
HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977
ERROR CORR - 01
MODIFICATION - 50,51,52

EU

TOWN
BRANCH

MADE IN U. S. A.

HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

C

T1 LANDIS-ROWAN CO. BASIN A-E STREAM 5-3L TOWN CREEK
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 10 YEAR FLOOD WATER SURFACE PROFILE

J1 ICHECK INQ NINV IDIR STRT METRIC HVINS Q WSEL FQ
-10. 2. 0. 0. 0.018000 0.0 0.0 0. 661,500 0.0

J2 NPROF IPLOT PRFVS XSECV XSECH FN ALLDC IBW CHNAM ITRACE
0.0 0.0 -1.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0

J3 VARIABLE CODES FOR SUMMARY PRINTOUT
38.000 39.000 40.000 41.000 43.000 42.000 1.000 2.000 26.000 53.000

54.000 25.000 50.000 0.0 201.000 0.0 0.0 0.0 0.0 0.0

J5 LPRNT NUMSEC *****REQUESTED SECTION NUMBERS*****
-10.000 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

MADE IN U.S.A.

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HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

ERROR CORR - 01

MODIFICATION - 50,51,52

T1 LANDIS-ROWAN CO. BASIN A-E STREAM 5-3L TOWN CREEK
T2 FLOODPLAIN STUDY AT ROWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
T3 100 YEAR FLOOD WATER SURFACE PROFILE

| J1 | ICHECK | INQ | NINV | IDIR | STRT | METRIC | HVINS | Q | WSEL | FQ |
|----|--------|------|--------|-------|----------|--------|-------|-----|---------|--------|
| | -10. | 4. | 0. | 0. | 0.018000 | 0.0 | 0.0 | 0. | 664.500 | 0.0 |
| J2 | NPROF | IPLT | PRFVS | XSECV | XSECH | FN | ALLDC | IBW | CHN&M | ITRACE |
| | 15.000 | 0.0 | -1.050 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

MADE IN U. S. A.

 HEC2 RELEASE DATED NOV 76 UPDATED FEB 1977

LPROR CORR - 01

MODIFICATION - 50,51,52

NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

10 YEAR FLOOD WATER SURF

SUMMARY PRINTOUT

| SECNO | XLCH | ELTRD | ELLC | Q | ELMIN | CWSEL | CRWS | VCH | SSTA | ENDST | AREA | DIFWSP |
|--------------|---------|--------|--------|---------|--------|--------|--------|-------|---------|---------|--------|--------|
| * A 625.000 | 625.00 | 0.0 | 0.0 | 500.00 | 656.50 | 659.53 | 659.53 | 8.54 | 1076.16 | 1106.11 | 60.83 | 0.0 |
| * 625.000 | 625.00 | 0.0 | 0.0 | 1260.00 | 656.50 | 661.50 | 661.50 | 10.77 | 1070.23 | 1118.03 | 134.18 | 1.97 |
| * B 2040.000 | 1415.00 | 0.0 | 0.0 | 490.00 | 678.90 | 682.23 | 682.23 | 8.97 | 1255.53 | 1277.69 | 54.63 | 0.0 |
| * 2040.000 | 1415.00 | 0.0 | 0.0 | 1130.00 | 678.90 | 684.31 | 684.31 | 8.62 | 1176.76 | 1304.36 | 204.83 | 2.08 |
| * 2140.000 | 100.00 | 0.0 | 0.0 | 490.00 | 680.20 | 683.53 | 683.53 | 8.96 | 1255.52 | 1277.69 | 54.68 | 0.0 |
| * 2140.000 | 100.00 | 0.0 | 0.0 | 1130.00 | 680.20 | 685.61 | 685.61 | 8.59 | 1176.54 | 1304.42 | 205.92 | 2.08 |
| * 2190.000 | 50.00 | 0.0 | 0.0 | 490.00 | 680.90 | 684.70 | 0.0 | 6.55 | 1338.00 | 1367.00 | 74.80 | 0.0 |
| * 2190.000 | 50.00 | 0.0 | 0.0 | 1130.00 | 680.90 | 685.71 | 685.71 | 10.83 | 1338.00 | 1367.00 | 104.35 | 1.01 |
| 2210.000 | 20.00 | 690.20 | 688.30 | 490.00 | 680.90 | 684.70 | 0.0 | 6.53 | 1338.00 | 1367.00 | 75.01 | 0.0 |
| 2210.000 | 20.00 | 690.20 | 688.30 | 1130.00 | 680.90 | 685.71 | 0.0 | 10.82 | 1338.00 | 1367.00 | 104.48 | 1.02 |
| * 2260.000 | 50.00 | 0.0 | 0.0 | 490.00 | 681.60 | 684.92 | 684.92 | 9.00 | 1255.54 | 1277.68 | 54.44 | 0.0 |
| 2260.000 | 50.00 | 0.0 | 0.0 | 1130.00 | 681.60 | 687.30 | 687.02 | 7.57 | 1169.29 | 1306.46 | 243.41 | 2.38 |
| * C 2360.000 | 100.00 | 0.0 | 0.0 | 490.00 | 682.90 | 686.23 | 686.23 | 8.96 | 1255.52 | 1277.70 | 54.68 | 0.0 |
| 2360.000 | 100.00 | 0.0 | 0.0 | 1130.00 | 682.90 | 688.30 | 688.30 | 8.66 | 1177.01 | 1304.29 | 203.58 | 2.07 |
| * D 5864.000 | 3504.00 | 0.0 | 0.0 | 470.00 | 717.50 | 721.20 | 721.18 | 9.05 | 1390.76 | 1415.14 | 57.85 | 0.0 |
| 5864.000 | 3504.00 | 0.0 | 0.0 | 1070.00 | 717.50 | 723.02 | 723.02 | 11.58 | 1388.62 | 1417.19 | 105.94 | 1.82 |
| 5914.000 | 50.00 | 0.0 | 0.0 | 470.00 | 717.70 | 722.02 | 0.0 | 7.26 | 1390.04 | 1415.83 | 73.20 | 0.0 |
| 5914.000 | 50.00 | 0.0 | 0.0 | 1070.00 | 717.70 | 724.09 | 0.0 | 9.37 | 1387.60 | 1418.17 | 131.56 | 2.07 |
| 5964.000 | 50.00 | 0.0 | 0.0 | 470.00 | 717.90 | 722.63 | 0.0 | 5.19 | 1360.00 | 1385.00 | 90.57 | 0.0 |
| 5964.000 | 50.00 | 0.0 | 0.0 | 1070.00 | 717.90 | 724.75 | 0.0 | 7.45 | 1360.00 | 1385.00 | 143.57 | 2.12 |
| 5990.000 | 26.00 | 726.40 | 726.90 | 470.00 | 717.90 | 722.63 | 0.0 | 5.19 | 1360.00 | 1385.00 | 90.47 | 0.0 |
| 5990.000 | 26.00 | 726.40 | 726.90 | 1070.00 | 717.90 | 724.75 | 0.0 | 7.46 | 1360.00 | 1385.00 | 143.46 | 2.12 |
| 6040.000 | 50.00 | 0.0 | 0.0 | 470.00 | 718.10 | 722.69 | 0.0 | 6.65 | 1389.72 | 1416.14 | 80.34 | 0.0 |
| 6040.000 | 50.00 | 0.0 | 0.0 | 1070.00 | 718.10 | 724.89 | 0.0 | 8.57 | 1387.12 | 1418.64 | 144.21 | 2.21 |
| * E 6090.000 | 50.00 | 0.0 | 0.0 | 470.00 | 718.30 | 722.87 | 0.0 | 6.68 | 1389.74 | 1416.12 | 79.87 | 0.0 |
| 6090.000 | 50.00 | 0.0 | 0.0 | 1070.00 | 718.30 | 725.10 | 0.0 | 8.56 | 1387.12 | 1418.64 | 144.27 | 2.22 |

MADE IN U.S.A.

| SECNO | XLCH | ELTRD | ELLC | Q | ELMIN | CWSEL | CRWS | VCH | SSTA | ENDST | AREA | DIFWSP |
|---------------|---------|--------|--------|--------|--------|--------|--------|-------|---------|---------|--------|--------|
| * 7965.000 | 1875.00 | 0.0 | 0.0 | 370.00 | 731.20 | 735.57 | 735.57 | 9.52 | 1477.40 | 1491.18 | 38.86 | 0.0 |
| * F 7965.000 | 1875.00 | 0.0 | 0.0 | 860.00 | 731.20 | 737.84 | 737.84 | 7.50 | 1345.00 | 1518.05 | 223.57 | 2.27 |
| * 8065.000 | 100.00 | 0.0 | 0.0 | 370.00 | 732.00 | 737.03 | 0.0 | 7.63 | 1476.70 | 1491.97 | 48.48 | 0.0 |
| * 8065.000 | 100.00 | 0.0 | 0.0 | 860.00 | 732.00 | 738.59 | 738.59 | 7.72 | 1346.69 | 1516.89 | 215.45 | 1.57 |
| * 8090.000 | 25.00 | 0.0 | 0.0 | 370.00 | 732.20 | 738.17 | 738.17 | 6.10 | 1362.07 | 1494.61 | 105.58 | 0.0 |
| * 8090.000 | 25.00 | 0.0 | 0.0 | 860.00 | 732.20 | 739.07 | 738.74 | 5.94 | 1329.49 | 1516.86 | 251.54 | 0.91 |
| * 8134.000 | 44.00 | 741.90 | 740.20 | 370.00 | 732.20 | 738.17 | 0.0 | 6.09 | 1362.05 | 1494.63 | 105.68 | 0.0 |
| * 8134.000 | 44.00 | 741.90 | 740.20 | 860.00 | 732.20 | 739.07 | 0.0 | 5.95 | 1329.62 | 1516.77 | 250.83 | 0.91 |
| * 8159.000 | 25.00 | 0.0 | 0.0 | 370.00 | 732.40 | 738.21 | 736.75 | 5.44 | 1374.18 | 1492.91 | 102.71 | 0.0 |
| * 8159.000 | 25.00 | 0.0 | 0.0 | 860.00 | 732.40 | 739.00 | 739.00 | 7.71 | 1346.55 | 1516.99 | 216.11 | 0.78 |
| * G 8259.000 | 100.00 | 0.0 | 0.0 | 370.00 | 733.20 | 738.33 | 0.0 | 7.41 | 1399.11 | 1492.08 | 49.95 | 0.0 |
| * 8259.000 | 100.00 | 0.0 | 0.0 | 860.00 | 733.20 | 739.72 | 739.72 | 8.08 | 1349.28 | 1515.12 | 203.26 | 1.39 |
| * H 8984.000 | 725.00 | 0.0 | 0.0 | 295.00 | 743.70 | 747.43 | 747.43 | 9.44 | 1195.80 | 1207.24 | 31.25 | 0.0 |
| * 8984.000 | 725.00 | 0.0 | 0.0 | 700.00 | 743.70 | 750.40 | 750.40 | 8.45 | 1133.60 | 1213.52 | 121.16 | 2.97 |
| * 9084.000 | 100.00 | 0.0 | 0.0 | 295.00 | 745.80 | 749.53 | 749.53 | 9.43 | 1195.80 | 1207.24 | 31.27 | 0.0 |
| * 9084.000 | 100.00 | 0.0 | 0.0 | 700.00 | 745.80 | 752.52 | 752.52 | 8.35 | 1133.40 | 1213.83 | 123.32 | 2.99 |
| * 9134.000 | 50.00 | 0.0 | 0.0 | 295.00 | 746.90 | 750.30 | 750.30 | 10.11 | 2044.39 | 2055.93 | 32.20 | 0.0 |
| * 9134.000 | 50.00 | 0.0 | 0.0 | 700.00 | 746.90 | 753.70 | 753.70 | 8.60 | 1980.85 | 2062.74 | 135.21 | 3.40 |
| * 9290.000 | 156.00 | 763.40 | 754.90 | 295.00 | 749.90 | 753.48 | 0.0 | 9.54 | 2044.29 | 2056.05 | 34.32 | 0.0 |
| * 9290.000 | 156.00 | 763.40 | 754.90 | 700.00 | 749.90 | 760.81 | 0.0 | 1.83 | 1951.50 | 2111.40 | 631.96 | 7.33 |
| * 9340.000 | 50.00 | 0.0 | 0.0 | 295.00 | 751.00 | 754.72 | 754.72 | 9.46 | 1195.81 | 1207.23 | 31.20 | 0.0 |
| * 9340.000 | 50.00 | 0.0 | 0.0 | 700.00 | 751.00 | 760.79 | 0.0 | 2.73 | 1111.53 | 1250.10 | 458.66 | 6.06 |
| * I 9440.000 | 100.00 | 0.0 | 0.0 | 295.00 | 753.10 | 756.83 | 756.83 | 9.43 | 1195.80 | 1207.24 | 31.29 | 0.0 |
| * 9440.000 | 100.00 | 0.0 | 0.0 | 700.00 | 753.10 | 760.61 | 0.0 | 5.93 | 1127.73 | 1223.24 | 193.22 | 3.78 |
| * A 11140.000 | 1700.00 | 0.0 | 0.0 | 223.00 | 771.70 | 775.90 | 0.0 | 7.41 | 1170.50 | 1190.91 | 38.91 | 0.0 |
| * 11140.000 | 1700.00 | 0.0 | 0.0 | 540.00 | 771.70 | 777.16 | 777.16 | 10.54 | 1170.05 | 1192.52 | 65.86 | 1.26 |
| * B 11985.000 | 845.00 | 0.0 | 0.0 | 156.00 | 783.40 | 786.19 | 786.19 | 8.17 | 1072.97 | 1082.32 | 19.10 | 0.0 |
| * 11985.000 | 845.00 | 0.0 | 0.0 | 385.00 | 783.40 | 787.94 | 787.94 | 10.14 | 1071.61 | 1083.87 | 37.96 | 1.75 |
| * 12035.000 | 50.00 | 0.0 | 0.0 | 156.00 | 784.10 | 786.92 | 786.89 | 8.11 | 1072.96 | 1082.33 | 19.23 | 0.0 |
| * 12035.000 | 50.00 | 0.0 | 0.0 | 385.00 | 784.10 | 788.67 | 788.67 | 10.06 | 1071.59 | 1083.90 | 38.29 | 1.75 |
| * 12085.000 | 50.00 | 0.0 | 0.0 | 156.00 | 787.90 | 792.11 | 792.11 | 9.36 | 1110.04 | 1119.97 | 20.69 | 0.0 |
| * 12085.000 | 50.00 | 0.0 | 0.0 | 385.00 | 787.90 | 794.29 | 794.29 | 9.56 | 1107.26 | 1140.61 | 58.18 | 2.18 |
| * 12140.000 | 55.00 | 801.10 | 790.90 | 156.00 | 787.90 | 801.28 | 0.0 | 0.39 | 1078.36 | 1202.11 | 542.12 | 0.0 |
| * 12140.000 | 55.00 | 801.10 | 790.90 | 385.00 | 787.90 | 802.15 | 0.0 | 0.78 | 1074.67 | 1212.16 | 656.31 | 0.87 |
| * 12190.000 | 50.00 | 0.0 | 0.0 | 156.00 | 793.10 | 801.26 | 0.0 | 1.43 | 1063.32 | 1113.75 | 146.90 | 0.0 |
| * 12190.000 | 50.00 | 0.0 | 0.0 | 385.00 | 793.10 | 802.09 | 0.0 | 2.86 | 1059.81 | 1118.53 | 191.77 | 0.82 |
| * C 12240.000 | 50.00 | 0.0 | 0.0 | 156.00 | 796.90 | 801.06 | 0.0 | 4.66 | 1071.90 | 1083.54 | 33.48 | 0.0 |
| * 12240.000 | 50.00 | 0.0 | 0.0 | 385.00 | 796.90 | 801.48 | 801.48 | 10.02 | 1071.58 | 1083.91 | 38.42 | 0.41 |

I
 Rowan Co.
 11140.000
 * A

SUMMARY OF ERRORS

| | | | |
|---------|-----------------|------------|-------------------------------------|
| CAUTION | SECNO= 625.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 625.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2040.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2040.000 | PROFILE= 1 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 2040.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2040.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 2040.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 2140.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2140.000 | PROFILE= 1 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 2140.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2140.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 2140.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 2190.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2190.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 2190.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 2260.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2260.000 | PROFILE= 1 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 2360.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2360.000 | PROFILE= 1 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 2360.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 2360.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 2360.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 5864.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 5864.000 | PROFILE= 2 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 7965.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 7965.000 | PROFILE= 1 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 7965.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 7965.000 | PROFILE= 2 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 8065.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 8065.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 8065.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 8090.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 8090.000 | PROFILE= 1 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 8090.000 | PROFILE= 1 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 8159.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 8159.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 8159.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 8259.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 8259.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 8259.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 8984.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 8984.000 | PROFILE= 1 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 8984.000 | PROFILE= 1 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 8984.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 8984.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 8984.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 9084.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 9084.000 | PROFILE= 1 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 9084.000 | PROFILE= 1 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |

| | | | |
|---------|-----------------|------------|-------------------------------------|
| CAUTION | SECNO= 9084.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 9084.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 9084.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 9134.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 9134.000 | PROFILE= 1 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 9134.000 | PROFILE= 1 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 9134.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 9134.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 9134.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 9290.000 | PROFILE= 1 | WSEL ASSUMED BASED ON MIN DIFF |
| CAUTION | SECNO= 9290.000 | PROFILE= 1 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 9290.000 | PROFILE= 1 | HYDRAULIC JUMP D.S. |
| CAUTION | SECNO= 9340.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 9340.000 | PROFILE= 1 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 9340.000 | PROFILE= 1 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO= 9440.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO= 9440.000 | PROFILE= 1 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO= 9440.000 | PROFILE= 1 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO=11140.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO=11140.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO=11140.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO=11985.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO=11985.000 | PROFILE= 1 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO=11985.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO=11985.000 | PROFILE= 2 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO=12035.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO=12035.000 | PROFILE= 2 | MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO=12085.000 | PROFILE= 1 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO=12085.000 | PROFILE= 1 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO=12085.000 | PROFILE= 1 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO=12085.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO=12085.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO=12085.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |
| CAUTION | SECNO=12140.000 | PROFILE= 1 | HYDRAULIC JUMP D.S. |
| CAUTION | SECNO=12240.000 | PROFILE= 2 | CRITICAL DEPTH ASSUMED |
| CAUTION | SECNO=12240.000 | PROFILE= 2 | PROBABLE MINIMUM SPECIFIC ENERGY |
| CAUTION | SECNO=12240.000 | PROFILE= 2 | 20 TRIALS ATTEMPTED TO BALANCE WSEL |

FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

| SECTION NUMBER | CUMULATIVE DISTANCE | ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND | | |
|------------------------|---------------------|---|-------|-------|
| | | 10C | 2C | 0.2C |
| 625.000 | 0. | 659.5 | 661.5 | 0.0 |
| 2040.000 | 1415. | 673.7 | 675.8 | ***** |
| 2140.000 | 1515. | ***** | ***** | ***** |
| 2190.000 | 1565. | 2.5 | 3.5 | 0.0 |
| 2210.000 | 1585. | 684.7 | 685.7 | ***** |
| 2260.000 | 1635. | 194.9 | 197.3 | 190.2 |
| 2360.000 | 1735. | ***** | ***** | ***** |
| 5864.000 | 5239. | 721.2 | 723.0 | 0.0 |
| 5914.000 | 5289. | 715.5 | 717.5 | ***** |
| 5964.000 | 5339. | ***** | ***** | ***** |
| 5990.000 | 5365. | 37.9 | 40.1 | ***** |
| 6040.000 | 5415. | 722.7 | 724.9 | 0.0 |
| 6090.000 | 5465. | 232.9 | 235.1 | 191.6 |
| 7965.000 | 7340. | ***** | ***** | ***** |
| 8065.000 | 7440. | 737.0 | 738.6 | 0.0 |
| 8090.000 | 7465. | 729.2 | 730.1 | ***** |
| 8134.000 | 7509. | ***** | ***** | ***** |
| 8159.000 | 7534. | 17.0 | 17.8 | -0.0 |
| 8259.000 | 7634. | 738.3 | 739.7 | 0.0 |
| 8984.000 | 8359. | 277.4 | 280.4 | 247.7 |
| 9084.000 | 8459. | ***** | ***** | ***** |
| 9134.000 | 8509. | 750.3 | 753.7 | 0.0 |
| 9290.000 | 8665. | 748.3 | 755.6 | ***** |
| 9340.000 | 8715. | ***** | ***** | ***** |
| 9440.000 | 8815. | 34.2 | 38.0 | ***** |
| 11140.000 | 10515. | 775.9 | 777.2 | 0.0 |
| 11985.000 | 11360. | 316.2 | 317.9 | 248.1 |
| 12035.000 | 11410. | ***** | ***** | ***** |
| 12085.000 | 11460. | 792.1 | 794.3 | 0.0 |
| 12140.000 | 11515. | 794.6 | 795.5 | ***** |
| 12190.000 | 11565. | ***** | ***** | ***** |
| 12240.000 | 11615. | 65.5 | 65.9 | 0.0 |
| WEIGHTED AVG FOR REACH | | **** | **** | **** |

FHF FOR THE REACH = 005 WITH 0.00 OF THE REACH WITHIN 0.5 FEET
 ZONE FOR THE REACH = A 1

CONTINUOUS FLOOD HAZARD FACTORS BY EVEN INCREMENTS

| INC NO. | TOTAL LENGTH | AVG ELEVATION DATA | | | WTD. AVG. | FHF | PERCENT WITHIN |
|---------|--------------|--------------------|----|-------|-----------|-----|----------------|
| | | 10C | 1C | DIFF. | | | |

0.

SEC. 625.000

| | | | | | | | |
|-----|--------|-------|------|-------|-------|-----|------|
| 1 | 100. | 660.3 | 0.3 | 660.0 | 660.0 | 005 | 100. |
| 2 | 200. | 661.9 | 0.9 | 661.0 | 660.5 | 005 | 0. |
| 3 | 300. | 663.5 | 1.5 | 662.0 | 661.0 | 005 | 33. |
| 4 | 400. | 665.1 | 2.1 | 663.0 | 661.5 | 005 | 0. |
| 5 | 500. | 666.7 | 2.7 | 664.0 | 662.0 | 005 | 20. |
| 6 | 600. | 668.4 | 3.3 | 665.0 | 662.5 | 005 | 0. |
| 7 | 700. | 670.0 | 3.9 | 666.0 | 663.0 | 005 | 14. |
| 8 | 800. | 671.6 | 4.5 | 667.0 | 663.5 | 005 | 13. |
| 9 | 900. | 673.2 | 5.1 | 668.0 | 664.0 | 005 | 11. |
| 10 | 1000. | 674.8 | 5.7 | 669.0 | 664.5 | 005 | 10. |
| 11 | 1100. | 676.4 | 6.3 | 670.0 | 665.0 | 005 | 9. |
| 12 | 1200. | 678.0 | 6.9 | 671.0 | 665.5 | 005 | 8. |
| 13 | 1300. | 679.6 | 7.5 | 672.0 | 666.0 | 005 | 8. |
| 14 | 1400. | 681.2 | 8.1 | 673.0 | 666.5 | 005 | 7. |
| 15 | 1500. | 682.7 | 8.7 | 674.0 | 667.0 | 005 | 7. |
| 16 | 1600. | 684.3 | 9.3 | 675.0 | 667.5 | 005 | 7. |
| 17 | 1700. | 685.9 | 9.9 | 676.0 | 668.0 | 005 | 7. |
| 18 | 1800. | 687.5 | 10.5 | 677.0 | 668.5 | 005 | 7. |
| 19 | 1900. | 689.1 | 11.1 | 678.0 | 669.0 | 005 | 7. |
| 20 | 2000. | 690.7 | 11.7 | 679.0 | 669.5 | 005 | 7. |
| 21 | 2100. | 692.3 | 12.3 | 680.0 | 670.0 | 005 | 7. |
| 22 | 2200. | 693.9 | 12.9 | 681.0 | 670.5 | 005 | 7. |
| 23 | 2300. | 695.5 | 13.5 | 682.0 | 671.0 | 005 | 7. |
| 24 | 2400. | 697.1 | 14.1 | 683.0 | 671.5 | 005 | 7. |
| 25 | 2500. | 698.7 | 14.7 | 684.0 | 672.0 | 005 | 7. |
| 26 | 2600. | 699.3 | 15.3 | 685.0 | 672.5 | 005 | 7. |
| 27 | 2700. | 700.9 | 15.9 | 686.0 | 673.0 | 005 | 7. |
| 28 | 2800. | 702.5 | 16.5 | 687.0 | 673.5 | 005 | 7. |
| 29 | 2900. | 704.1 | 17.1 | 688.0 | 674.0 | 005 | 7. |
| 30 | 3000. | 705.7 | 17.7 | 689.0 | 674.5 | 005 | 7. |
| 31 | 3100. | 707.3 | 18.3 | 690.0 | 675.0 | 005 | 7. |
| 32 | 3200. | 708.9 | 18.9 | 691.0 | 675.5 | 005 | 7. |
| 33 | 3300. | 710.5 | 19.5 | 692.0 | 676.0 | 005 | 7. |
| 34 | 3400. | 712.1 | 20.1 | 693.0 | 676.5 | 005 | 7. |
| 35 | 3500. | 713.7 | 20.7 | 694.0 | 677.0 | 005 | 7. |
| 36 | 3600. | 715.3 | 21.3 | 695.0 | 677.5 | 005 | 7. |
| 37 | 3700. | 716.9 | 21.9 | 696.0 | 678.0 | 005 | 7. |
| 38 | 3800. | 718.5 | 22.5 | 697.0 | 678.5 | 005 | 7. |
| 39 | 3900. | 720.1 | 23.1 | 698.0 | 679.0 | 005 | 7. |
| 40 | 4000. | 721.7 | 23.7 | 699.0 | 679.5 | 005 | 7. |
| 41 | 4100. | 723.3 | 24.3 | 700.0 | 680.0 | 005 | 7. |
| 42 | 4200. | 724.9 | 24.9 | 701.0 | 680.5 | 005 | 7. |
| 43 | 4300. | 726.5 | 25.5 | 702.0 | 681.0 | 005 | 7. |
| 44 | 4400. | 728.1 | 26.1 | 703.0 | 681.5 | 005 | 7. |
| 45 | 4500. | 729.7 | 26.7 | 704.0 | 682.0 | 005 | 7. |
| 46 | 4600. | 731.3 | 27.3 | 705.0 | 682.5 | 005 | 7. |
| 47 | 4700. | 732.9 | 27.9 | 706.0 | 683.0 | 005 | 7. |
| 48 | 4800. | 734.5 | 28.5 | 707.0 | 683.5 | 005 | 7. |
| 49 | 4900. | 736.1 | 29.1 | 708.0 | 684.0 | 005 | 7. |
| 50 | 5000. | 737.7 | 29.7 | 709.0 | 684.5 | 005 | 7. |
| 51 | 5100. | 739.3 | 30.3 | 710.0 | 685.0 | 005 | 7. |
| 52 | 5200. | 740.9 | 30.9 | 711.0 | 685.5 | 005 | 7. |
| 53 | 5300. | 742.5 | 31.5 | 712.0 | 686.0 | 005 | 7. |
| 54 | 5400. | 744.1 | 32.1 | 713.0 | 686.5 | 005 | 7. |
| 55 | 5500. | 745.7 | 32.7 | 714.0 | 687.0 | 005 | 7. |
| 56 | 5600. | 747.3 | 33.3 | 715.0 | 687.5 | 005 | 7. |
| 57 | 5700. | 748.9 | 33.9 | 716.0 | 688.0 | 005 | 7. |
| 58 | 5800. | 750.5 | 34.5 | 717.0 | 688.5 | 005 | 7. |
| 59 | 5900. | 752.1 | 35.1 | 718.0 | 689.0 | 005 | 7. |
| 60 | 6000. | 753.7 | 35.7 | 719.0 | 689.5 | 005 | 7. |
| 61 | 6100. | 755.3 | 36.3 | 720.0 | 690.0 | 005 | 7. |
| 62 | 6200. | 756.9 | 36.9 | 721.0 | 690.5 | 005 | 7. |
| 63 | 6300. | 758.5 | 37.5 | 722.0 | 691.0 | 005 | 7. |
| 64 | 6400. | 760.1 | 38.1 | 723.0 | 691.5 | 005 | 7. |
| 65 | 6500. | 761.7 | 38.7 | 724.0 | 692.0 | 005 | 7. |
| 66 | 6600. | 763.3 | 39.3 | 725.0 | 692.5 | 005 | 7. |
| 67 | 6700. | 764.9 | 39.9 | 726.0 | 693.0 | 005 | 7. |
| 68 | 6800. | 766.5 | 40.5 | 727.0 | 693.5 | 005 | 7. |
| 69 | 6900. | 768.1 | 41.1 | 728.0 | 694.0 | 005 | 7. |
| 70 | 7000. | 769.7 | 41.7 | 729.0 | 694.5 | 005 | 7. |
| 71 | 7100. | 771.3 | 42.3 | 730.0 | 695.0 | 005 | 7. |
| 72 | 7200. | 772.9 | 42.9 | 731.0 | 695.5 | 005 | 7. |
| 73 | 7300. | 774.5 | 43.5 | 732.0 | 696.0 | 005 | 7. |
| 74 | 7400. | 776.1 | 44.1 | 733.0 | 696.5 | 005 | 7. |
| 75 | 7500. | 777.7 | 44.7 | 734.0 | 697.0 | 005 | 7. |
| 76 | 7600. | 779.3 | 45.3 | 735.0 | 697.5 | 005 | 7. |
| 77 | 7700. | 780.9 | 45.9 | 736.0 | 698.0 | 005 | 7. |
| 78 | 7800. | 782.5 | 46.5 | 737.0 | 698.5 | 005 | 7. |
| 79 | 7900. | 784.1 | 47.1 | 738.0 | 699.0 | 005 | 7. |
| 80 | 8000. | 785.7 | 47.7 | 739.0 | 699.5 | 005 | 7. |
| 81 | 8100. | 787.3 | 48.3 | 740.0 | 700.0 | 005 | 7. |
| 82 | 8200. | 788.9 | 48.9 | 741.0 | 700.5 | 005 | 7. |
| 83 | 8300. | 790.5 | 49.5 | 742.0 | 701.0 | 005 | 7. |
| 84 | 8400. | 792.1 | 50.1 | 743.0 | 701.5 | 005 | 7. |
| 85 | 8500. | 793.7 | 50.7 | 744.0 | 702.0 | 005 | 7. |
| 86 | 8600. | 795.3 | 51.3 | 745.0 | 702.5 | 005 | 7. |
| 87 | 8700. | 796.9 | 51.9 | 746.0 | 703.0 | 005 | 7. |
| 88 | 8800. | 798.5 | 52.5 | 747.0 | 703.5 | 005 | 7. |
| 89 | 8900. | 799.1 | 53.1 | 748.0 | 704.0 | 005 | 7. |
| 90 | 9000. | 800.7 | 53.7 | 749.0 | 704.5 | 005 | 7. |
| 91 | 9100. | 802.3 | 54.3 | 750.0 | 705.0 | 005 | 7. |
| 92 | 9200. | 803.9 | 54.9 | 751.0 | 705.5 | 005 | 7. |
| 93 | 9300. | 805.5 | 55.5 | 752.0 | 706.0 | 005 | 7. |
| 94 | 9400. | 807.1 | 56.1 | 753.0 | 706.5 | 005 | 7. |
| 95 | 9500. | 808.7 | 56.7 | 754.0 | 707.0 | 005 | 7. |
| 96 | 9600. | 810.3 | 57.3 | 755.0 | 707.5 | 005 | 7. |
| 97 | 9700. | 811.9 | 57.9 | 756.0 | 708.0 | 005 | 7. |
| 98 | 9800. | 813.5 | 58.5 | 757.0 | 708.5 | 005 | 7. |
| 99 | 9900. | 815.1 | 59.1 | 758.0 | 709.0 | 005 | 7. |
| 100 | 10000. | 816.7 | 59.7 | 759.0 | 709.5 | 005 | 7. |

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|-----|--------|-------|--------|--------|-------|-----------|----|
| 55 | 5500. | 723.0 | 497.4 | 225.6 | 232.2 | 005 | 0. |
| 56 | 5600. | 723.4 | 525.7 | 197.7 | 231.6 | 005 | 0. |
| 57 | 5700. | 724.1 | 567.7 | 156.4 | 230.2 | 005 | 0. |
| 58 | 5800. | 724.8 | 609.7 | 115.1 | 228.3 | 005 | 0. |
| 59 | 5900. | 725.5 | 651.7 | 73.7 | 225.6 | 005 | 2. |
| 60 | 6000. | 726.2 | 693.7 | 32.4 | 222.4 | 005 | 0. |
| 61 | 6100. | 726.8 | 735.8 | -8.9 | 218.6 | 005 | 0. |
| 62 | 6200. | 727.5 | 777.8 | -50.3 | 214.3 | 005 | 0. |
| 63 | 6300. | 728.2 | 819.3 | -91.6 | 209.4 | 005 | 0. |
| 64 | 6400. | 728.9 | 861.8 | -132.9 | 204.1 | 005 | 0. |
| 65 | 6500. | 729.5 | 903.8 | -174.3 | 198.3 | 005 | 0. |
| 66 | 6600. | 730.2 | 945.8 | -215.6 | 192.0 | 005 | 0. |
| 67 | 6700. | 730.9 | 987.8 | -256.9 | 185.3 | 005 | 0. |
| 68 | 6800. | 731.6 | 1029.8 | -298.2 | 178.2 | 005 | 0. |
| 69 | 6900. | 732.3 | 1071.8 | -339.6 | 170.7 | 005 | 0. |
| 70 | 7000. | 732.9 | 1113.8 | -380.9 | 162.8 | 005 | 0. |
| 71 | 7100. | 733.6 | 1155.9 | -422.2 | 154.6 | 005 | 0. |
| 72 | 7200. | 734.3 | 1197.9 | -463.6 | 146.0 | 005 | 0. |
| 73 | 7300. | 735.0 | 1239.9 | -504.9 | 137.1 | 005 | 0. |
| | 7340. | | | | SEC. | 7965.000 | |
| 74 | 7400. | 735.9 | 886.0 | -150.1 | 133.2 | 005 | 0. |
| | 7440. | | | | SEC. | 8065.000 | |
| | 7465. | | | | SEC. | 8090.000 | |
| 75 | 7500. | 738.2 | 2337.7 | ***** | 110.1 | 005 | 0. |
| | 7509. | | | | SEC. | 8134.000 | |
| | 7534. | | | | SEC. | 8159.000 | |
| 76 | 7600. | 738.3 | 483.2 | 255.0 | 112.0 | 005 | 0. |
| | 7634. | | | | SEC. | 8259.000 | |
| 77 | 7700. | 738.7 | 144.0 | 594.7 | 118.3 | 005 | 0. |
| 78 | 7800. | 739.8 | 75.2 | 664.6 | 125.3 | 005 | 0. |
| 79 | 7900. | 741.0 | 140.0 | 601.0 | 131.3 | 005 | 0. |
| 80 | 8000. | 742.3 | 204.9 | 537.4 | 136.4 | 005 | 0. |
| 81 | 8100. | 743.5 | 269.7 | 473.9 | 140.5 | 005 | 0. |
| 82 | 8200. | 744.8 | 334.5 | 410.3 | 143.8 | 005 | 0. |
| 83 | 8300. | 746.1 | 399.3 | 346.7 | 146.3 | 005 | 0. |
| | 8359. | | | | SEC. | 8984.000 | |
| 84 | 8400. | 747.5 | 644.8 | 102.7 | 145.7 | 005 | 0. |
| | 8459. | | | | SEC. | 9084.000 | |
| 85 | 8500. | 749.2 | 556.3 | 192.9 | 146.3 | 005 | 0. |
| | 8509. | | | | SEC. | 9134.000 | |
| 86 | 8600. | 751.2 | 128.9 | 622.2 | 151.8 | 005 | 0. |
| | 8665. | | | | SEC. | 9290.000 | |
| 87 | 8700. | 753.3 | 2098.8 | ***** | 134.6 | 005 | 0. |
| | 8715. | | | | SEC. | 9340.000 | |
| 88 | 8800. | 755.4 | 2853.6 | ***** | 109.2 | 005 | 0. |
| | 8815. | | | | SEC. | 9440.000 | |
| 89 | 8900. | 757.2 | 1099.6 | -342.5 | 104.2 | 005 | 0. |
| 90 | 9000. | 758.3 | 665.2 | 93.1 | 104.0 | 005 | 0. |
| 91 | 9100. | 759.5 | 622.7 | 136.7 | 104.4 | 005 | 0. |
| 92 | 9200. | 760.6 | 580.2 | 180.4 | 105.2 | 005 | 0. |
| 93 | 9300. | 761.7 | 537.7 | 224.0 | 106.5 | 005 | 0. |
| 94 | 9400. | 762.8 | 495.2 | 267.6 | 108.2 | 005 | 0. |
| 95 | 9500. | 764.0 | 452.7 | 311.3 | 110.4 | 005 | 1. |
| 96 | 9600. | 765.1 | 410.2 | 354.9 | 112.9 | 005 | 0. |
| 97 | 9700. | 766.2 | 367.7 | 398.5 | 115.9 | 005 | 0. |
| 98 | 9800. | 767.3 | 325.2 | 442.1 | 119.2 | 005 | 0. |
| 99 | 9900. | 768.4 | 282.7 | 485.8 | 122.9 | 005 | 0. |
| 100 | 10000. | 769.6 | 240.2 | 529.4 | 126.9 | 005 | 0. |
| 101 | 10100. | 770.7 | 197.7 | 573.0 | 131.4 | 005 | 0. |
| 102 | 10200. | 771.8 | 155.2 | 616.7 | 136.1 | 005 | 0. |
| 103 | 10300. | 772.9 | 112.6 | 660.3 | 141.2 | 005 | 0. |
| 104 | 10400. | 774.1 | 70.1 | 703.9 | 146.5 | 005 | 0. |
| 105 | 10500. | 775.2 | 27.6 | 747.5 | 152.3 | 005 | 0. |
| | 10515. | | | | SEC. | 11140.000 | |
| 106 | 10600. | 776.3 | 26.8 | 749.5 | 158.0 | 005 | 0. |
| 107 | 10700. | 777.5 | 75.1 | 702.5 | 163.1 | 005 | 1. |

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|-----|--------|-------|-------|-------|-------|-----|----|
| 108 | 10800. | 778.8 | 130.7 | 648.1 | 167.8 | 005 | 0. |
| 109 | 10900. | 780.0 | 186.3 | 593.7 | 171.5 | 005 | 0. |
| 110 | 11000. | 781.2 | 242.0 | 539.2 | 174.8 | 005 | 0. |
| 111 | 11100. | 782.4 | 297.6 | 484.8 | 177.6 | 005 | 0. |
| 112 | 11200. | 783.6 | 353.2 | 430.4 | 179.9 | 005 | 0. |
| 113 | 11300. | 784.9 | 408.8 | 376.0 | 181.6 | 005 | 0. |

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|-----|--------|-------|--------|-------|-------|-----------|----|
| | 11360. | | | | SEC. | 11985,000 | |
| 114 | 11400. | 786.1 | 831.8 | -45.7 | 179.6 | 005 | 0. |
| | 11410. | | | | SEC. | 12035,000 | |
| | 11460. | | | | SEC. | 12085,000 | |
| 115 | 11500. | 795.4 | 2.4 | 793.0 | 184.9 | 005 | 0. |
| | 11515. | | | | SEC. | 12140,000 | |
| | 11565. | | | | SEC. | 12190,000 | |
| 116 | 11600. | 801.2 | 5434.7 | ***** | 143.4 | 005 | 0. |
| | 11615. | | | | SEC. | 12240,000 | |

THIS REACH CAN BE SUBDIVIDED BY INC NO. TO MEET FIA REQUIREMENTS
 INPUT 20N WHERE N IS THE NUMBER OF REACHES AND THEN INPUT THE END
 OF EACH REACH BY INC NO. FOR EXAMPLE 202 1 116
 A NEGATIVE INC NO. WILL SUPPRESS INTERMEDIATE INC OUTPUT.

MADE IN U. S. A.

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