Monthly salinity data for the York River plotted by river mile by month

Frank J. Wojcik
Virginia Institute of Marine Science

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Plotted by River Mile by Month

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Data Report 17

Virginia Institute of Marine Science
School of Marine Science
College of William and Mary
Gloucester Point, Virginia 23062

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Acknowledgments

I thank all of the people who have worked on the VIMS Small Fish Trawl Surveys, both staff and students, because without them the data used to prepare this report would not have been available.

Thanks are also due to Dr. David Evans for his assistance in developing the plotting routines used in this report.
Abstract

This report presents graphs on the mean salinities yearly by five mile intervals upriver from the mouth of the York River, and these are overlaid with 25-year average data for the same month, along with the 95% confidence intervals.
INTRODUCTION

A need for salinity data for Virginia waters, summarized so as to provide information on normal conditions has been needed for some time. However, it took the severe drought of 1980 with resulting high river salinities, and the possible effects on estuarine animal populations to force us to accomplish this purpose. Salinity data were available and needed only to be summarized by our computer to be output in a readily digestible form presented in this report.

Only salinity data collected as part of the hydro data collected during the VIMS Small Fish Trawl Surveys between 1956, and August of 1981 are included in this report. This data comprises a part of the VIMS Hydro File currently resident within our PRIME 750 computer. Preliminary to this report the required data was extracted from the larger file, was summarized using a user written Fortran program, and was stored in a smaller file for quick access. Data from this abbreviated were then used to compute the grand monthly mean for 25 years of data along with the variation associated with these mean (95% confidence limits) in increments of five river miles from the mouth of the York River. The resultant data was plotted by months on our Tektronics Graphics Terminal, and these 25 year means were then overlaid with appropriate monthly data for the current year so as to provide a quick visual comparison of current salinities to the mean data.
The salinity data presented in this report were collected in conjunction with the VIMS Small Fish Trawl Surveys, and as such their use may be more limited than had they been collected primarily for their hydrographic use. They were collected randomly throughout the tidal cycle. However, the range of years over which they were collected should make up for their other deficiency.

The data was collected primarily from the channel, and as such should be more applicable to the channel areas than to the shoal areas.

This set of salinity data were chosen for this analysis as it does most closely follow the fish catches made at the same time, and it was collected by the Department of Ichthyology and Crustaceology at VIMS and limitations of the data is obvious to users in these disciplines.
Figure 1

YORK RIVER MEAN MONTHLY SALINITIES JANUARY SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JANUARY 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 2

YORK RIVER MEAN MONTHLY SALINITIES JANUARY BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JANUARY 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 3

YORK RIVER MEAN MONTHLY SALINITIES FEBRUARY SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
FEBRUARY 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 4

YORK RIVER MEAN MONTHLY SALINITIES FEBRUARY BOTTOM

24 YEARS DATA
DATA FROM UIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
FEBRUARY 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 5

YORK RIVER MEAN MONTHLY SALINITIES MARCH SURFACE

23 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MARCH 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 6

YORK RIVER MEAN MONTHLY SALINITIES MARCH BOTTOM

23 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MARCH 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 7

YORK RIVER MEAN MONTHLY SALINITIES APRIL SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
APRIL 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 8

YORK RIVER MEAN MONTHLY SALINITIES APRIL BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
APRIL 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 9

YORK RIVER MEAN MONTHLY SALINITIES MAY SURFACE

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MAY 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 10

YORK RIVER MEAN MONTHLY SALINITIES MAY BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MAY 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 11

YORK RIVER MEAN MONTHLY SALINITIES JUNE SURFACE

22 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JUNE 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 12

YORK RIVER MEAN MONTHLY SALINITIES JUNE BOTTOM

22 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JUNE 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 13

YORK RIVER MEAN MONTHLY SALINITIES JULY SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JULY 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 14

YORK RIVER MEAN MONTHLY SALINITIES JULY BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JULY 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 15

YORK RIVER MEAN MONTHLY SALINITIES AUGUST SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
AUGUST 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 16

YORK RIVER MEAN MONTHLY SALINITIES AUGUST BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
AUGUST 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 17

YORK RIVER MEAN MONTHLY SALINITIES SEPTEMBER SURFACE

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
SEPTEMBER 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 18

YORK RIVER MEAN MONTHLY SALINITIES SEPTEMBER BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
SEPTEMBER 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 19

YORK RIVER MEAN MONTHLY SALINITIES OCTOBER SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
OCTOBER 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 20

YORK RIVER MEAN MONTHLY SALINITIES OCTOBER BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
OCTOBER 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 21

YORK RIVER MEAN MONTHLY SALINITIES NOVEMBER SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
NOVEMBER 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 22

YORK RIVER MEAN MONTHLY SALINITIES NOVEMBER BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
NOVEMBER 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 23

YORK RIVER MEAN MONTHLY SALINITIES DECEMBER SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
DECEMBER 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 24

YORK RIVER MEAN MONTHLY SALINITIES DECEMBER BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
DECEMBER 1979

RIVER MILES UPRIVER FROM THE MOUTH
Figure 25

YORK RIVER MEAN MONTHLY SALINITIES JANUARY SURFACE

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JANUARY 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 26

YORK RIVER MEAN MONTHLY SALINITIES JANUARY BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JANUARY 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 27

YORK RIVER MEAN MONTHLY SALINITIES FEBRUARY SURFACE

25 YEARS DATA
DATA FROM VIMS TRAUL SURVEY

YEAR MEAN
CONFIDENCE INT
FEBRUARY 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 28

YORK RIVER MEAN MONTHLY SALINITIES FEBRUARY BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
FEBRUARY 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 29

YORK RIVER MEAN MONTHLY SALINITIES MARCH SURFACE

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MARCH 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 30

YORK RIVER MEAN MONTHLY SALINITIES MARCH BOTTOM

24 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MARCH 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 31

YORK RIVER MEAN MONTHLY SALINITIES APRIL SURFACE

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
APRIL 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 32

YORK RIVER MEAN MONTHLY SALINITIES APRIL BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
APRIL 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 33

YORK RIVER MEAN MONTHLY SALINITIES MAY SURFACE

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MAY 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 34

YORK RIVER MEAN MONTHLY SALINITIES MAY BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MAY 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 35

YORK RIVER MEAN MONTHLY SALINITIES JUNE SURFACE

23 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JUNE 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 36

YORK RIVER MEAN MONTHLY SALINITIES JUNE BOTTOM

23 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JUNE 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 37

YORK RIVER MEAN MONTHLY SALINITIES JULY SURFACE

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JULY 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 38

YORK RIVER MEAN MONTHLY SALINITIES JULY BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JULY 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 39

YORK RIVER MEAN MONTHLY SALINITIES AUGUST SURFACE

25 YEARS DATA

DATA FROM VIMS TRAWL SURVEY

YEAR MEAN

CONFIDENCE INT

AUGUST 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 40

YORK RIVER MEAN MONTHLY SALINITIES AUGUST BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
AUGUST 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 41

YORK RIVER MEAN MONTHLY SALINITIES SEPTEMBER SURFACE

25 YEARS DATA
DATA FROM VIMS TRAUL SURVEY

YEAR MEAN
CONFIDENCE INT
SEPTEMBER 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 42

YORK RIVER MEAN MONTHLY SALINITIES SEPTEMBER BOTTOM

25 YEARS DATA
DATA FROM UIMS TRAUL SURVEY

YEAR MEAN
CONFIDENCE INT
SEPTEMBER 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 43

YORK RIVER MEAN MONTHLY SALINITIES OCTOBER SURFACE

25 YEARS DATA

DATA FROM VIMS TRAWL SURVEY

YEAR MEAN

CONFIDENCE INT

OCTOBER 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 44

YORK RIVER MEAN MONTHLY SALINITIES OCTOBER BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
OCTOBER 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 45

YORK RIVER MEAN MONTHLY SALINITIES NOVEMBER SURFACE

25 YEARS DATA
DATA FROM UIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
NOVEMBER 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 46
YORK RIVER MEAN MONTHLY SALINITIES NOVEMBER BOTTOM

25 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
NOVEMBER 1980

RIVER MILES UP又要 FROM THE MOUTH
Figure 47

YORK RIVER MEAN MONTHLY SALINITIES DECEMBER SURFACE.

25 YEARS DATA
DATA FROM UIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
DECEMBER 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 48

YORK RIVER MEAN MONTHLY SALINITIES DECEMBER BOTTOM

25 YEARS DATA

DATA FROM VIMS TRAWL SURVEY

YEAR MEAN

CONFIDENCE INT

DECEMBER 1980

RIVER MILES UPRIVER FROM THE MOUTH
Figure 49

YORK RIVER MEAN MONTHLY SALINITIES JANUARY SURFACE

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JANUARY 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 50

YORK RIVER MEAN MONTHLY SALINITIES JANUARY BOTTOM

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JANUARY 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 51

YORK RIVER MEAN MONTHLY SALINITIES FEBRUARY SURFACE

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
FEBRUARY 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 52

YORK RIVER MEAN MONTHLY SALINITIES FEBRUARY BOTTOM

26 YEARS DATA
DATA FROM UIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
FEBRUARY 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 53

YORK RIVER MEAN MONTHLY SALINITIES MARCH SURFACE

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MARCH 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 54

YORK RIVER MEAN MONTHLY SALINITIES MARCH BOTTOM

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MARCH 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 55

YORK RIVER MEAN MONTHLY SALINITIES APRIL SURFACE

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
APRIL 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 56

YORK RIVER MEAN MONTHLY SALINITIES APRIL BOTTOM

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
APRIL 1981

RIVER MILES UP RIVER FROM THE MOUTH
Figure 58

YORK RIVER MEAN MONTHLY SALINITIES MAY SURFACE

27 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MAY 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 59

YORK RIVER MEAN MONTHLY SALINITIES MAY BOTTOM

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
MAY 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 60

YORK RIVER MEAN MONTHLY SALINITIES JUNE SURFACE

26 YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JUNE 1981
Figure 61

YORK RIVER MEAN MONTHLY SALINITIES JUNE BOTTOM

26 YEARS DATA
DATA FROM UIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JUNE 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 62

YORK RIVER MEAN MONTHLY SALINITIES JULY SURFACE

26 YEARS DATA

DATA FROM VIMS TRAWL SURVEY

YEAR MEAN

CONFIDENCE INT

JULY 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 63

YORK RIVER MEAN MONTHLY SALINITIES JULY BOTTOM

26 YEARS DATA
DATA FROM UIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
JULY 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 64

YORK RIVER MEAN MONTHLY SALINITIES AUGUST SURFACE

YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
AUGUST 1981

RIVER MILES UPRIVER FROM THE MOUTH
Figure 65

YORK RIVER MEAN MONTHLY SALINITIES AUGUST BOTTOM

YEARS DATA
DATA FROM VIMS TRAWL SURVEY

YEAR MEAN
CONFIDENCE INT
AUGUST 1981

RIVER MILES UPRIVER FROM THE MOUTH