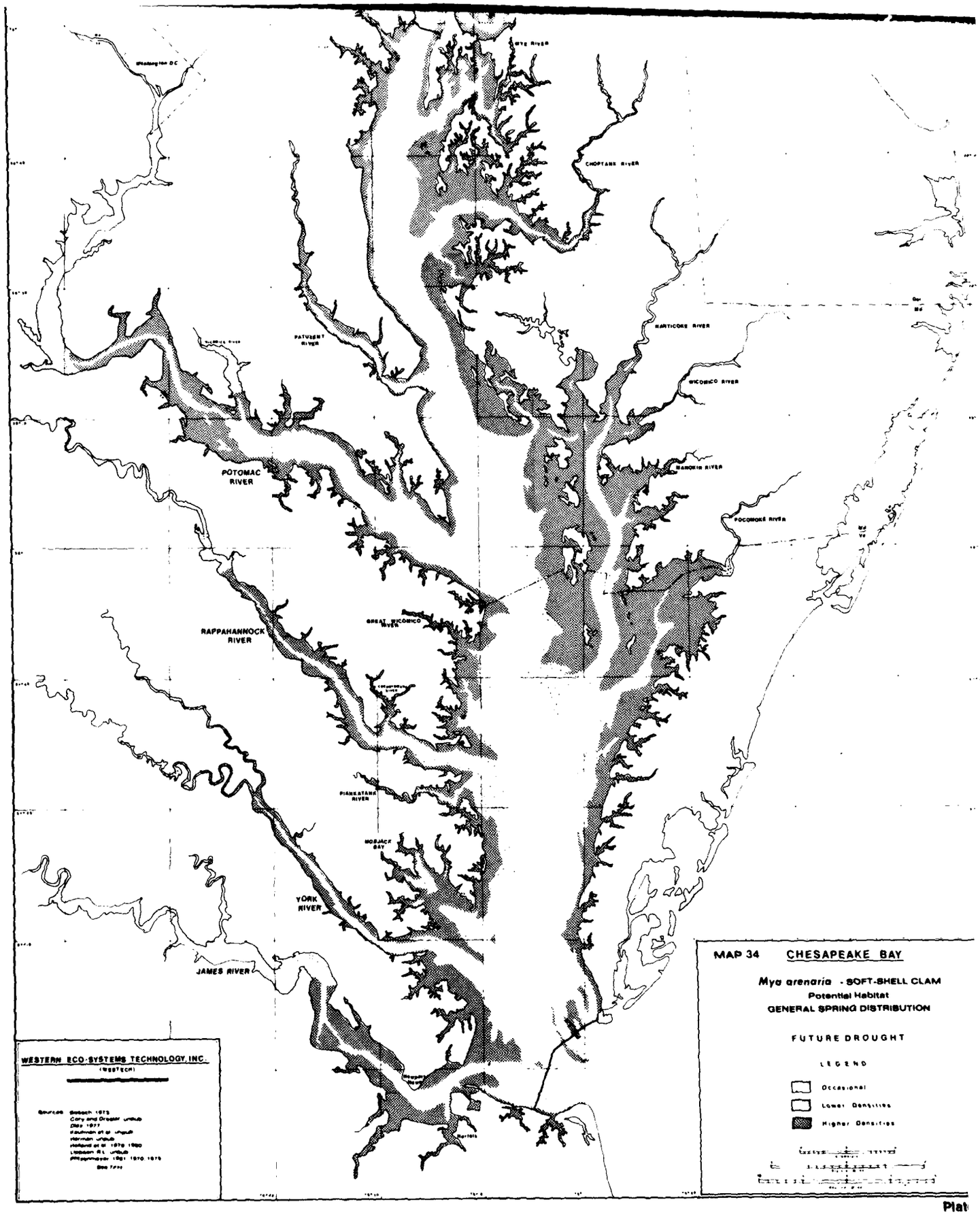
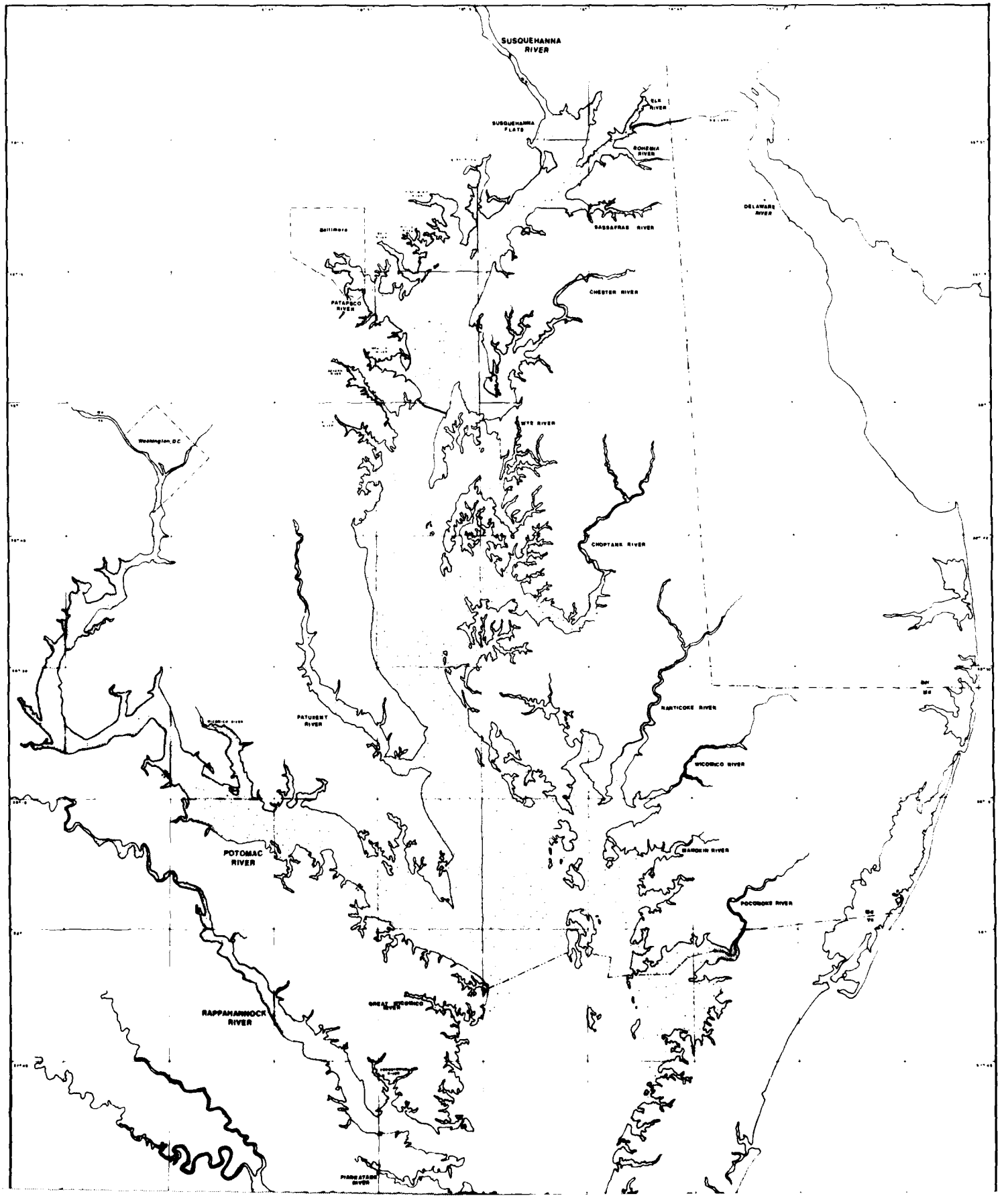
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
POTOMAC RIVER
WICOMICO RIVER
POCOMOKE River


Washington DC
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER
YORK RIVER
JAMES RIVER
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)
MAP 34 CHESAPEAKE BAY
Mya arenaria - SOFT-SHELL CLAM
Potential Habitat
GENERAL SPRING DISTRIBUTION
FUTURE DROUGHT
LEGEND
Occasional
Lower Densities
Higher Densities

Plat


SUSQUEHANNA RIVER
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ELK RIVER
BOHEMIA RIVER
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SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington, D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
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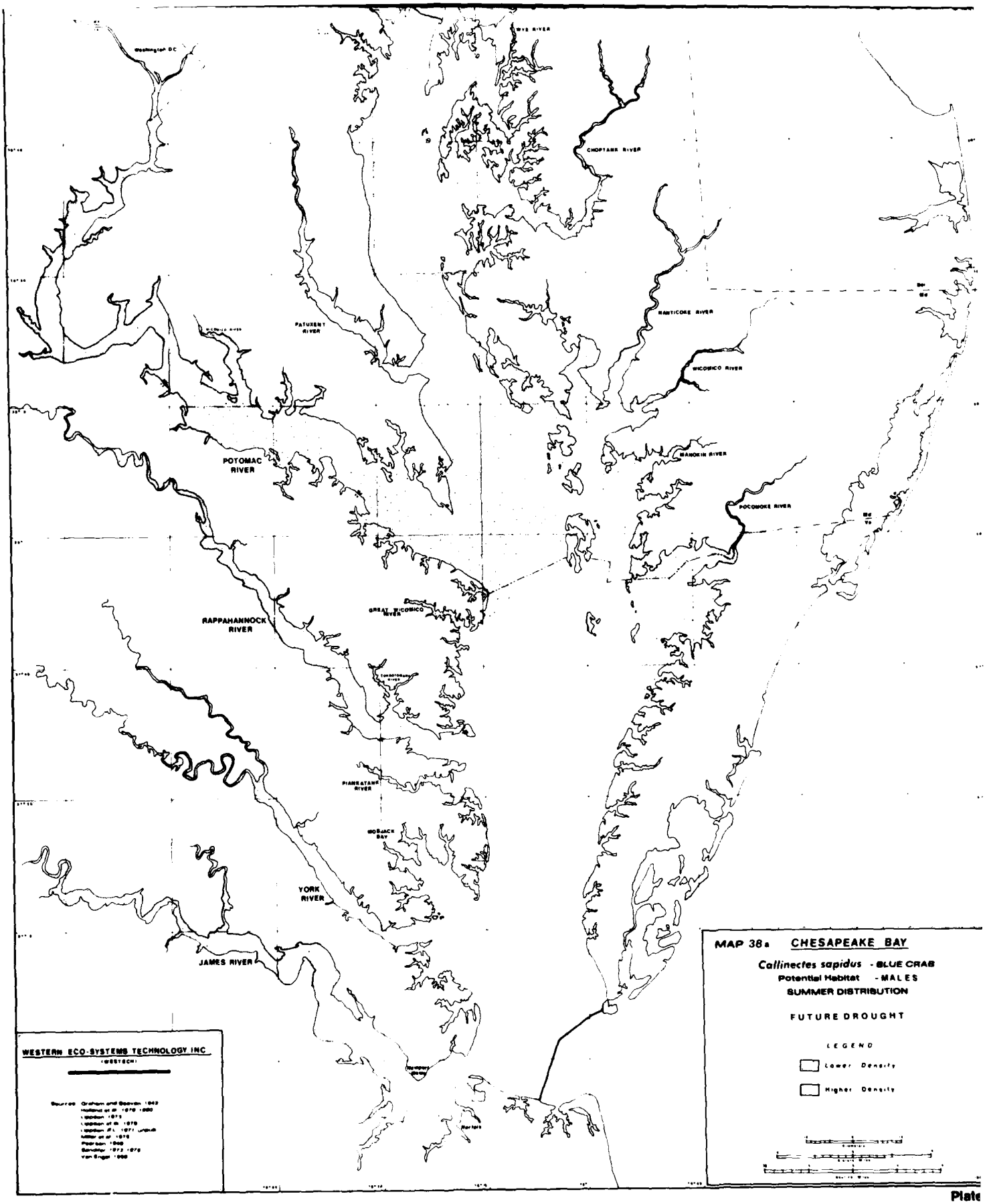
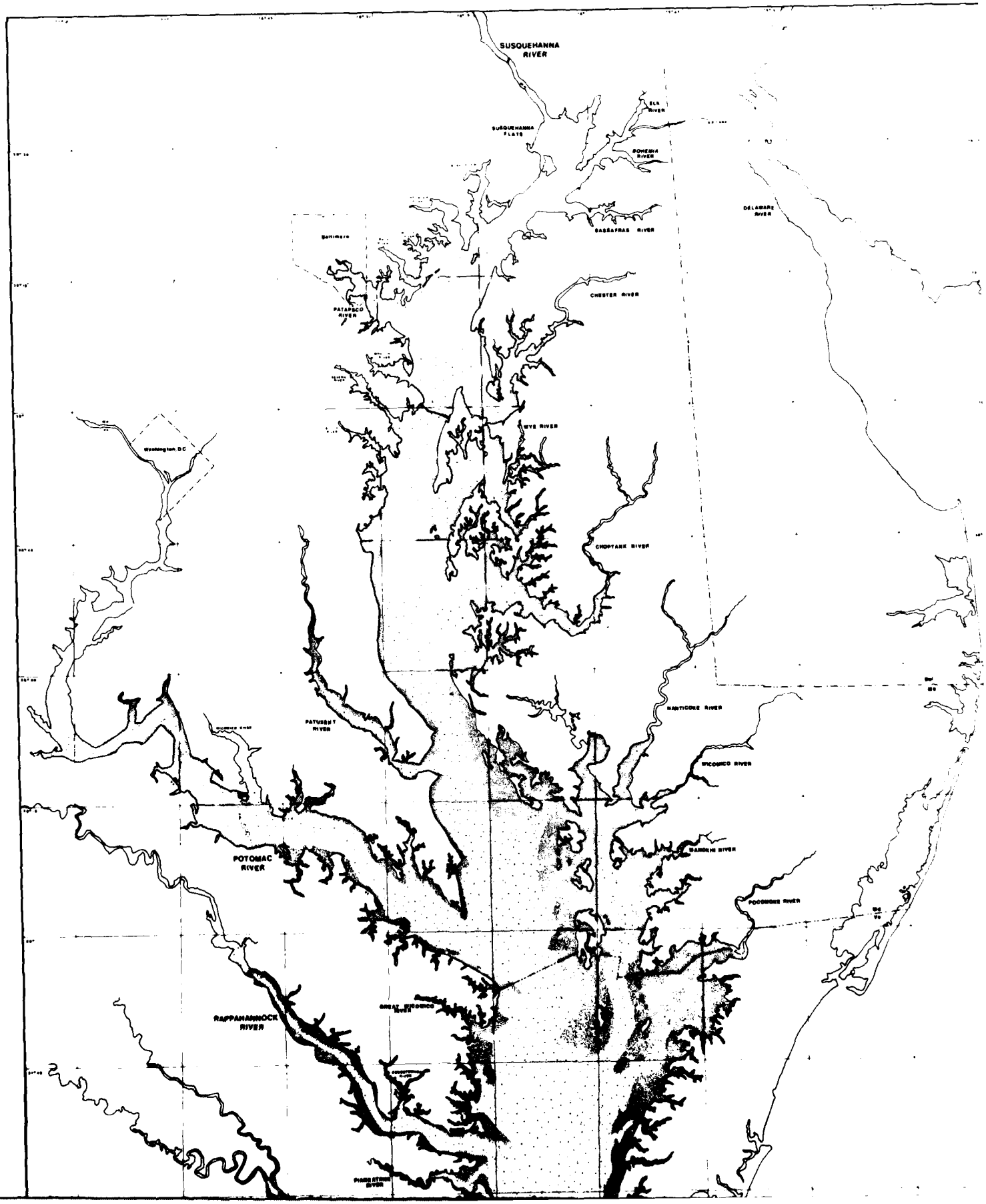
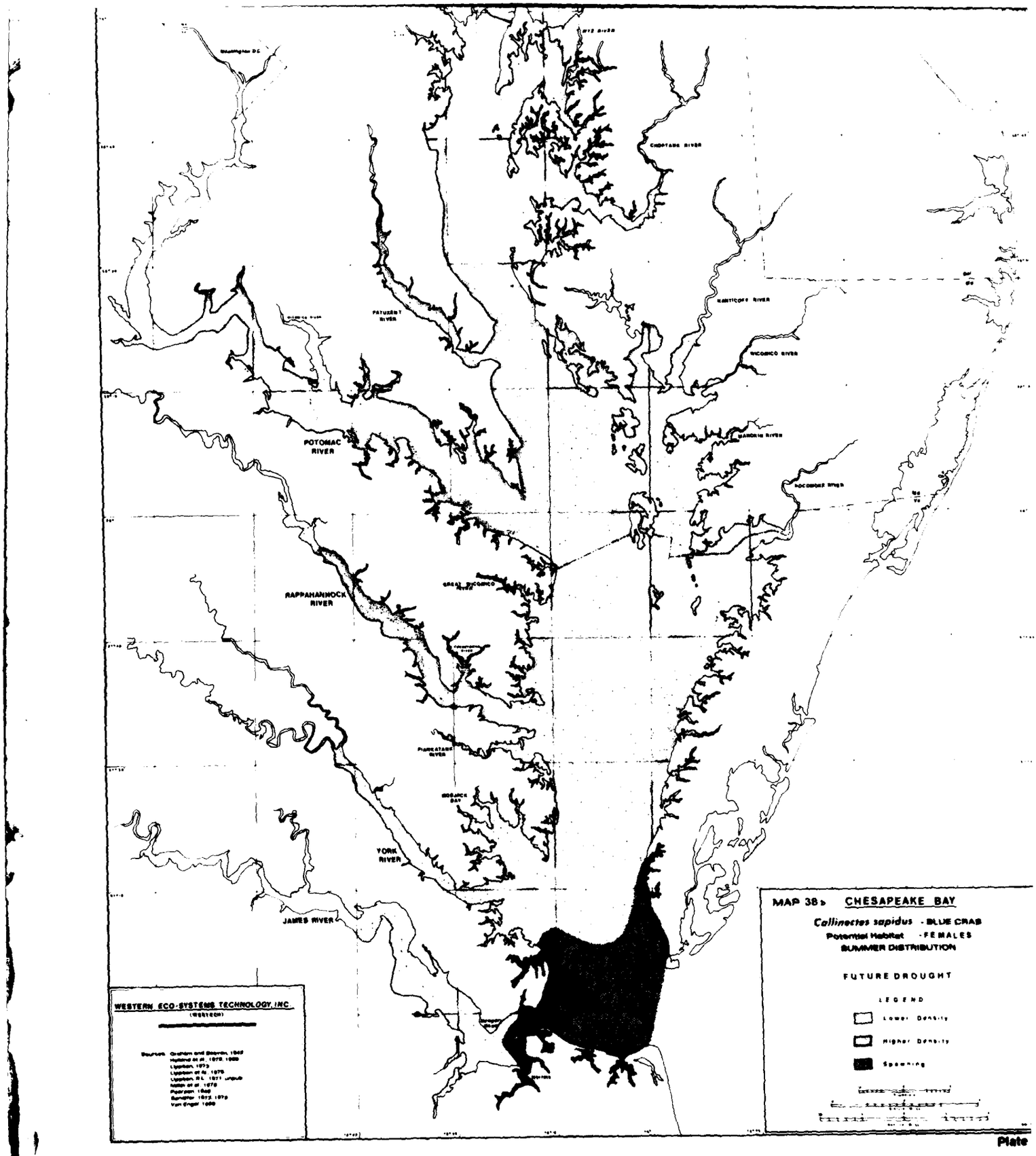
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
PIANKATANK RIVER

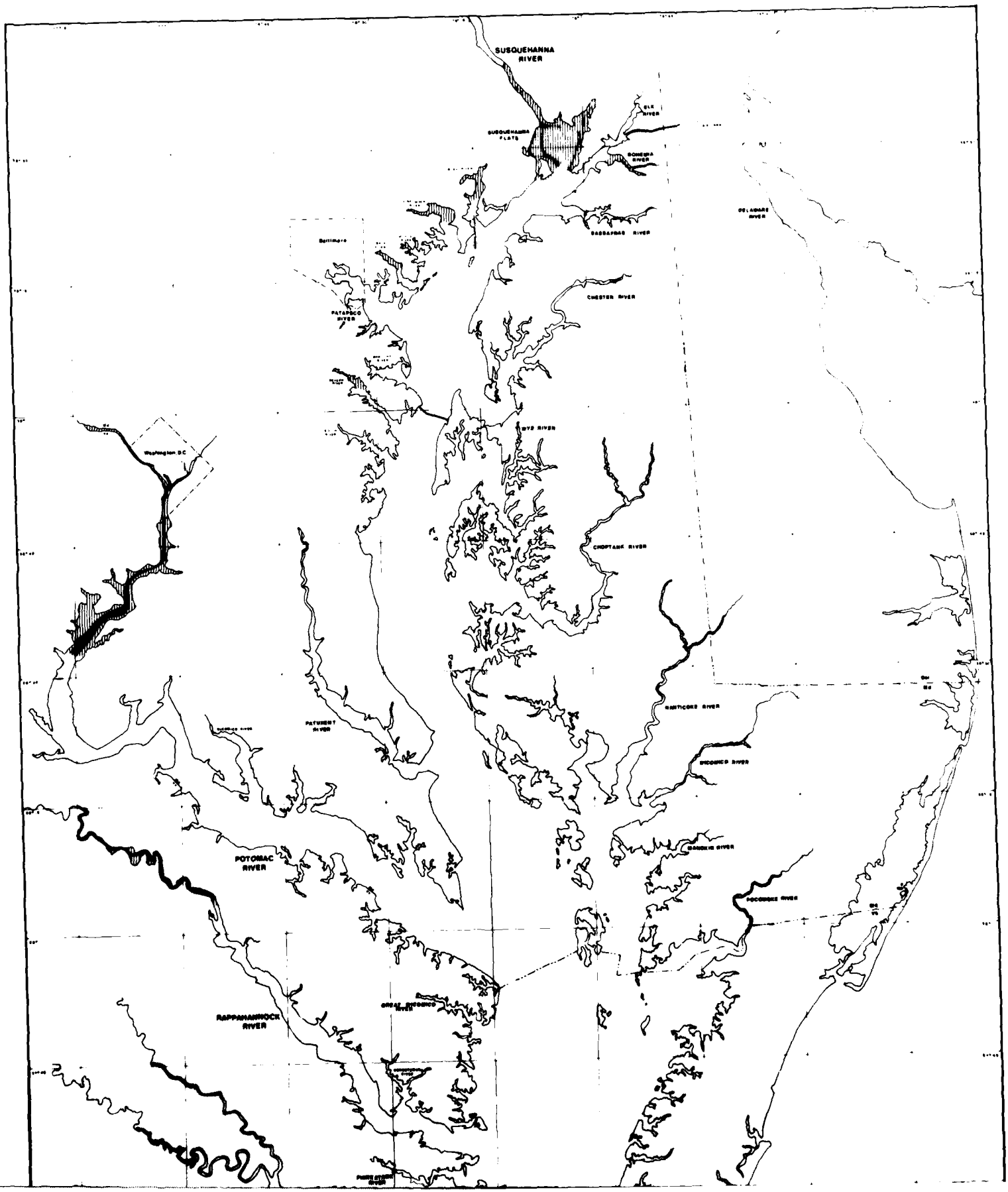

Washington DC
PATUXENT RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
CHOPTANK RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 38a CHESAPEAKE BAY
Callinectes sapidus - BLUE CRAB
Potential Habitat - MALES
SUMMER DISTRIBUTION
FUTURE DROUGHT
LEGEND
Lower Density
Higher Density
WESTERN ECO-SYSTEMS TECHNOLOGY INC
(WESTECH)

Plate


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
CHESTER RIVER
PATAPSCO RIVER
Washington, D.C.
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
MANOKIN RIVER
PIANKATANK RIVER
MOBJACK BAY
MAP 38 CHESAPEAKE BAY
Callinectes sapidus - BLUE CRAB
Potential Habitat - FEMALES
SUMMER DISTRIBUTION
FUTURE DROUGHT
LEGEND
Lower Density
Higher Density
Spawning
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.

Plate


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS RIVER
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
SOUTH RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
POTOMAC RIVER
ANNEMESSEX RIVER
RAPPAHANNOCK RIVER

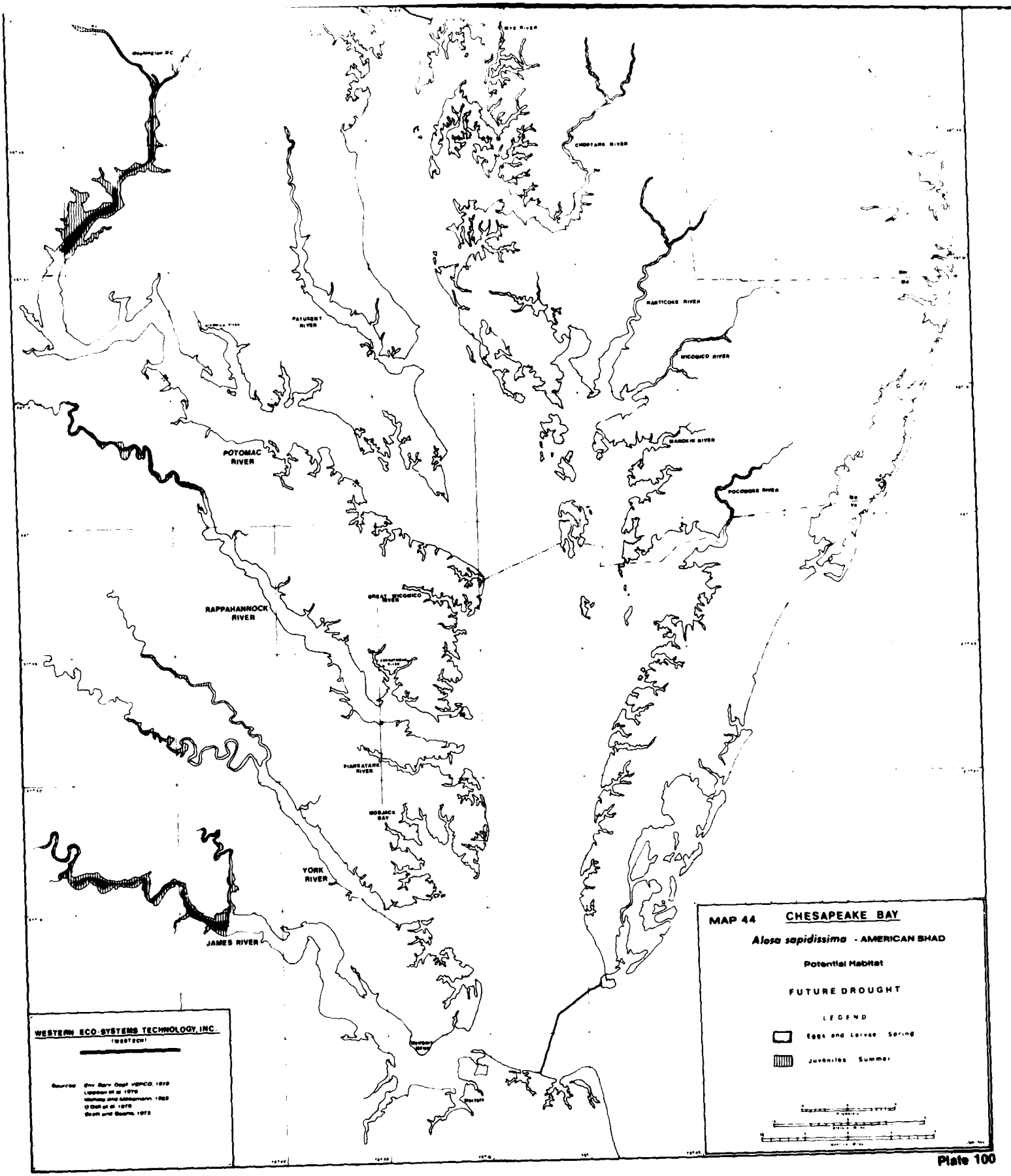
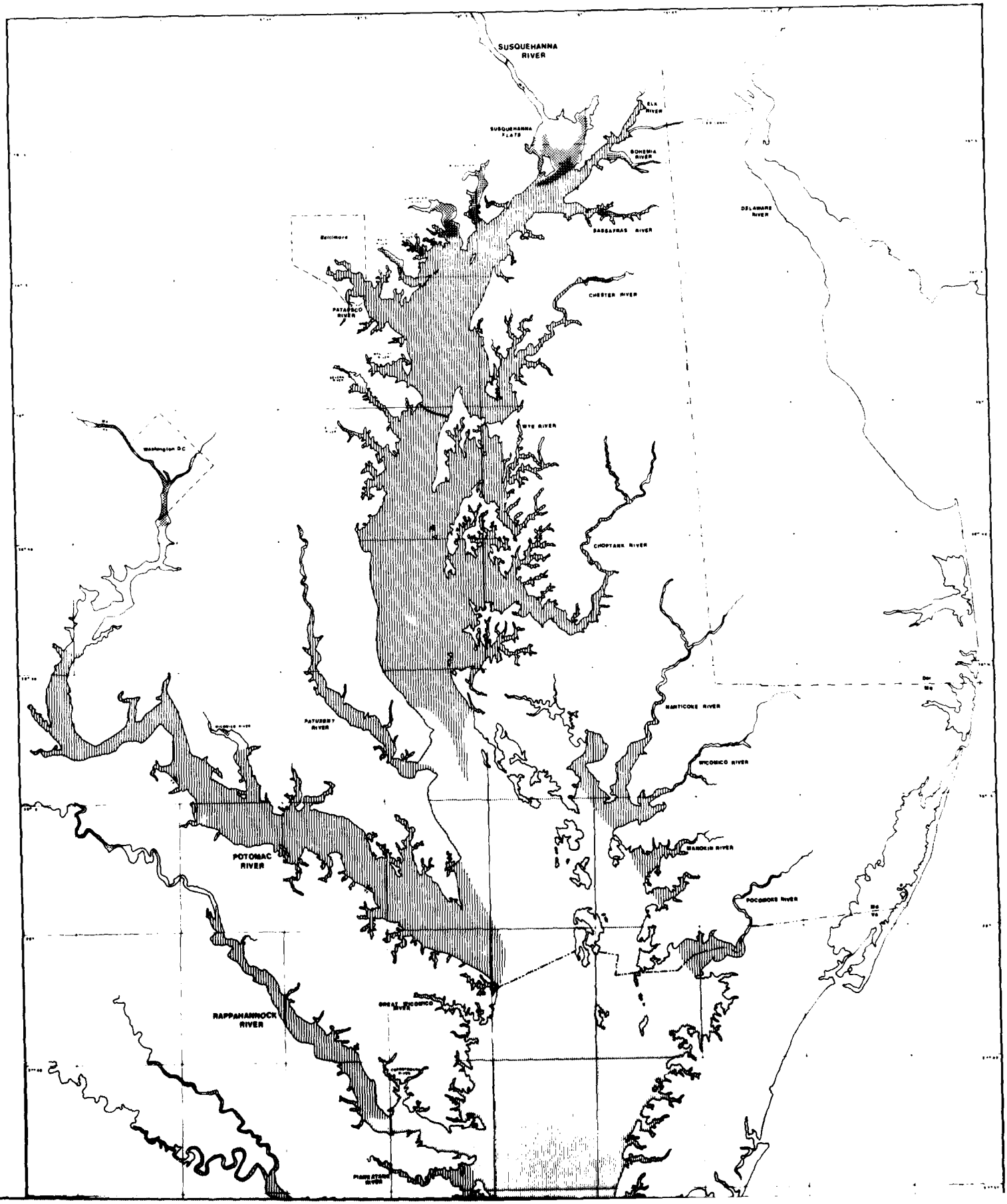

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 44 CHESAPEAKE BAY
Alosa sapidissima - AMERICAN SHAD
Potential Habitat
FUTURE DROUGHT
LEGEND
Eggs and Larvae Spring
Juveniles Summer
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)

Plate 100


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington D.C.
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
Great Wicomico River
PIANKATANK RIVER

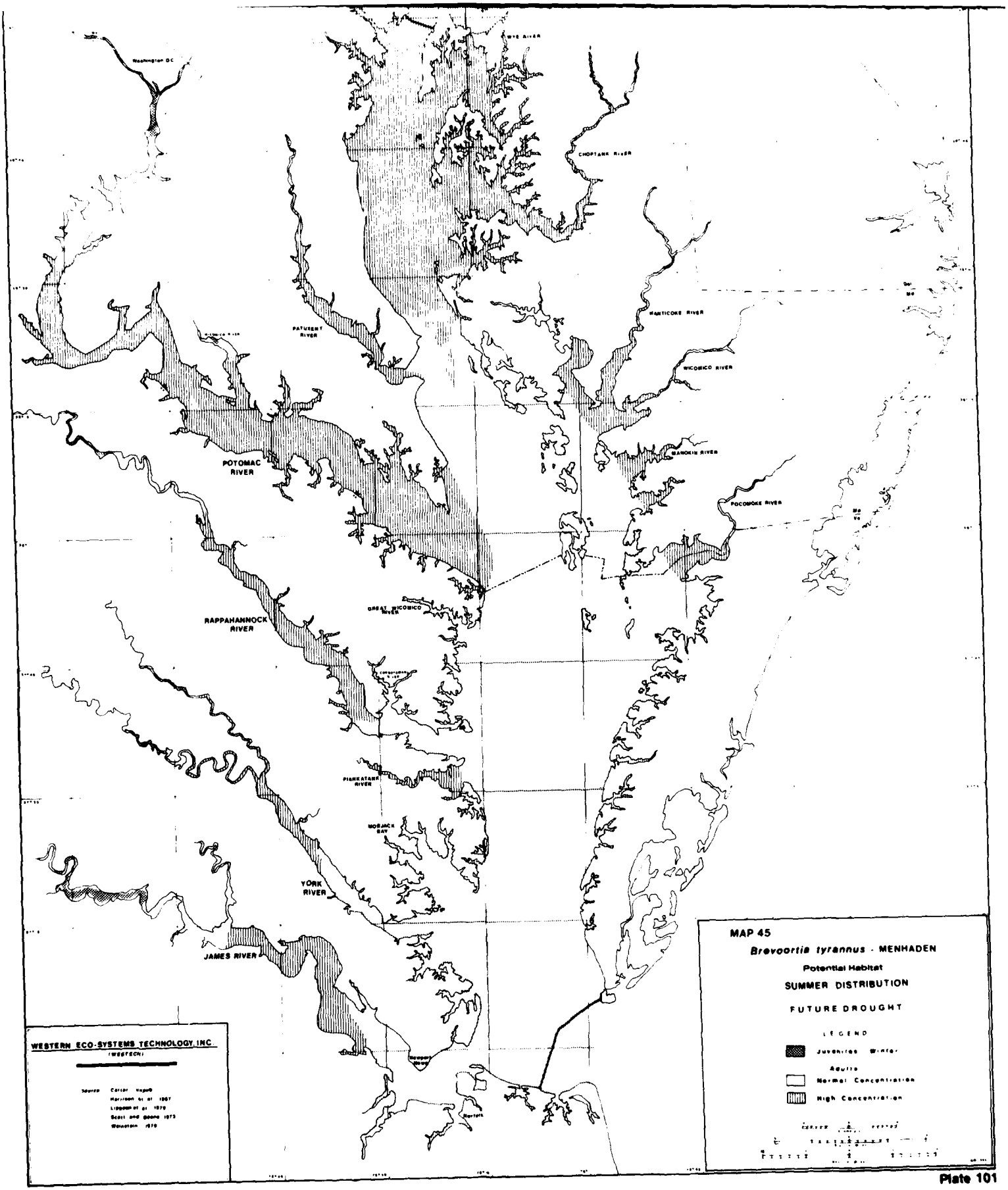
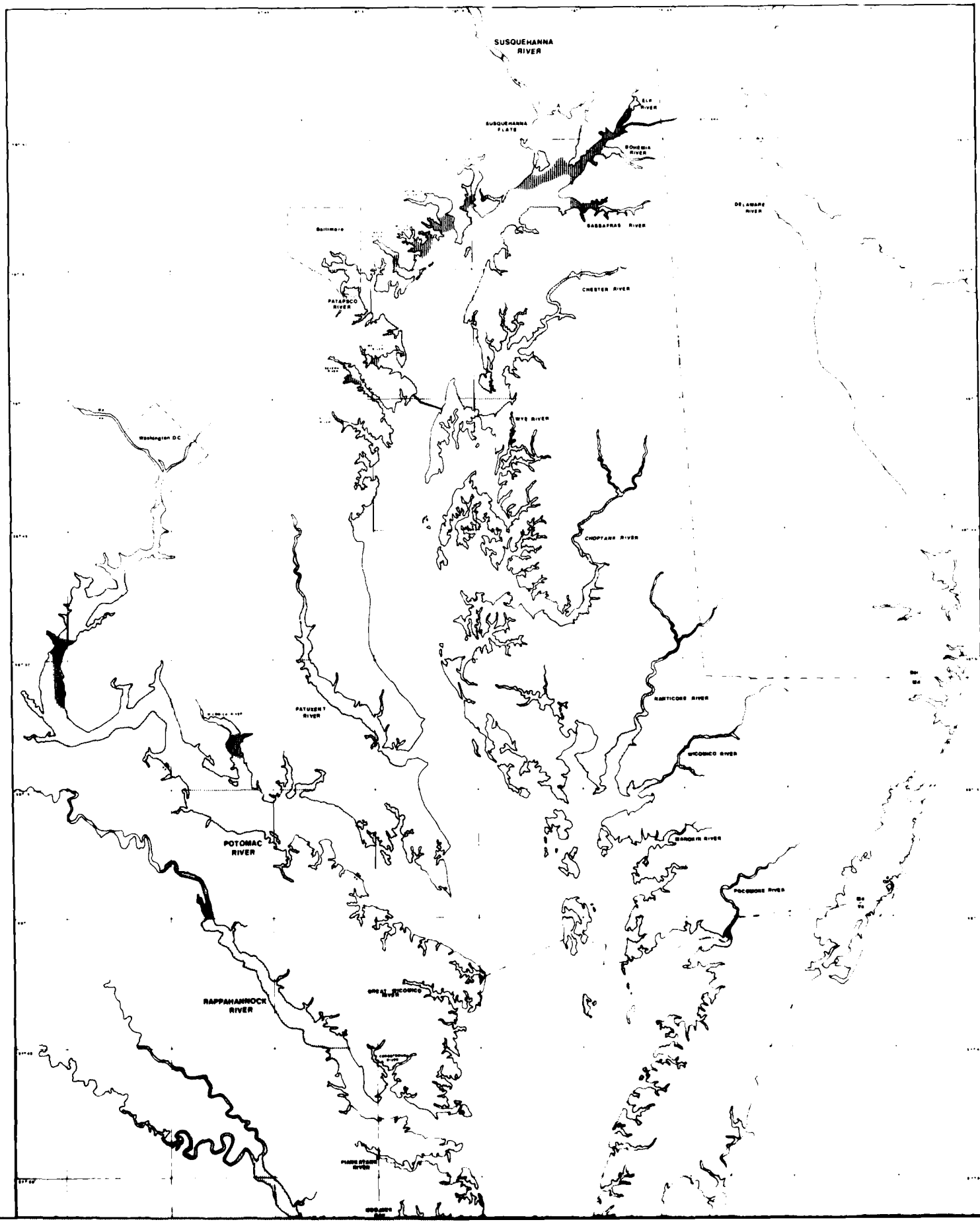

Washington DC
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 45
Brevoortia tyrannus - MENHADEN
Potential Habitat
SUMMER DISTRIBUTION
FUTURE DROUGHT
LEGEND
Juveniles Winter
Adults
Normal Concentration
High Concentration
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)

Plate 101


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
SASSAFRAS River
DELAWARE RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
POTOMAC RIVER
WICOMICO RIVER
PIANKATANK RIVER

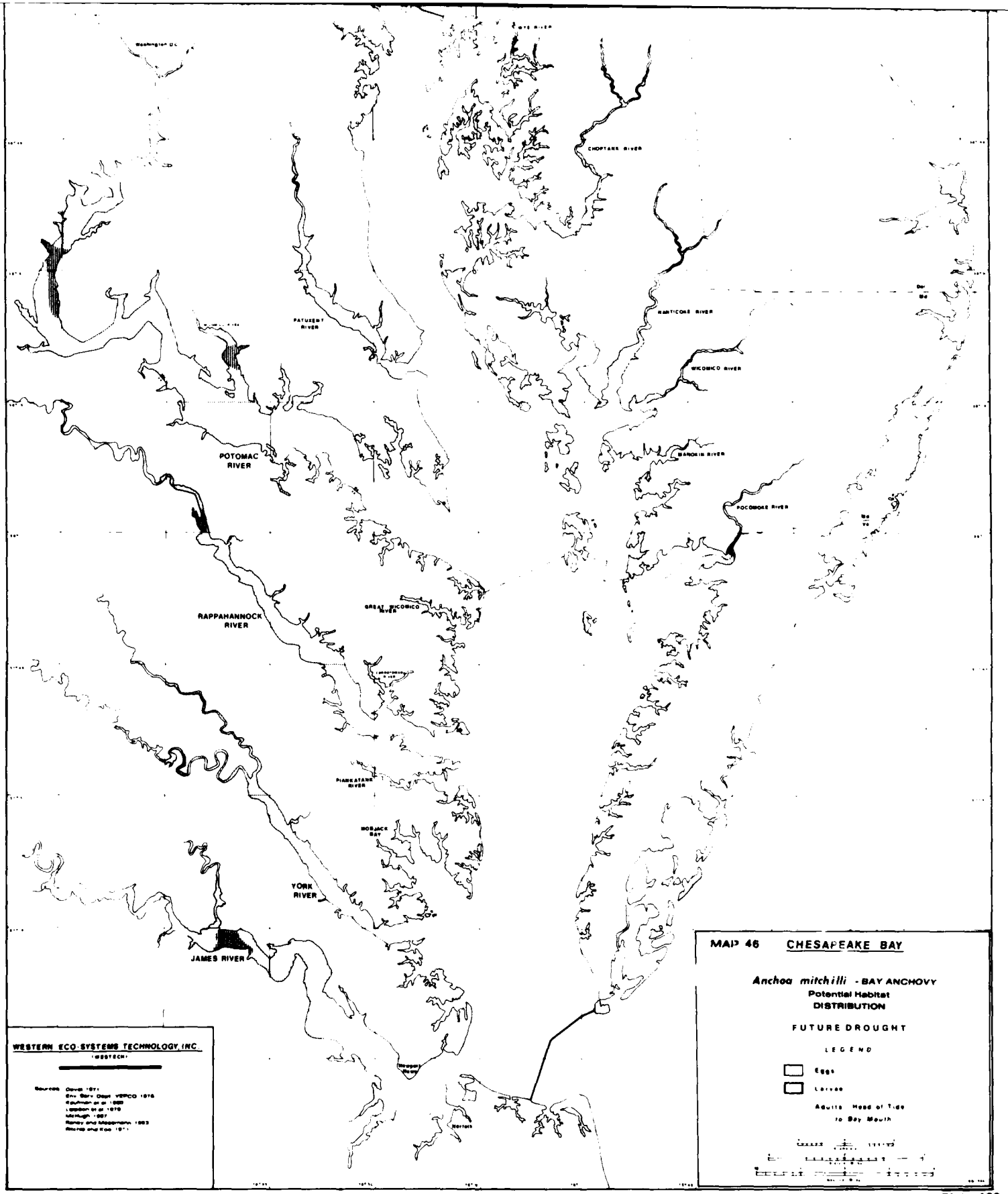
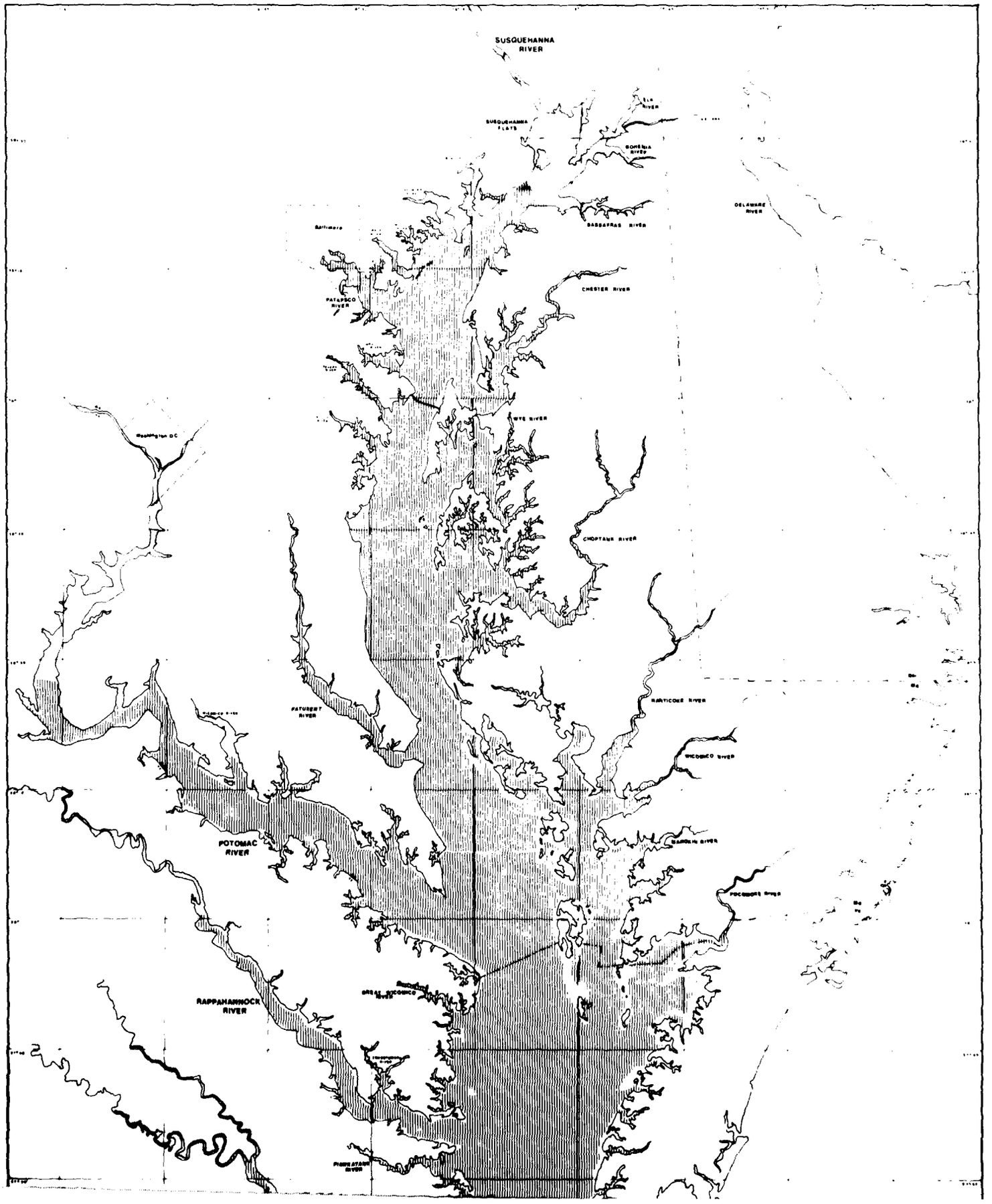

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
CHOPTANK RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 46 CHESAPEAKE BAY
Anchoa mitchilli - BAY ANCHOVY
Potential Habitat
DISTRIBUTION
FUTURE DROUGHT
LEGEND
Eggs
Larvae
Adults Head of Tide
to Bay Mouth
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.

Plate 102


SUSQUEHANNA RIVER
ELK RIVER
SUSQUEHANNA FLATS
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
WYE RIVER
Washington DC
CHOPTANK RIVER
PATUXENT RIVER
RAPPAHANNOCK RIVER
POTOMAC RIVER
WICOMICO River
POCOMOKE River

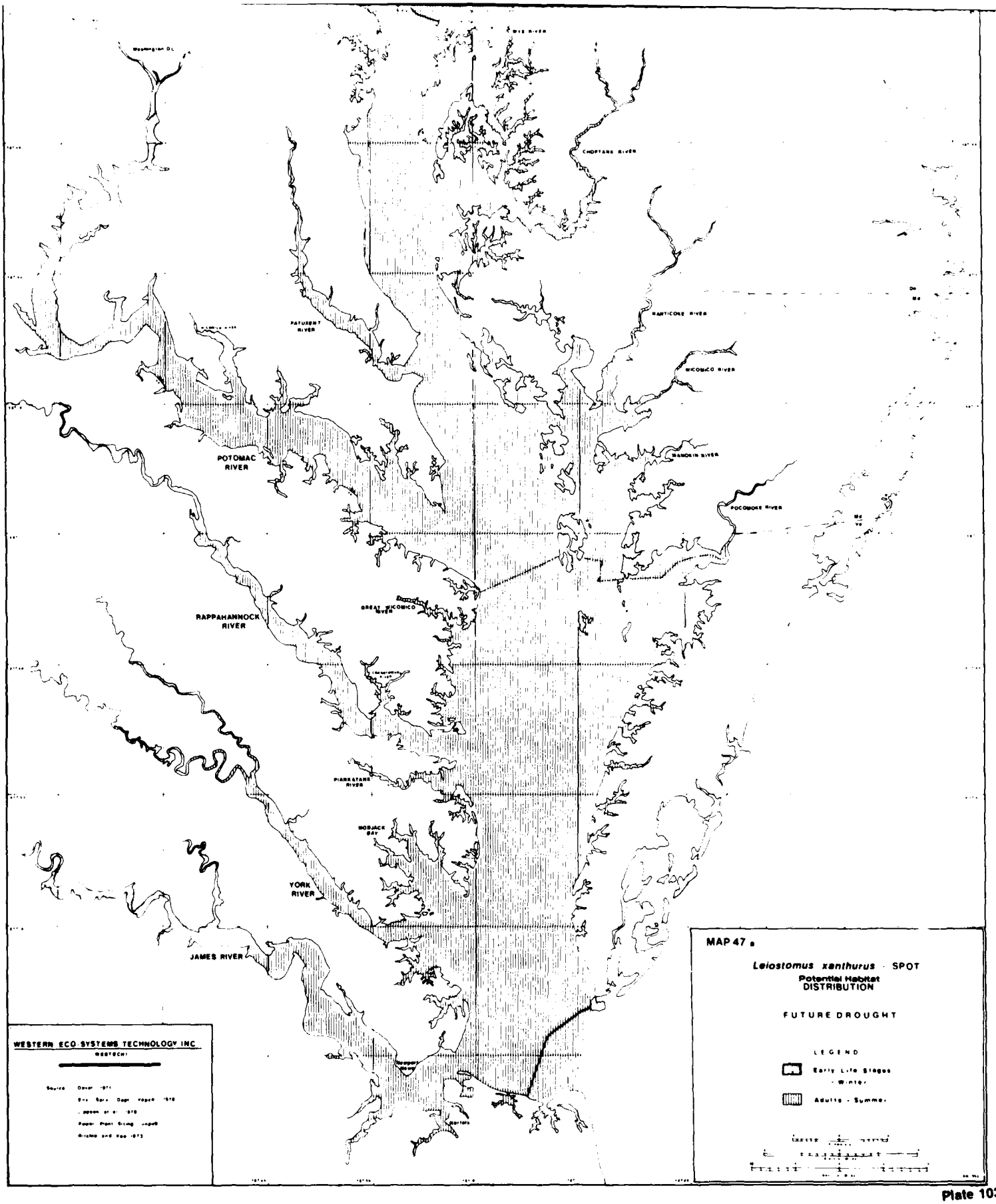
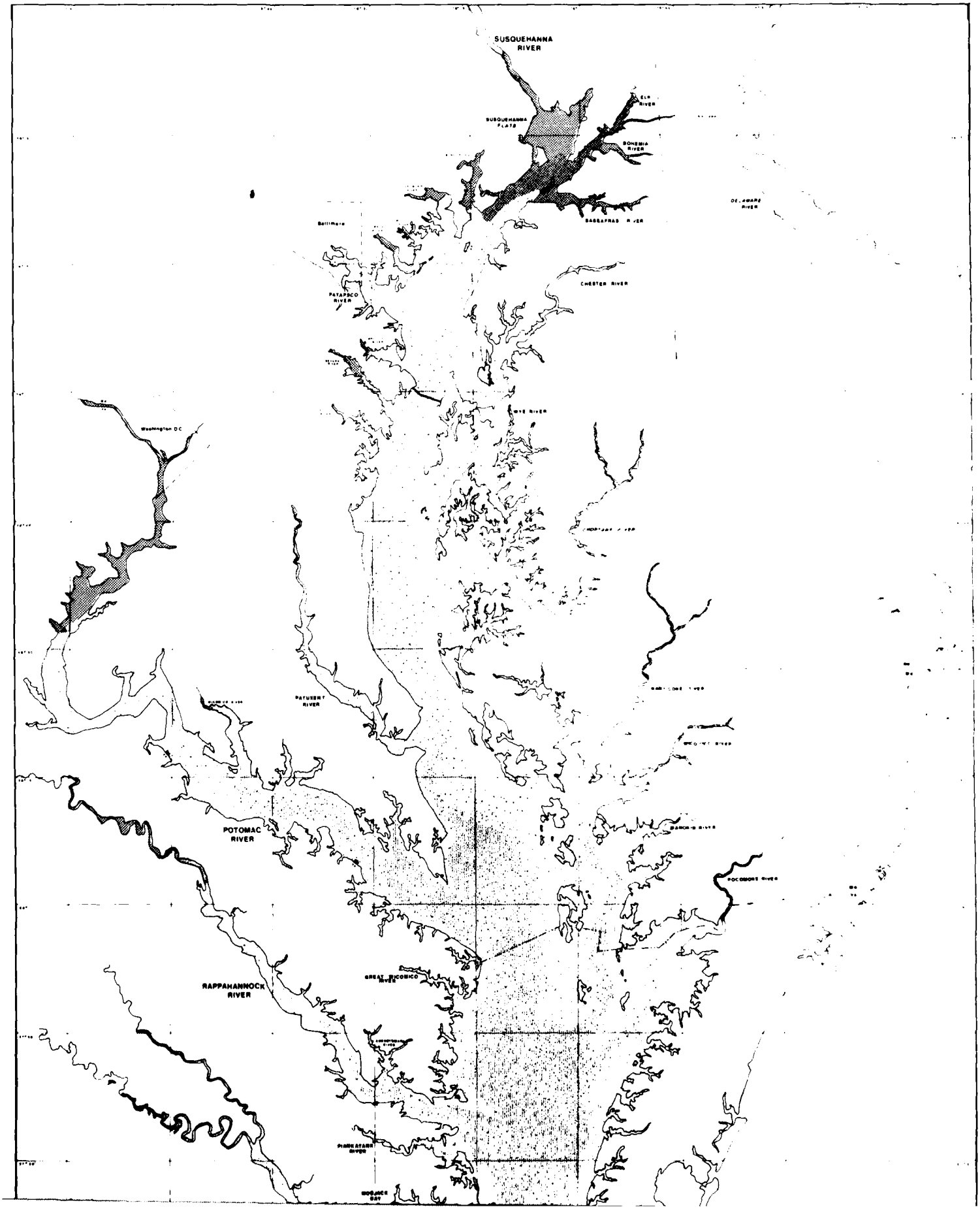

POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
PATUXENT RIVER
NANTICOKE RIVER
WICOMICO RIVER
MANOKIN RIVER
POCOMOKE RIVER
CHOPTANK RIVER
PIANKATANK RIVER
MOBJACK BAY
GREAT WICOMICO RIVER
WESTERN ECO SYSTEMS TECHNOLOGY INC
MAP 47 a
Leiostomus xanthurus - SPOT
Potential Habitat
DISTRIBUTION
FUTURE DROUGHT
LEGEND
Early Life Stages - Winter
Adults - Summer

Plate 103


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
Baltimore
PATAPSCO RIVER
CHESTER RIVER
Washington DC
PATUXENT RIVER
POTOMAC RIVER
RAPPAHANNOCK RIVER
POCOMOKE RIVER

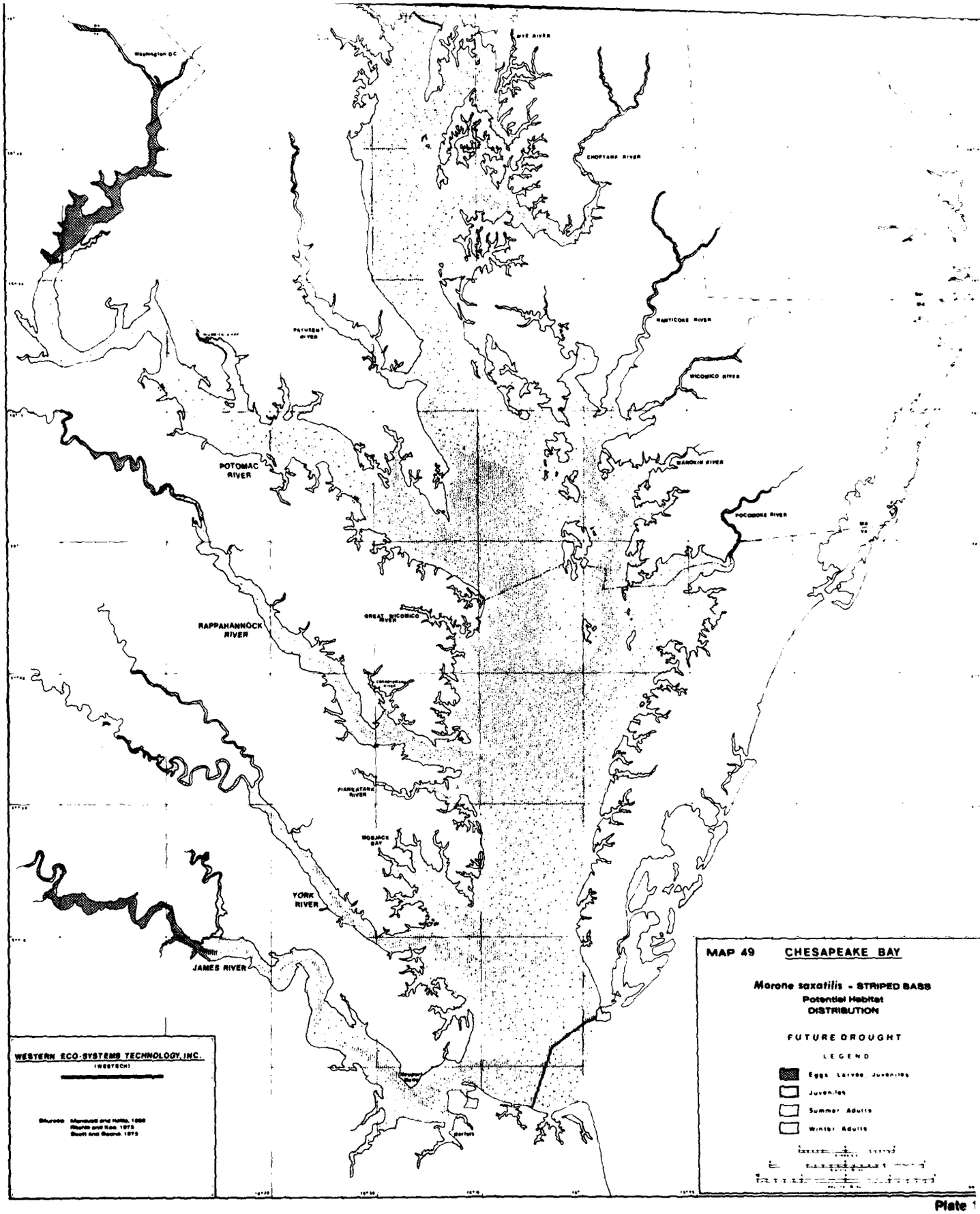
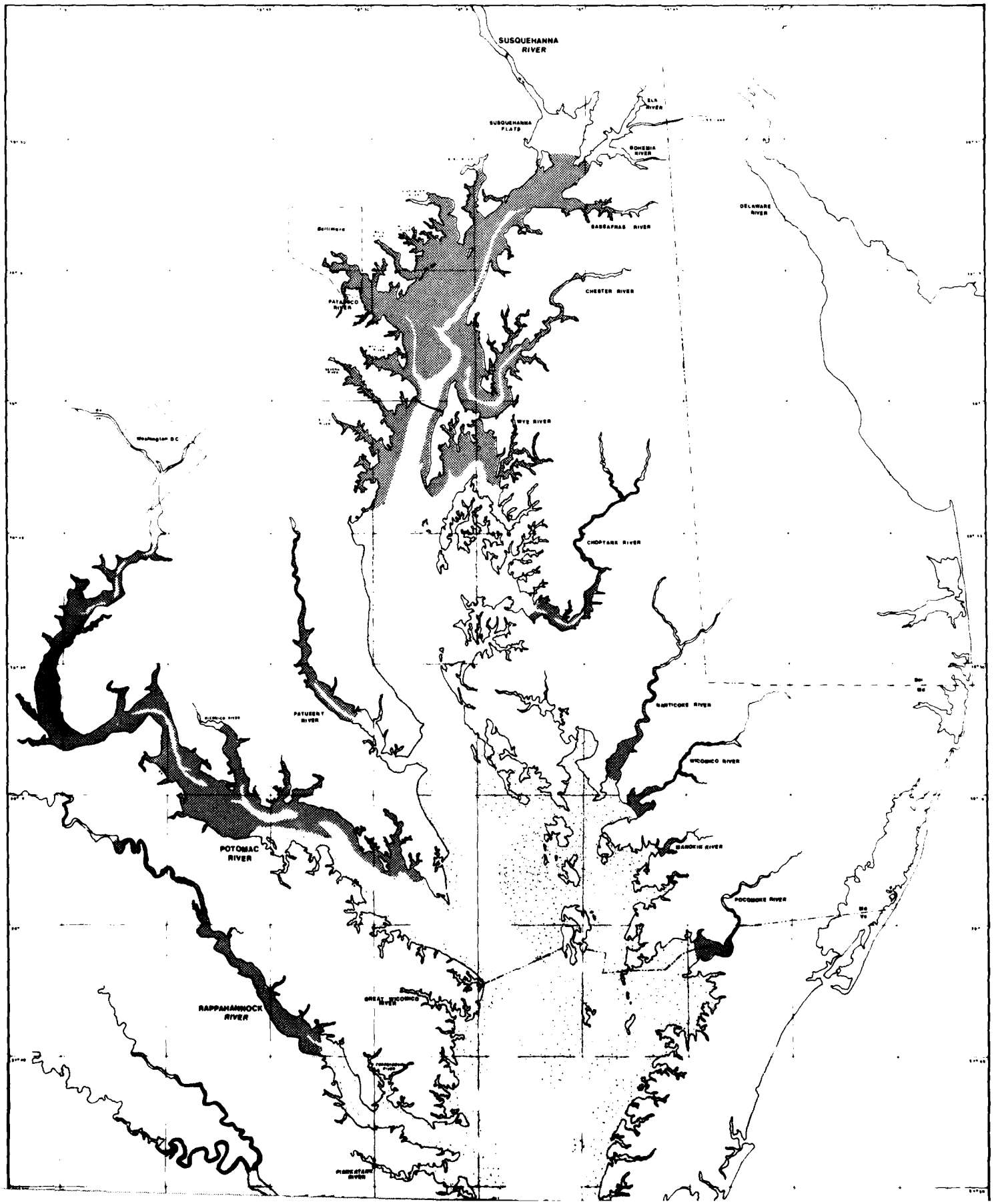
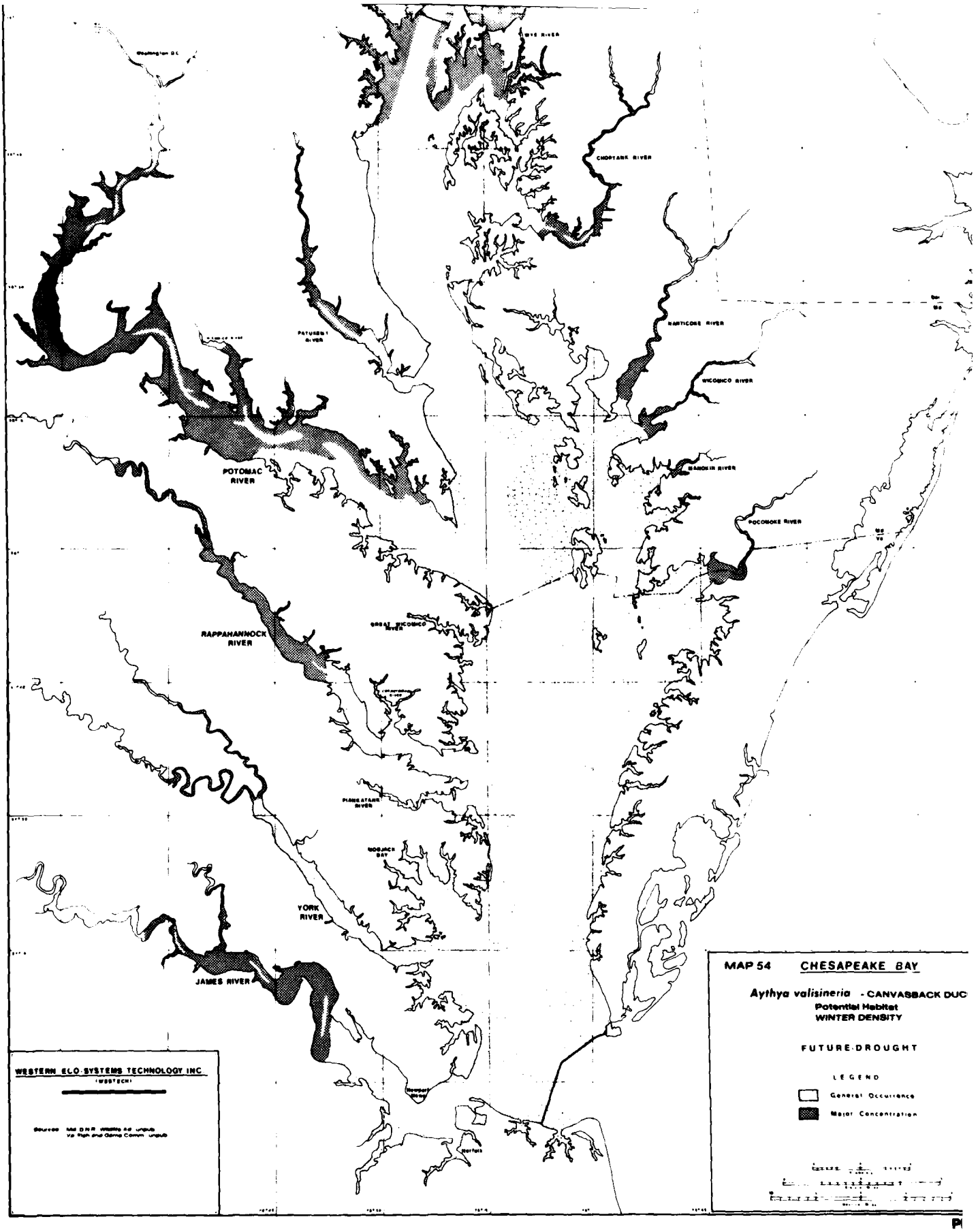

Washington DC
MYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
MAP 49 CHESAPEAKE BAY
Morone saxatilis - STRIPED BASS
Potential Habitat
DISTRIBUTION
FUTURE DROUGHT
LEGEND
Eggs Larvae Juveniles
Juveniles
Summer Adults
Winter Adults
WESTERN ECO-SYSTEMS TECHNOLOGY, INC.
(WESTECH)

Plate 1


SUSQUEHANNA RIVER
SUSQUEHANNA FLATS
ELK RIVER
BOHEMIA RIVER
DELAWARE RIVER
SASSAFRAS RIVER
CHESTER RIVER
PATAPSCO RIVER
Baltimore
Washington DC
WYE RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POTOMAC RIVER
MANOKIN RIVER
POCOMOKE RIVER
RAPPAHANNOCK RIVER
GREAT WICOMICO RIVER


POTOMAC RIVER
RAPPAHANNOCK RIVER
YORK RIVER
JAMES RIVER
CHOPTANK RIVER
PATUXENT RIVER
WICOMICO RIVER
POCOMOKE RIVER
MAP 54 CHESAPEAKE BAY
Aythya valisineria - CANVASBACK DUC
Potential Habitat
WINTER DENSITY
FUTURE-DROUGHT
LEGEND
General Occurrence
Major Concentration
WESTERN ECO-SYSTEMS TECHNOLOGY INC.

END

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