

THE NUMBER OF RIVERS TO BE STUDIED ARE 3
THE NUMBER OF ORDER FOR THE LEAST SQUARE FIT TO BE PERFORMED IS 2
THE FLAG FOR THE RETURN PERIOD IS -0

THIS IS THE FLOOD FREQUENCY STUDY FOR TUCKER CREEK CRAVEN COUNTY

(NJMX), (MCS), (RATE), (YEAR), (POINT), (IPR), (IDR), I=1, (ORDER) ...
-0 -0 4 4 -0 2 3

THE S
THE I
THE P
THE F
THE I
WHERE

THE

THE

THE

COA

ITS

TH

VO

IT

TI

I

I

TUCKER CREEK

10. 5000
ITS COMBINED RETURN PERIOD
10. 6.378 50. 8.258 100. 8.947 5000
THE FLOOD ZONE IS 5 *****

THE NUMBER OF RIVERS TO BE STUDIED ARE 3
THE NUMBER OF ORDER FOR THE LEAST SQUARE FIT TO BE PERFORMED IS 2
THE FLAG FOR THE RETURN PERIOD IS -0

THIS IS THE FLOOD FREQUENCY STUDY FOR TUCKER CREEK CRAVEN COUNTY

(NJMX), (MCS), (RATE), (YEAR), (POINT), (IPR), (IDR(I)), I=1, (ORDER)
4 -0 -0 4 4 -0 2 3

THE SEASONAL TIDE ADJUSTMENT IN FT. IS -0.
THE INCREMENT, IN FEET, FOR THE RATE CURVE IS .10
THE POWER OF THE INDEPENDENT VARIABLE, LN(Y(I)), IS .50
THE POWER FOR THE DEPENDENT VARIABLE, X(I), IS .500
THE CURVE USED TO FIT THE DATA IS $X=C0+C1*Z+C2*Z**2+...$
WHERE $Z=(LN(Y(I)))**POWER$

THE MAXIMUM FLOOD ELEVATION ALLOWED IN THIS STUDY IS 35.90

THE FOLLOWING SET OF RESULT IS USING THE 2ND ORDER LEAST SQUARE FIT APPROXIMATION

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) AT ENTRANCE 0
COASTAL
10. 6.000 50. 9.100 100. 8.300 500. 10.100
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 5.999 50. 8.107 100. 8.792 500. 10.102
THE FLOOD ZONE IS 6 *****

NOTE THAT ALL INPUT ELEVATIONS ARE EQUAL TO EACH OTHER WHICH IS EQUAL TO .25 AT RIVER X-SECTION NO. 1
THE SLOPE USED TO MODIFY THE ELEVATION IS .13 -----

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) AT RIVER X-SEC. NO. 1
INPUT
10. .250 50. .297 100. .314 500. .350
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 5.999 50. 8.107 100. 8.792 500. 10.102
THE FLOOD ZONE IS 6 *****

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) AT RIVER X-SEC. NO. 2
INPUT
10. .560 50. 1.210 100. 1.650 500. 3.050
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 5.999 50. 8.107 100. 9.792 500. 10.202
THE FLOOD ZONE IS 6 *****

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) AT RIVER X-SEC. NO. 3
INPUT
10. 1.560 50. 2.760 100. 3.400 500. 5.060
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 6.021 50. 8.107 100. 9.792 500. 10.102
THE FLOOD ZONE IS 6 *****

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) AT RIVER X-SEC. NO. 4
INPUT
10. 5.150 50. 6.410 100. 7.010 500. 8.610
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 6.378 50. 8.258 100. 9.947 500. 10.493
THE FLOOD ZONE IS 5 *****

THE NUMBER OF RIVERS TO BE STUDIED ARE 3
THE NUMBER OF ORDER FOR THE LEAST SQUARE FIT TO BE PERFORMED IS 2
THE FLAG FOR THE RETURN PERIOD IS -0

THIS IS THE FLOOD FREQUENCY STUDY FOR TUCKER CREEK CRAVEN COUNTY

(NUMX), (MCOS), (RATE), (YEAR), (POINT), (IPR), (IDR), (I=1, NORDER)
4 -0 -0 4 4 -0 2 3

THE SEASONAL TIDE ADJUSTMENT IN FT. IS -0.
THE INCREMENT, IN FEET, FOR THE RATE CURVE IS .10
THE POWER OF THE INDEPENDENT VARIABLE, LN(Y(I)), IS .50
THE POWER FOR THE DEPENDENT VARIABLE, X(I), IS .500
THE CURVE USED TO FIT THE DATA IS $X=C0+C1*Z+C2*Z**2+...$
WHERE $Z=(LN(Y(I)))**POWER$

THE MAXIMUM FLOOD ELEVATION ALLOWED IN THIS STUDY IS 35.90

THE FOLLOWING SET OF RESULT IS USING THE 3RD ORDER LEAST SQUARE FIT APPROXIMATION

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) ... AT RIVER X-SEC. NO. 0
COASTAL

10. 6.000 50. 8.100 100. 8.900 500. 10.100
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 6.000 50. 8.100 100. 8.300 500. 10.100
THE FLOOD ZONE IS 6 *****

NOTE THAT ALL INPUT ELEVATIONS ARE EQUAL TO EACH OTHER WHICH IS EQUAL TO .25 AT RIVER X-SECTION NO. 1
THE SLOPE USED TO MODIFY THE ELEVATION IS .10 -----

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) ... AT RIVER X-SEC. NO. 1
INPUT

10. .250 50. .297 100. .314 500. .350
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 6.000 50. 8.100 100. 8.300 500. 10.100
THE FLOOD ZONE IS 6 *****

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) ... AT RIVER X-SEC. NO. 2
INPUT

10. .560 50. 1.210 100. 1.550 500. 3.050
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 6.000 50. 8.100 100. 8.900 500. 10.100
THE FLOOD ZONE IS 6 *****

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) ... AT RIVER X-SEC. NO. 3
INPUT

10. 1.560 50. 2.760 100. 3.400 500. 5.060
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 6.000 50. 8.100 100. 8.900 500. 10.100
THE FLOOD ZONE IS 6 *****

THE FOLLOWING VALUES ARE THE FLOOD RETURN PERIODS AND THEIR CORRESPONDING FLOOD ELEVATIONS.

... (YEAR, HEIGHT) ... AT RIVER X-SEC. NO. 4
INPUT

10. 5.150 50. 5.910 100. 7.010 500. 8.610
ITS COMBINED RETURN PERIODS FOR 10, 50, 100 AND 500 YEARS ARE
10. 6.361 50. 8.250 100. 8.945 500. 10.252
THE FLOOD ZONE IS 5 *****