

THIS RUN EXECUTED 07/03/81 8:38:42

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 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979  
 ERROR CORR - 01,02,03  
 MODIFICATION - 50,51,52,53,54  
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T1	YANCEY CO NC FEMA STUDY										5
T2	10 YR FLOOD										10
T3	HANEY CREEK										15
FLOOD PROFILES											
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	2.	0.	0.	0.02618	0.	0.0	0.	0.0	0.0	20
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	0.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	25
J3	VARIABLE CODES FOR SUMMARY PRINTOUT										
	150.00	0.0	160.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
QT	5.	975.	1680.	2065.	3170.	2065.	0.	0.	0.	0.	35
NC	0.150	0.150	0.055	0.1	0.5						40
X1	0.01	12.	366.	384.	0.	0.	0.	0.0	0.0	0.	45
GR	2946.0	200.	2933.3	277.	2931.6	340.	2932.4	345.	2928.7	366.	50
GR	2925.7	372.	2925.0	377.	2928.2	384.	2928.9	390.	2932.3	400.	55
GR	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	0.0	0.	60
NC	0.120	0.120	0.040	0.0	0.0						65
X1	0.01	13.	355.	384.	40.	40.	40.	0.0	0.0	0.	70
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2932.6	2932.3		75
GR	2946.0	200.	2933.3	277.	2931.6	340.	2932.4	345.	2930.6	355.	80
GR	2928.7	366.	2925.7	372.	2925.0	377.	2928.2	384.	2928.6	390.	85
GR	2932.3	400.	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	90
X1	0.01	17.	355.	384.	1.	1.	1.	0.0	0.0	0.	95
BT	4.0	355.0	2934.6	0.0	355.0	2934.6	2933.7	384.0	2932.8	2931.5	100
BT	384.0	2932.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105
GR	2946.0	200.	2933.3	277.	2933.1	286.	2934.8	328.	2934.6	355.	110
GR	2931.5	355.	2930.5	360.	2933.4	360.	2933.3	362.	2925.5	362.	115
GR	2925.0	375.	2925.3	381.	2926.3	384.	2932.8	384.	2933.0	408.	120
GR	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	0.0	0.	125
X1	0.01	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	130
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	135
X1	0.01	13.	355.	384.	1.	1.	1.	0.0	0.0	0.	140
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2933.1	2932.8		145

801

GR	2946.0	200.	2933.3	277.	2931.6	340.	2932.4	345.	2930.6	355.	150
GR	2928.7	366.	2925.7	372.	2925.0	377.	2928.2	384.	2928.6	390.	155
GR	2932.3	400.	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	160

X1	0.01	12.	366.	384.	10.	10.	10.	0.0	0.0	0.	165
GR	2946.0	200.	2933.3	277.	2931.6	340.	2932.4	345.	2928.7	366.	170
GR	2925.7	372.	2925.0	377.	2928.2	384.	2928.9	390.	2932.3	400.	175
GR	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	0.0	0.	180
NC	0.150	0.150	0.055	0.0	0.8						185

X1	0.02	0.	0.	0.	50.	50.	50.	0.0	3.70	0.	190
QT	5.	970.	1670.	2050.	3155.	2050.	0.	0.	0.	0.	195
NC	0.100	0.150	0.050	0.0	0.0						200

X1	0.08	18.	298.	322.	270.	270.	270.	0.0	0.0	0.	205
GR	2957.5	200.	2943.7	222.	2943.5	270.	2943.0	287.	2943.5	298.	210
GR	2937.5	307.	2937.2	310.	2937.1	314.	2937.0	317.	2941.9	322.	215
GR	2944.6	387.	2951.3	410.	2951.4	417.	2949.2	430.	2949.5	460.	220
GR	2955.7	500.	2956.3	583.	2957.4	589.	0.0	0.	0.0	0.	225
NC	0.0	0.0	0.040	0.0	0.5						230

X1	0.08	0.	0.	0.	60.	60.	60.	0.0	0.0	0.	235
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2941.5	2943.8		240
SB	1.25	1.60	3.00	0.	4.00	0.01	22.00	0.0	2937.0	2937.0	245

X1	0.08	0.	0.	0.	25.	25.	25.	0.0	0.0	0.	250
X2	0.	0.0	1.	2942.5	2942.0	0.0	0.	0.0	0.0	0.	255
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2942.0	2944.3		260
BT	15.0	200.0	2957.5	0.0	222.0	2943.7	0.0	270.0	2943.5	0.0	265
BT	287.0	2943.0	0.0	298.0	2943.5	0.0	300.0	2942.0	0.0	314.0	270
BT	2943.9	0.0	402.0	2948.6	0.0	410.0	2951.3	0.0	417.0	2951.4	275
BT	0.0	430.0	2949.2	0.0	460.0	2949.5	0.0	500.0	2955.7	0.0	280
BT	583.0	2956.3	0.0	589.0	2957.4	0.0	0.0	0.0	0.0	0.0	285

X1	0.08	19.	298.	327.	15.	15.	15.	0.0	0.0	0.	290
GR	2957.5	200.	2943.7	222.	2943.5	270.	2943.0	287.	2943.5	298.	295
GR	2937.5	307.	2937.2	310.	2937.1	314.	2937.0	317.	2946.5	327.	300
GR	2946.5	343.	2946.5	393.	2951.3	410.	2951.4	417.	2949.2	430.	305
GR	2949.5	460.	2955.7	500.	2956.3	583.	2957.4	589.	0.0	0.	310
NC	0.150	0.150	0.060	0.0	0.8						315

X1	0.09	0.	0.	0.	30.	30.	30.	0.0	2.00	0.	320
QT	5.	960.	1660.	2035.	3135.	2035.	0.	0.	0.	0.	325
NC	0.080	0.130	0.055	0.0	0.8						330

X1	0.15	14.	312.	344.	210.	210.	210.	0.0	-0.50	0.	335
GR	2964.5	200.	2963.7	202.	2962.7	293.	2952.5	312.	2941.5	325.	340
GR	2941.5	330.	2953.6	344.	2953.5	367.	2953.8	377.	2953.8	397.	345
GR	2952.1	399.	2958.0	488.	2958.0	555.	2964.5	572.	0.0	0.	350
NC	0.0	0.0	0.0	0.0	0.5						355

001

C01

X1	0.15	14.	312.	344.	60.	60.	60.	0.0	0.0	0.	360
GR	2964.5	200.	2963.7	202.	2962.7	293.	2952.5	312.	2941.5	325.	365
GR	2941.5	330.	2953.6	344.	2953.5	367.	2953.8	377.	2953.8	397.	370
GR	2952.1	399.	2958.0	488.	2958.0	555.	2964.5	572.	0.0	0.	375
SB	1.25	1.60	3.00	0.	5.00	0.30	28.00	0.0	2941.5	2941.5	380

X1	0.15	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	385
X2	0.	0.0	1.	2947.5	2951.3	0.0	0.	0.0	0.0	0.	390
BT	14.0	200.0	2964.5	0.0	202.0	2963.7	0.0	293.0	2962.7	0.0	395
BT	313.0	2951.7	0.0	326.0	2951.3	0.0	342.0	2952.0	0.0	344.0	400
BT	2953.6	0.0	367.0	2953.5	0.0	377.0	2953.8	0.0	397.0	2953.8	405
BT	0.0	399.0	2952.1	0.0	488.0	2958.0	0.0	555.0	2958.0	0.0	410
BT	572.0	2964.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	415
NC	0.120	0.120	0.050	0.0	0.0						420

X1	0.15	14.	312.	344.	15.	15.	15.	0.0	0.0	0.	425
GR	2964.5	200.	2963.7	202.	2962.7	293.	2952.5	312.	2941.5	325.	430
GR	2941.5	330.	2953.6	344.	2953.5	367.	2953.8	377.	2953.8	397.	435
GR	2952.1	399.	2958.0	488.	2958.0	555.	2964.5	572.	0.0	0.	440
QT	5.	950.	1640.	2010.	3095.	2010.	0.	0.	0.	0.	445
NC	0.150	0.150	0.055	0.0	0.8						450

X1	0.30	14.	320.	335.	895.	895.	895.	0.0	0.0	0.	455
GR	3020.5	200.	3017.5	213.	3010.9	266.	3010.5	293.	3005.8	298.	460
GR	3005.4	316.	3002.0	320.	2999.3	323.	2999.3	327.	3003.3	335.	465
GR	3006.5	420.	3013.5	506.	3017.5	537.	3020.5	577.	0.0	0.	470
NC	0.0	0.0	0.0	0.0	0.5						475

X1	0.30	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	480
X3	10.	0.0	0.0	0.	0.0	0.	0.0	3004.8	3004.3		485
SB	1.25	1.60	3.00	0.	15.00	0.30	72.00	0.0	2999.3	2999.3	490

X1	0.30	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	495
X2	0.	0.0	1.	3004.2	3004.8	0.0	0.	0.0	0.0	0.	500
X3	10.	0.0	0.0	0.	0.0	0.	0.0	3005.3	3004.8		505
BT	12.0	200.0	3020.5	0.0	213.0	3017.5	0.0	266.0	3010.9	0.0	510
BT	293.0	3010.5	0.0	298.0	3005.8	0.0	316.0	3005.4	0.0	345.0	515
BT	3005.0	0.0	370.0	3004.8	0.0	420.0	3006.5	0.0	506.0	3013.5	520
BT	0.0	537.0	3017.5	0.0	577.0	3020.5	0.0	0.0	0.0	0.0	525

X1	0.30	14.	320.	335.	10.	10.	10.	0.0	0.0	0.	530
GR	3020.5	200.	3017.5	213.	3010.9	266.	3010.5	293.	3005.8	298.	535
GR	3005.4	316.	3002.0	320.	3000.0	327.	3000.8	331.	3003.3	335.	540
GR	3006.5	420.	3013.5	506.	3017.5	537.	3020.5	577.	0.0	0.	545
QT	5.	945.	1635.	2005.	3085.	2005.	0.	0.	0.	0.	550

X1	0.32	0.	0.	0.	100.	100.	100.	0.0	0.0	0.	555
QT	5.	945.	1630.	1995.	3075.	1995.	0.	0.	0.	0.	560

X1	0.37	0.	0.	0.	250.	250.	250.	0.0	15.20	0.	565
EJ											570

D01

\*PROF 1

CCHV= 0.100 CEHV= 0.500

\*SECNO .010  
2096 MSEL NOT GIVEN,AVG OF MAX,MIN USED

HANEY CREEK		10 YR FLOOD				07/03/81		TRIAL		TOP MID		
MILE	ELEV	Q	CRIMS	ALOB	ACH	AROB	DHV	IDC	BANK	BANK		
DEPTH	SLOPE	MSELK	MTN	VLOB	VCH	VRB	HL	EG	LEFT	RIGHT		
			ELMIN	XNL	XNCH	XNR	OLOSS	CORAR	STA	ENDST	VOL	
				XLOBL	XLCH	XLOBR	MSDL	MSDR				

3720 CRITICAL DEPTH ASSUMED											
0.01	975.	25.	900.	50.	1.77	0	43.				
2930.96	975.	15.	81.	21.	0.50	11	2928.70				
5.96	0.0	1.69	11.09	2.43	0.0	0	2928.20				
0.025052	0.0	0.150	0.055	0.150	0.0	-0.00	353.16				
	2925.00	0.	0.	0.	22.	21.	396.07				0.

\*SECNO .010

3301 HV CHANGED MORE THAN HVINS

0.01	975.	19.	882.	74.	0.53	5	101.				
2932.62	0.0	33.	144.	48.	-1.23	0	2930.60				
7.62	0.0	0.58	6.14	1.55	0.30	15	2928.20				
0.003482	0.039	0.120	0.040	0.120	0.12	-0.00	302.35				
	2925.00	40.	40.	40.	67.	34.	403.61				0.

\*SECNO .010

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70											
0.01	975.	0.	975.	0.	0.57	2	27.				
2932.60	0.0	0.	161.	0.	0.04	0	2934.60				
7.60	0.0	0.0	6.07	0.0	0.00	17	2932.80				
0.007758	0.038	0.120	0.040	0.120	0.02	-8.01	355.00				
	2925.00	1.	1.	1.	15.	15.	384.00				0.

\*SECNO .010

\*\*\* GR CARDS REPEATED

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70											
0.01	975.	0.	975.	0.	0.56	2	27.				
2932.70	0.0	0.	162.	0.	-0.01	0	2934.60				
7.70	0.0	0.0	6.02	0.0	0.09	27	2932.80				
0.007847	0.038	0.120	0.040	0.120	0.00	-9.56	355.00				
	2925.00	12.	12.	12.	15.	15.	384.00				0.

\*SECNO .010

HANEY CREEK  
Q  
MILE  
ELEV  
DEPTH  
SLOPE

QLOB  
ALOB  
VLOB  
XNL  
XLOBL

10 YR FLOOD  
QCH  
ACH  
VCH  
XNCH  
XLCH

GRQB  
AROB  
VROB  
XNR  
XLOBR

07/03/81

HV  
DHV  
HL  
OLOSS  
WSDL

ITRIAL  
IDC  
EG  
CORAR  
WSDR

TOPWID  
BANK ELEV  
LEFT/RIGHT  
SSTA  
ENDST

VOL

3495 OVERBANK AREA ASSUMED NON-EFFECTIVE, ELLEA= 2933.10 ELREA= 2932.80

C.01 975. 0. 975. 0. 0.71 2 29. 2930.60  
2932.64 0.0 0. 144. 0. 0.15 0 2928.20  
7.64 0.0 0.0 6.76 0.0 0.01 2933.35 355.00  
0.004196 0.037 0.120 0.040 0.120 0.07 -0.00 384.00  
2925.00 1. 1. 1. 1. 15. 15. 0.

\*SECNO .010

975. 69. 833. 74.  
0.01 69. 112. 46.  
2932.66 0.0 7.45 1.61  
7.66 0.0 0.040 0.120  
0.003906 0.037 0.120 10.  
2925.00 10.

CCHV= 0.100 CEHV= 0.800

\*SECNO .020

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK  
Q  
MILE  
ELEV  
DEPTH  
SLOPE

QLOB  
ALOB  
VLOB  
XNL  
XLOBL

10 YR FLOOD  
QCH  
ACH  
VCH  
XNCH  
XLCH

GRQB  
AROB  
VROB  
XNR  
XLOBR

07/03/81

HV  
DHV  
HL  
OLOSS  
WSDL

ITRIAL  
IDC  
EG  
CORAR  
WSDR

TOPWID  
BANK ELEV  
LEFT/RIGHT  
SSTA  
ENDST

VOL

3685 20 TRIALS ATTEMPTED WSEL CWSEL  
3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED  
0.02 975. 25. 900. 51.  
2934.67 2934.67 15. 81. 21.  
5.97 0.0 1.68 11.05 2.42  
0.024833 0.044 0.150 0.055 0.150  
2928.70 50. 50.

\*SECNO .080

HANEY CREEK  
Q  
MILE  
ELEV  
DEPTH  
SLOPE

QLOB  
ALOB  
VLOB  
XNL  
XLOBL

10 YR FLOOD  
QCH  
ACH  
VCH  
XNCH  
XLCH

GRQB  
AROB  
VROB  
XNR  
XLOBR

07/03/81

HV  
DHV  
HL  
OLOSS  
WSDL

ITRIAL  
IDC  
EG  
CORAR  
WSDR

TOPWID  
BANK ELEV  
LEFT/RIGHT  
SSTA  
ENDST

VOL

7185 MINIMUM SPECIFIC ENERGY

E01

\*\*\*  
331

36  
36  
37

0

F01

F01

3720 CRITICAL DEPTH ASSUMED

0.08	970.	0.	965.	5.	1.81	4	39.
2942.59	2942.59	0.	89.	6.	0.05	12	2943.50
5.59	0.0	0.0	10.81	0.79	6.83	2944.40	2941.90
0.025767	0.048	0.100	0.050	0.150	0.04	-0.00	299.36
	2937.00	270.	270.	270.	11.	29.	338.70

CCHV= 0.100 CEHV= 0.500  
\*SECNO .080

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.08	970.	66.	849.	55.	0.56	2	162.
2944.43	0.0	74.	133.	78.	-1.25	0	2943.50
7.43	0.0	0.89	6.39	0.70	0.46	2944.99	2941.90
0.003672	0.047	0.100	0.040	0.150	0.12	-0.00	220.82
	2937.00	60.	60.	60.	89.	73.	383.11

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	4.00	0.01	22.00	0.0
	ELCHU	ELCHD						
	2937.00	2937.00						

\*SECNO .080

\*\*\* GR CARDS REPEATED  
HANEY CREEK

MILE	Q	QLOB	10 YR FLOOD	QROB	07/03/81	ITRIAL	TOPWID
ELEV	CRISW	ALOB	QCH	AROB	HV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	ACH	VROB	DHV	EG	LEFT/RIGHT
SLOPE	WTN	XNL	VCH	XNR	HL	CORAR	SSTA
	ELMIN	XLOBL	XNCH	XLOBR	OLOSS	WSDR	ENDST
			XLCH		WSDL		VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
2992.73	2944.99	0.00	835.	138.	22.	22.	2942.50
ELTRD							
2942.00							

0.08	970.	115.	774.	81.	0.34	2	169.
2945.06	0.0	123.	148.	119.	-0.22	0	2943.50
8.06	0.0	0.94	5.22	0.68	0.42	2945.40	2941.90
0.002127	0.046	0.100	0.040	0.150	0.0	-0.00	219.81
	2937.00	25.	25.	25.	90.	79.	388.62

\*SECNO .080

0.08	970.	130.	840.	0.	0.40	2	106.
2945.07	0.0	123.	154.	0.	0.06	0	2943.50
8.07	0.0	1.06	5.44	0.0	0.04	2945.47	2946.50

G01

601

0.002697	0.046	0.100	0.040	0.150	0.03	-0.00	219.82	
	2937.00	15.	15.	15.	93.	13.	325.49	2.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .090

\*\*\* GR CARDS REPEATED

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.09	970.	0.	970.	0.	1.43	2	28.	
2945.05	0.0	0.	101.	0.	1.03	0	2945.50	
6.05	0.0	0.02	9.59	0.0	0.19	2946.48	2948.50	
0.028094	0.047	0.150	0.060	0.150	0.82	-0.00	285.21	
	2939.00	30.	30.	30.	27.	11.	323.37	2.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .150

3301 HV CHANGED MORE THAN HVINS

0.15	960.	0.	960.	0.	0.92	2	25.	
2949.42	0.0	0.	125.	0.	-0.51	0	2952.00	
8.42	0.0	0.0	7.69	0.0	3.80	2950.33	2953.10	
0.012597	0.049	0.080	0.055	0.130	0.05	-0.00	315.06	
	2941.00	210.	210.	210.	13.	12.	339.73	2.

CCHV= 0.100 CEHV= 0.500  
\*SECNO .150

0.15	960.	0.	960.	0.	0.81	2	25.	
2950.23	0.0	0.	133.	0.	-0.11	0	2952.50	
8.73	0.0	0.0	7.22	0.0	0.69	2951.04	2953.60	
0.010649	0.050	0.080	0.055	0.130	0.01	-0.00	314.68	
	2941.50	60.	60.	60.	13.	12.	340.11	3.

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 2950.13 NOT 2950.23  
HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.30	28.00	0.0
	ELCHU	ELCHD						
	2941.50	2941.50						

\*SECNO .150

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK

10 YR FLOOD

07/03/81

H01

MILE ELEV DEPTH SLOPE	Q CRIWS WSELK WTN ELMIN	QLOB ALOB VLOB XNL XLOBL	QCH ACH VCH XNCH XLCH	QROB AROB VROB XNR XLOBR	HV DHV HL OLOSS WSDL	ITRIAL IDC EG CORAR WSDR	TOPWID BANK ELEV LEFT/RIGHT SSTA ENDST	VOL
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PRESSURE AND WEIR FLOW

EGPRS 2979.43	EGLWC 2956.12	H3 0.0	QWEIR 611.	QPR 357.	BAREA 28.	TAREA 28.	ELLC 2947.50	
ELTRD 2951.30								

0.15 2954.05 12.55 0.001817	960. 0.0 0.0 0.050 2941.50	1. 2. 0.61 0.080 12.	938. 245. 3.83 0.055 12.	20. 51. 0.39 0.130 12.	0.22 -0.59 3.23 0.0 19.	2 0 2954.27 -0.00 100.	119. 2952.50 2953.60 309.12 428.37	3.
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*SECNO .150 0.15 2954.07 12.57 0.001485	960. 0.0 0.0 0.049 2941.50	1. 2. 0.37 0.120 15.	938. 246. 3.81 0.050 15.	21. 53. 0.39 0.120 15.	0.22 -0.00 0.02 0.00 19.	2 0 2954.29 -0.00 101.	120. 2952.50 2953.60 309.07 428.76	3.
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CCHV= 0.100 CEHV= 0.800  
\*SECNO .300

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		10 YR FLOOD			07/03/81			
MILE ELEV DEPTH SLOPE	Q CRIWS WSELK WTN ELMIN	QLOB ALOB VLOB XNL XLOBL	QCH ACH VCH XNCH XLCH	QROB AROB VROB XNR XLOBR	HV DHV HL OLOSS WSDL	ITRIAL IDC EG CORAR WSDR	TOPWID BANK ELEV LEFT/RIGHT SSTA ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL 3693 PROBABLE MINIMUM SPECIFIC ENERGY 3720 CRITICAL DEPTH ASSUMED	0.30 3005.86 6.56 0.018237	950. 3005.86 0.0 0.052 2999.30	19. 13. 1.40 0.150 895.	793. 78. 10.12 0.055 895.	138. 87. 1.58 0.150 895.	1.33 1.11 3.20 0.89 30.	20 11 3007.20 -0.00 76.	105. 3002.00 3003.30 297.93 403.07	8.
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CCHV= 0.100 CEHV= 0.500  
\*SECNO .300

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30	950.	50.	646.	254.	0.46	3	132.	
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101

3007.19	0.0	44.	98.	198.	-0.87	0	3002.00	
7.89	0.0	1.14	6.58	1.29	0.38	3007.66	3003.30	
0.005700	0.052	0.150	0.055	0.150	0.09	-0.00	296.52	
	2999.30	40.	40.	40.	31.	101.	428.46	8.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.30	72.00	0.0
	ELCHU	ELCHD						
	2999.30	2999.30						

\*SECNO .300

\*\*\* GR CARDS REPEATED  
6870 D.S. ENERGY OF 3007.66 HIGHER THAN COMPUTED ENERGY OF 3007.43  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
3011.52	3007.69	0.03	734.	224.	72.	72.	3004.20	
ELTRD								
3004.80								
0.30	950.	50.	645.	255.	0.46	2	132.	
3007.20	0.0	44.	99.	199.	-0.01	0	3002.00	
7.90	0.0	1.14	6.54	1.28	0.0	3007.66	3003.30	
0.005626	0.052	0.150	0.055	0.150	0.0	-0.00	296.51	
	2999.30	12.	12.	12.	31.	101.	428.65	8.

\*SECNO .300

HANEY CREEK		10 YR FLOOD			07/03/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.30	950.	54.	621.	275.	0.47	0	133.	
3007.25	0.0	45.	92.	204.	0.01	0	3002.00	
7.25	0.0	1.20	6.74	1.35	0.06	3007.72	3003.30	
0.006078	0.052	0.150	0.055	0.150	0.01	-0.00	296.45	
	3000.00	10.	10.	10.	31.	102.	429.28	8.

\*SECNO .320

*** GR CARDS REPEATED								
0.32	945.	65.	560.	320.	0.29	2	142.	
3007.91	0.0	61.	102.	268.	-0.18	0	3002.00	
7.91	0.0	1.08	5.50	1.19	0.46	3008.20	3003.30	
0.003531	0.052	0.150	0.055	0.150	0.02	-0.00	295.76	
	3000.00	100.	100.	100.	32.	110.	437.31	9.

\*SECNO .370

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		10 YR FLOOD			07/03/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST		VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL

3693 PROBABLE MINIMUM SPECIFIC ENERGY

3720 CRITICAL DEPTH ASSUMED

0.37	945.	24.	756.	165.	1.32	20	109.		
3021.22	3021.22	17.	73.	98.	1.03	15	3017.20		
6.02	0.0	1.45	10.28	1.68	1.73	3022.54	3018.50		
0.019097	0.053	0.150	0.055	0.150	0.52	-0.00	297.77		
	3015.20	250.	250.	250.	30.	80.	407.20		11.

K01

THIS RUN EXECUTED 07/03/81 8:38:46

\*\*\*\*\*  
HEC2 RELEASE DATED NOV 76 UPDATED JULY1979  
ERROR CORR - 01,02,03  
MODIFICATION - 50,51,52,53,54  
\*\*\*\*\*

T1	YANCEY CO NC FEMA STUDY										575
T2	50 YR FLOOD										580
T3	HANEY CREEK										585
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	3.	0.	0.	0.02618	0.	0.0	0.	0.0	0.0	590
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	2.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	595

L01

\*PROF 2

CCHV= 0.100 CEHV= 0.500

\*SECNO .010

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

HANEY CREEK			50 YR FLOOD		07/03/81		TOPWID		VOL
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
3720 CRITICAL DEPTH ASSUMED									
0.01	1680.	166.	1366.	148.	1.69	0	122.		
2933.03	2933.03	96.	118.	54.	0.50	15	2928.70		
8.03	0.0	1.73	11.53	2.73	0.0	2934.73	2928.20		
0.016374	0.0	0.150	0.055	0.150	0.0	-0.00	286.84		
	2925.00	0.	0.	0.	88.	33.	408.39		0.

\*SECNO .010

3301 HV CHANGED MORE THAN HVINS

0.01	1680.	190.	1327.	162.	0.56	3	150.		
2934.50	0.0	176.	198.	102.	-1.14	0	2930.60		
9.50	0.0	1.08	6.70	1.59	0.22	2935.06	2928.20		
0.002692	0.039	0.120	0.040	0.120	0.11	-0.00	269.73		
	2925.00	40.	40.	40.	100.	50.	419.32		0.

\*SECNO .010

3265 DIVIDED FLOW

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

0.01	1680.	47.	1540.	93.	0.99	2	108.		
2934.29	0.0	30.	185.	42.	0.43	0	2934.60		
9.29	0.0	1.53	8.31	2.23	0.01	2935.28	2932.80		
0.023088	0.038	0.120	0.040	0.120	0.22	-30.96	270.97		
	2925.00	1.	1.	1.	99.	49.	418.47		0.

\*SECNO .010

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

0.01	1680.	101.	1435.	144.	0.69	3	153.		
2934.86	0.0	64.	201.	62.	-0.30	0	2934.60		
9.86	0.0	1.57	7.14	2.33	0.23	2935.54	2932.80		
0.016311	0.038	0.120	0.040	0.120	0.03	-31.70	267.57		
	2925.00	12.	12.	12.	102.	51.	420.79		0.

\*SECNO .010

M01

HANEY CREEK		50 YR FLOOD			07/03/81		TOPWID		VOL
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
0.01	1680.	244.	1261.	175.	0.40	2	157.		
2935.18	0.0	236.	218.	128.	-0.29	0	2930.60		
10.18	0.0	1.03	5.78	1.37	0.00	2935.58	2928.20		
0.001767	0.037	0.120	0.040	0.120	0.03	-0.00	265.57		
	2925.00	1.	1.	1.	104.	53.	422.16		

\*SECNO .010

0.01	1680.	375.	1116.	189.	0.54	2	156.
2935.13	0.0	291.	156.	123.	0.14	0	2928.70
10.13	0.0	1.29	7.15	1.53	0.02	2935.67	2928.20
0.002301	0.037	0.120	0.040	0.120	0.07	-0.00	265.90
	2925.00	10.	10.	10.	109.	47.	421.93

CCHV= 0.100 CEHV= 0.800  
\*SECNO .020

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		50 YR FLOOD			07/03/81		TOPWID		VOL
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
7185 MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.02	1680.	164.	1368.	148.	1.71	4	121.		
2936.72	2936.72	94.	118.	54.	1.17	12	2932.40		
8.02	0.0	1.74	11.58	2.74	0.24	2938.43	2931.90		
0.016566	0.044	0.150	0.055	0.150	0.94	-0.00	287.49		
	2928.70	50.	50.	50.	88.	33.	408.20		

\*SECNO .080

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		50 YR FLOOD			07/03/81		TOPWID		VOL
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
7185 MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.08	1670.	180.	1356.	134.	1.21	2	167.		
2944.70	2944.70	94.	139.	94.	-0.51	11	2943.50		

A02

7.70	0.0	1.92	9.74	1.42	3.88	2945.90	2941.90	
0.012562	0.048	0.100	0.050	0.150	0.05	0.0	220.41	
	2937.00	270.	270.	270.	90.	77.	387.33	3.

CCHV= 0.100 CEHV= 0.500  
 \*SECNO .080

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.08	1670.	270.	1221.	179.	0.64	2	172.	
2945.70	0.0	173.	163.	162.	-0.56	0	2943.50	
8.70	0.0	1.56	7.48	1.10	0.38	2946.34	2941.90	
0.003824	0.047	0.100	0.040	0.150	0.06	-0.00	218.80	
	2937.00	60.	60.	60.	91.	81.	390.79	3.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	4.00	0.01	22.00	0.0
	ELCHU	ELCHD						
	2937.00	2937.00						

\*SECNO .080

\*\*\* GR CARDS REPEATED

PRESS FLOW BECAUSE EGLWC OF 2946.34 EXCEEDS 1.5 DEPTH  
 HANEY CREEK 50 YR FLOOD 07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
3088.86	2946.34	0.01	1549.	120.	22.	22.	2942.50	
	ELTRD							
	2942.00							
0.08	1670.	285.	1198.	187.	0.58	3	173.	
2945.86	0.0	185.	167.	172.	-0.06	0	2943.50	
8.86	0.0	1.54	7.17	1.09	0.10	2946.44	2941.90	
0.003416	0.046	0.100	0.040	0.150	0.0	-0.00	218.56	
	2937.00	25.	25.	25.	91.	81.	391.32	4.

\*SECNO .080

0.08	1670.	328.	1342.	0.	0.74	2	108.	
2945.84	0.0	184.	176.	0.	0.16	0	2943.50	
8.84	0.0	1.79	7.63	0.0	0.06	2946.57	2946.50	
0.004662	0.046	0.100	0.040	0.150	0.08	-0.00	218.59	
	2937.00	15.	15.	15.	94.	14.	326.30	4.

B02

CCHV= 0.100 CEHV= 0.800  
\*SECNO .090

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		50 YR FLOOD			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			VOL
7185 MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.09	1670.	168.	1502.	0.	1.51	2	105.		
2946.71	2946.71	95.	145.	0.	0.78	15	2945.50		
7.71	0.0	1.77	10.39	0.0	0.27	2948.22	2948.50		
0.023586	0.047	0.150	0.060	0.150	0.62	-0.00	220.39		
	2939.00	30.	30.	30.	92.	13.	325.12		4.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .150

0.15	1660.	0.	1660.	0.	1.55	3	28.		
2950.96	0.0	0.	166.	0.	0.04	0	2952.00		
9.96	0.0	0.0	10.00	0.0	4.26	2952.51	2953.10		
0.017609	0.049	0.080	0.055	0.130	0.03	-0.00	313.22		
	2941.00	210.	210.	210.	15.	14.	341.53		5.

CCHV= 0.100 CEHV= 0.500  
\*SECNO .150

3265 DIVIDED FLOW

0.15	1660.	0.	1660.	0.	1.21	2	32.		
2952.23	0.0	0.	188.	0.	-0.34	0	2952.50		
10.73	0.0	0.0	8.81	0.19	0.89	2953.44	2953.60		
0.012604	0.050	0.080	0.055	0.130	0.03	-0.00	312.32		
	2941.50	60.	60.	60.	16.	73.	400.96		5.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.30	28.00	0.0
	ELCHU	ELCHD						
	2941.50	2941.50						

\*SECNO .150

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK                      50 YR FLOOD                      07/03/81

C02

C02

MILE ELEV DEPTH SLOPE	Q CRIWS WSELK WTN ELMIN	QLOB ALOB VLOB XNL XLOBL	QCH ACH VCH XNCH XLCH	QROB AROB VROB XNR XLOBR	HV DHV HL OLOSS WSDL	ITRIAL IDC EG CORAR WSDR	TOPWID BANK ELEV LEFT/RIGHT SSTA ENDST	VOL
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PRESSURE AND WEIR FLOW

EGPRS 3039.55	EGLWC 2953.76	H3 0.32	QWEIR 1349.	QPR 312.	BAREA 28.	TAREA 28.	ELLC 2947.50	
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ELTRD 2951.30								
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0.15 2954.82 13.32 0.003613	1660. 0.0 0.0 0.050 2941.50	6. 5. 1.14 0.080 12.	1556. 270. 5.76 0.055 12.	98. 122. 0.81 0.130 12.	0.48 -0.72 1.87 0.0 20.	2 0 2955.31 -0.00 112.	133. 2952.50 2953.60 307.66 440.18	5.
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\*SECNO .150

0.15 2954.88 13.38 0.002923	1660. 0.0 0.0 0.049 2941.50	4. 5. 0.69 0.120 15.	1555. 272. 5.72 0.050 15.	102. 127. 0.80 0.120 15.	0.48 -0.01 0.05 0.00 20.	2 0 2955.36 -0.00 113.	133. 2952.50 2953.60 307.57 440.94	6.
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CCHV= 0.100 CEHV= 0.800  
\*SECNO .300

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		50 YR FLOOD			07/03/81			
MILE ELEV DEPTH SLOPE	Q CRIWS WSELK WTN ELMIN	QLOB ALOB VLOB XNL XLOBL	QCH ACH VCH XNCH XLCH	QROB AROB VROB XNR XLOBR	HV DHV HL OLOSS WSDL	ITRIAL IDC EG CORAR WSDR	TOPWID BANK ELEV LEFT/RIGHT SSTA ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL  
3693 PROBABLE MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

0.30 3007.23 7.93 0.016447	1640. 3007.23 0.0 0.052 2999.30	87. 45. 1.96 0.150 895.	1109. 99. 11.22 0.055 895.	444. 201. 2.21 0.150 895.	1.34 0.87 5.15 0.69 31.	20 11 3008.57 -0.00 101.	132. 3002.00 3003.30 296.48 428.94	13.
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CCHV= 0.100 CEHV= 0.500  
\*SECNO .300

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30	1640.	122.	932.	585.	0.58	3	149.	
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D02

3000.17	0.0	74	117	327	-0.77	0	3002.00	
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D02

3008.47	0.0	74.	117.	327.	-0.77	0	3002.00	
9.17	0.0	1.65	7.94	1.79	0.39	3009.04	3003.30	
0.006556	0.052	0.150	0.055	0.150	0.08	-0.00	295.17	14.
	2999.30	40.	40.	40.	32.	117.	444.11	

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.30	72.00	0.0
	ELCHU	ELCHD						
	2999.30	2999.30						

\*SECNO .300

\*\*\* GR CARDS REPEATED  
6870 D.S. ENERGY OF 3009.04 HIGHER THAN COMPUTED ENERGY OF 3008.74  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
3021.35	3009.08	0.04	1401.	241.	72.	72.	3004.20

ELTRD  
3004.80

0.30	1640.	123.	931.	587.	0.57	2	149.
3008.47	0.0	75.	118.	328.	-0.00	0	3002.00
9.17	0.0	1.64	7.91	1.79	0.0	3009.04	3003.30
0.006498	0.052	0.150	0.055	0.150	0.0	-0.00	295.15
	2999.30	12.	12.	12.	32.	117.	444.27

\*SECNO .300

HANEY CREEK

50 YR FLOOD

07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.30	1640.	129.	896.	615.	0.57	0	150.	
3008.54	0.0	76.	111.	335.	0.00	0	3002.00	
8.54	0.0	1.69	8.05	1.84	0.07	3009.11	3003.30	
0.006740	0.052	0.150	0.055	0.150	0.00	-0.00	295.09	
	3000.00	10.	10.	10.	32.	118.	445.00	14.

\*SECNO .320

\*\*\* GR CARDS REPEATED

0.32	1635.	142.	822.	671.	0.37	2	160.
3009.28	0.0	95.	122.	420.	-0.20	0	3002.00
9.28	0.0	1.50	6.71	1.60	0.52	3009.65	3003.30
0.004123	0.052	0.150	0.055	0.150	0.02	-0.00	294.30
	3000.00	100.	100.	100.	33.	127.	454.13

\*SECNO .370

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		50 YR FLOOD			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRIS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL									
3693 PROBABLE MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.37	1630.	99.	1036.	495.	1.21	20	135.		
3022.63	3022.63	49.	95.	220.	0.84	14	3017.20		
7.43	0.0	2.00	10.94	2.25	1.79	3023.84	3018.50		
0.015430	0.053	0.150	0.055	0.150	0.42	-0.00	296.27		
	3015.20	250.	250.	250.	31.	104.	431.43		18.

718  
372  
2  
0.  
CCH  
\*SE  
326  
330  
2  
0.  
CCH  
\*SE  
330  
2  
0.  
SPE  
SB  
2  
\*SE  
\*\*\*

THIS RUN EXECUTED 07/03/81 8:38:48

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979  
 ERROR CORR - 01,02,03  
 MODIFICATION - 50,51,52,53,54  
 \*\*\*\*\*

T1	YANCEY CO NC FEMA STUDY										600
T2	100 YR FLOOD										605
T3	HANEY CREEK										610
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	4.	0.	0.	0.02618	0.	0.0	0.	0.0	0.0	615
J2	NPROF	IPL0T	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	3.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	620

PRE  
 ?  
 ?  
 ?  
 0.  
 \*SE  
 ?  
 0.  
 CCI  
 \*SI  
 330  
 360  
 360  
 370  
 :  
 0.  
 CCI  
 \*SI  
 \*\*1  
 330  
 :  
 0

\*PROF 3

CCHV= 0.100 CEHV= 0.500

\*SECNO .010

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID		VOL
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
3720 CRITICAL DEPTH ASSUMED									
0.01	2065.	314.	1546.	205.	1.62	0	142.		
2933.78	2933.78	161.	132.	76.	0.50	12	2928.70		
8.78	0.0	1.94	11.72	2.71	0.0	2935.40	2928.20		
0.014656	0.0	0.150	0.055	0.150	0.0	0.0	274.08		
	2925.00	0.	0.	0.	101.	41.	416.34	0.	

\*SECNO .010

3301 HV CHANGED MORE THAN HVINS

0.01	2065.	291.	1561.	213.	0.63	3	156.	
2935.09	0.0	227.	215.	124.	-0.99	0	2930.60	
10.09	0.0	1.28	7.25	1.72	0.22	2935.72	2928.20	
0.002830	0.039	0.120	0.040	0.120	0.10	-0.00	266.17	
	2925.00	40.	40.	40.	103.	52.	421.75	0.

\*SECNO .010

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

0.01	2065.	134.	1748.	183.	0.99	2	154.	
2934.91	0.0	70.	203.	64.	0.37	0	2934.60	
9.91	0.0	1.92	8.63	2.86	0.01	2935.91	2932.80	
0.023535	0.038	0.120	0.040	0.120	0.18	-31.70	267.21	
	2925.00	1.	1.	1.	102.	52.	421.03	0.

\*SECNO .010

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

0.01	2065.	240.	1593.	232.	0.65	3	160.	
2935.51	0.0	123.	220.	87.	-0.35	0	2934.60	
10.51	0.0	1.95	7.25	2.68	0.22	2936.16	2932.80	
0.014889	0.038	0.120	0.040	0.120	0.03	-31.70	263.62	
	2925.00	12.	12.	12.	106.	54.	423.49	1.

\*SECNO .010

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC		

H02

DEPTH SLOPE	WSELK WTN ELMIN	VLOB XNL XLOBL	VCH XNCH XLCH	VROB XNR XLOBR	HL OLOSS WSDL	EG CORAR WSDR	LEFT/RIGHT SSTA ENDST	VOL
0.01	2065.	345.	1494.	226.	0.47	2	162.	
2935.72	0.0	284.	234.	149.	-0.18	0	2930.60	
10.72	0.0	1.21	6.40	1.52	0.00	2936.18	2928.20	
0.001974	0.037	0.120	0.040	0.120	0.02	-0.00	262.34	
	2925.00	1.	1.	1.	107.	55.	424.37	1.

\*SECNO .010

0.01	2065.	514.	1305.	246.	0.62	2	161.	
2935.66	0.0	345.	166.	144.	0.15	0	2928.70	
10.66	0.0	1.49	7.87	1.71	0.02	2936.28	2928.20	
0.002580	0.037	0.120	0.040	0.120	0.08	-0.00	262.68	
	2925.00	10.	10.	10.	112.	49.	424.13	1.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .020

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK 100 YR FLOOD 07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL CWSEL  
3693 PROBABLE MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

0.02	2065.	315.	1544.	206.	1.61	20	142.	
2937.49	2937.49	162.	132.	76.	0.99	12	2932.40	
8.79	0.0	1.94	11.69	2.70	0.26	2939.10	2931.90	
0.014560	0.044	0.150	0.055	0.150	0.79	0.0	274.03	
	2928.70	50.	50.	50.	101.	41.	416.37	1.

\*SECNO .080  
HANEY CREEK 100 YR FLOOD 07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRIWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

0.08	2050.	316.	1517.	217.	1.17	4	170.	
2945.22	2945.22	135.	152.	129.	-0.44	10	2943.50	
8.22	0.0	2.34	9.99	1.68	3.53	2946.39	2941.90	
0.011773	0.048	0.100	0.050	0.150	0.04	-0.00	219.57	
	2937.00	270.	270.	270.	90.	79.	389.14	4.

CCHV= 0.100 CEHV= 0.500  
 \*SECNO .080

\*\*\* GR CARDS REPEATED

0.08	2050.	375.	1432.	243.	0.76	2	174.
2946.07	0.0	202.	172.	187.	-0.40	0	2943.50
9.07	0.0	1.85	8.31	1.30	0.41	2946.84	2941.90
0.004404	0.047	0.100	0.040	0.150	0.04	-0.00	218.21
	2937.00	60.	60.	60.	92.	82.	392.07

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	4.00	0.01	22.00	0.0
	ELCHU	ELCHD						
	2937.00	2937.00						

\*SECNO .080

\*\*\* GR CARDS REPEATED

PRESS FLOW BECAUSE EGLWC OF HANEY CREEK 2946.84 EXCEEDS 1.5 DEPTH 07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST
							VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
3161.80	2946.84	0.01	1917.	124.	22.	22.	2942.50
ELTRD							
2942.00							

0.08	2050.	382.	1421.	247.	0.73	3	174.
2946.14	0.0	208.	174.	192.	-0.03	0	2943.50
9.14	0.0	1.84	8.18	1.29	0.03	2946.87	2941.90
0.004212	0.046	0.100	0.040	0.150	0.0	-0.00	218.11
	2937.00	25.	25.	25.	92.	82.	392.28

\*SECNO .080

0.08	2050.	441.	1609.	0.	0.96	2	108.
2946.10	0.0	204.	183.	0.	0.22	0	2943.50
9.10	0.0	2.16	8.78	0.0	0.07	2947.05	2946.50
0.005931	0.046	0.100	0.040	0.150	0.11	-0.00	218.18
	2937.00	15.	15.	15.	94.	14.	326.58

CCHV= 0.100 CEHV= 0.800  
 \*SECNO .090

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

J02

HANEY CREEK			100 YR FLOOD		07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK	ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
7185 MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.09	2050.	311.	1739.	0.	1.57	2	106.		
2947.27	2947.27	139.	160.	0.	0.61	12	2945.50		
8.27	0.0	2.24	10.88	0.0	0.31	2948.84	2948.50		
0.023371	0.047	0.150	0.060	0.150	0.49	-0.00	219.49		
	2939.00	30.	30.	30.	93.	13.	325.71		5.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .150

3265 DIVIDED FLOW

0.15	2035.	0.	2035.	0.	1.84	2	31.		
2951.68	0.0	0.	187.	0.	0.27	0	2952.00		
10.68	0.0	0.0	10.90	0.02	4.46	2953.52	2953.10		
0.019368	0.049	0.080	0.055	0.130	0.22	-0.00	312.38		
	2941.00	210.	210.	210.	16.	72.	400.18		6.

CCHV= 0.100 CEHV= 0.500  
\*SECNO .150

3265 DIVIDED FLOW

0.15	2035.	0.	2027.	7.	1.36	2	50.		
2953.14	0.0	0.	216.	9.	-0.49	0	2952.50		
11.64	0.0	0.90	9.37	0.82	0.93	2954.50	2953.60		
0.012596	0.050	0.080	0.055	0.130	0.05	-0.00	310.81		
	2941.50	60.	60.	60.	17.	87.	414.66		7.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.30	28.00	0.0
	ELCHU	ELCHD						
	2941.50	2941.50						

\*SECNO .150

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK			100 YR FLOOD		07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK	ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR			

K02

ELMIN XLOBL XLCH XLOBR WSDL WSDR ENDST VOL

K02

ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
PRESSURE AND WEIR FLOW							
EGPRS 3084.37	EGLWC 2954.87	H3 0.37	QWEIR 1748.	QPR 288.	BAREA 28.	TAREA 28.	ELLC 2947.50
ELTRD 2951.30							
0.15 2955.12 13.62 0.004677	2035. 0.0 0.0 0.050 2941.50	9. 6. 1.40 0.080 12.	1873. 280. 6.70 0.055 12.	153. 150. 1.02 0.130 12.	0.64 -0.72 1.27 0.0 21.	3 0 2955.76 -0.00 117.	137. 2952.50 2953.60 307.12 444.55
*SECNO .150							
0.15 2955.20 13.70 0.003735	2035. 0.0 0.0 0.049 2941.50	6. 7. 0.85 0.120 15.	1869. 282. 6.62 0.050 15.	161. 158. 1.01 0.120 15.	0.63 -0.02 0.06 0.00 21.	2 0 2955.83 -0.00 118.	139. 2952.50 2953.60 306.97 445.74

CCHV= 0.100 CEHV= 0.800  
\*SECNO .300

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID		VOL
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
3685 20 TRIALS ATTEMPTED WSEL CWSEL									
3693 PROBABLE MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.30 3007.74 8.44 0.016518	2010. 3007.74 0.0 0.052 2999.30	127. 57. 2.24 0.150 895.	1259. 107. 11.81 0.055 895.	625. 251. 2.49 0.150 895.	1.39 0.77 6.11 0.61 32.	20 12 3009.13 -0.00 108.	139. 3002.00 3003.30 295.94 435.21	16.	

CCHV= 0.100 CEHV= 0.500  
\*SECNO .300

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30 3008.97 9.67 0.007074	2010. 0.0 0.0 0.052 2999.30	163. 87. 1.87 0.150 40.	1076. 125. 8.60 0.055 40.	771. 384. 2.01 0.150 40.	0.64 -0.75 0.41 0.07 33.	3 0 3009.62 -0.00 123.	156. 3002.00 3003.30 294.63 450.37	16.
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L02

SPECIAL BRIDGE

SB	HK	XKOR	COFq	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.30	72.00	0.0
	ELCHU	ELCHD						
	2999.30	2999.30						

\*SECNO .300

\*\*\* GR CARDS REPEATED  
6870 D.S. ENERGY OF 3009.62 HIGHER THAN COMPUTED ENERGY OF 3009.29  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
3028.34	3009.66	0.04	1758.	255.	72.	72.	3004.20	
ELTRD								
3004.80								
0.30	2010.	163.	1074.	773.	0.64	2	156.	
3008.98	0.0	88.	125.	385.	-0.01	0	3002.00	
9.68	0.0	1.87	8.57	2.00	0.0	3009.62	3003.30	
0.007009	0.052	0.150	0.055	0.150	0.0	-0.00	294.61	
	2999.30	12.	12.	12.	33.	123.	450.54	16.

\*SECNO .300

HANEY CREEK		100 YR FLOOD			07/03/81			
Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
CRIS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL	
0.30	2010.	170.	1035.	805.	0.64	0	157.	
3009.05	0.0	89.	119.	393.	-0.00	0	3002.00	
9.05	0.0	1.91	8.70	2.05	0.07	3009.69	3003.30	
0.007190	0.052	0.150	0.055	0.150	0.00	-0.00	294.54	
	3000.00	10.	10.	10.	33.	124.	451.33	16.

\*SECNO .320

*** GR CARDS REPEATED								
0.32	2005.	185.	952.	868.	0.41	2	167.	
3009.85	0.0	110.	131.	490.	-0.22	0	3002.00	
9.85	0.0	1.68	7.27	1.77	0.55	3010.27	3003.30	
0.004409	0.052	0.150	0.055	0.150	0.02	-0.00	293.69	
	3000.00	100.	100.	100.	34.	134.	461.18	18.

\*SECNO .370

\*\*\* GR CARDS REPEATED  
3301 HV CHANGED MORE THAN HVINS

M02

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
3685 20 TRIALS ATTEMPTED WSEL,CWSEL									
3693 PROBABLE MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
	0.37	1995.	137.	1189.	669.	1.32	20	141.	
	3023.07	3023.07	60.	101.	264.	0.90	14	3017.20	
	7.87	0.0	2.29	11.75	2.54	1.90	3024.38	3018.50	
	0.016277	0.053	0.150	0.055	0.150	0.45	-0.00	295.80	
		3015.20	250.	250.	250.	32.	109.	436.78	21.

THIS RUN EXECUTED 07/03/81 8:38:51

\*\*\*\*\*  
HEC2 RELEASE DATED NOV 76 UPDATED JULY1979  
ERROR CORR - 01,02,03  
MODIFICATION - 50,51,52,53,54  
\*\*\*\*\*

T1	YANCEY CO NC FEMA STUDY											625
T2	500 YR FLOOD											630
T3	HANEY CREEK											635
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ		
	0.	5.	0.	0.	0.02618	0.	0.0	0.	0.0	0.0	640	
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE		
	15.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	645	

\*PROF 4

CCHV= 0.100 CEHV= 0.500

\*SECNO .010

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

HANEY CREEK

500 YR FLOOD

07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3720 CRITICAL DEPTH ASSUMED

0.01	3170.	733.	2063.	374.	1.85	0	155.	
2935.01	2935.01	279.	154.	119.	0.50	12	2928.70	
10.01	0.0	2.62	13.39	3.15	0.0	2936.87	2928.20	
0.015542	0.0	0.150	0.055	0.150	0.0	-0.00	266.61	
	2925.00	0.	0.	0.	108.	46.	421.45	0.

\*SECNO .010

3301 HV CHANGED MORE THAN HVINS

0.01	3170.	605.	2198.	367.	0.83	3	169.	
2936.39	0.0	347.	253.	176.	-1.02	0	2930.60	
11.39	0.0	1.74	8.70	2.08	0.25	2937.22	2928.20	
0.003283	0.039	0.120	0.040	0.120	0.10	-0.00	258.31	
	2925.00	40.	40.	40.	111.	58.	427.12	1.

\*SECNO .010

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

0.01	3170.	593.	2135.	442.	0.84	0	169.	
2936.39	0.0	206.	246.	123.	0.01	0	2934.60	
11.39	0.0	2.88	8.70	3.58	0.01	2937.23	2932.80	
0.018488	0.038	0.120	0.040	0.120	0.01	-31.70	258.24	
	2925.00	1.	1.	1.	111.	58.	427.17	1.

\*SECNO .010

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

0.01	3170.	679.	2020.	471.	0.66	2	173.	
2936.78	0.0	245.	257.	141.	-0.18	0	2934.60	
11.78	0.0	2.77	7.86	3.35	0.19	2937.44	2932.80	
0.014237	0.038	0.120	0.040	0.120	0.02	-31.70	255.86	
	2925.00	12.	12.	12.	114.	59.	428.80	1.

\*SECNO .010

HANEY CREEK

500 YR FLOOD

07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	

C03

DEPTH SLOPE	WSELK WTN ELMIN	VLOB XNL XLOBL	VCH XNCH XLCH	VROB XNR XLOBR	HL OLOSS WSDL	EG CORAR WSDR	LEFT/RIGHT SSTA ENDST	VOL
0.01	3170.	643.	2150.	377.	0.72	2	173.	
2936.76	0.0	384.	264.	193.	0.05	0	2930.60	
11.76	0.0	1.67	8.16	1.96	0.01	2937.47	2928.20	
0.002730	0.037	8.120	0.040	0.120	0.03	-0.00	256.05	
	2925.00	1.	1.	1.	113.	59.	428.67	1.

\*SECNO .010

0.01	3170.	921.	1836.	413.	0.92	2	172.	
2936.68	0.0	454.	184.	187.	0.21	0	2928.70	
11.68	0.0	2.03	9.97	2.21	0.03	2937.61	2928.20	
0.003596	0.037	0.120	0.040	0.120	0.10	-0.00	256.48	
	2925.00	10.	10.	10.	119.	53.	428.38	1.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .020

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		500 YR FLOOD			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC			
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST		VOL

3685 20 TRIALS ATTEMPTED WSEL, CWSEL  
3693 PROBABLE MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

0.02	3170.	735.	2061.	374.	1.84	20	155.	
2938.72	2938.72	280.	154.	119.	0.92	12	2932.40	
10.02	0.0	2.62	13.36	3.14	0.33	2940.57	2931.90	
0.015454	0.044	0.150	0.055	0.150	0.74	-0.00	266.55	
	2928.70	50.	50.	50.	108.	46.	421.49	2.

\*SECNO .080

HANEY CREEK		500 YR FLOOD			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC			
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST		VOL

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

0.08	3155.	682.	2031.	441.	1.41	3	174.	
2946.14	2946.14	208.	174.	192.	-0.43	10	2943.50	
9.14	0.0	3.29	11.69	2.30	3.89	2947.55	2941.90	
0.013444	0.048	0.100	0.050	0.150	0.04	-0.00	218.11	
	2937.00	270.	270.	270.	92.	82.	392.29	5.

D03

CCHV= 0.100 CEHV= 0.500

D03

CCHV= 0.100 CEHV= 0.500  
\*SECNO .080

\*\*\* GR CARDS REPEATED

0.08	3155.	717.	1986.	452.	1.04	2	179.
2947.05	0.0	281.	196.	257.	-0.38	0	2943.50
10.05	0.0	2.55	10.15	1.76	0.49	2948.08	2941.90
0.005550	0.047	0.100	0.040	0.150	0.04	-0.00	216.66
	2937.00	60.	60.	60.	93.	85.	395.40

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	4.00	0.01	22.00	0.0
	ELCHU	ELCHD						
	2937.00	2937.00						

\*SECNO .080

\*\*\* GR CARDS REPEATED

PRESS FLOW BECAUSE EGLWC OF 2948.09 EXCEEDS 1.5 DEPTH  
6870 D.S. ENERGY OF 2948.08 HIGHER THAN COMPUTED ENERGY OF 2947.98  
HANEY CREEK 500 YR FLOOD 07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST
							VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
3458.01	2948.09	0.01	3000.	135.	22.	22.	2942.50
ELTRD							
2942.00							

0.08	3155.	719.	1983.	453.	1.03	3	179.
2947.06	0.0	282.	196.	258.	-0.01	0	2943.50
10.06	0.0	2.55	10.12	1.75	0.0	2948.08	2941.90
0.005495	0.046	0.100	0.040	0.150	0.0	-0.00	216.64
	2937.00	25.	25.	25.	93.	85.	395.46

\*SECNO .080

0.08	3155.	832.	2307.	16.	1.44	4	178.
2946.95	2946.36	273.	208.	30.	0.41	11	2943.50
9.95	0.0	3.05	11.10	0.53	0.10	2948.39	2946.50
0.008178	0.046	0.100	0.040	0.150	0.20	-0.00	216.81
	2937.00	15.	15.	15.	96.	82.	394.61

CCHV= 0.100 CEHV= 0.800  
\*SECNO .090

\*\*\* GR CARDS REPEATED  
HANEY CREEK

500 YR FLOOD 07/03/81

E03

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID
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E03

MILE ELEV DEPTH SLOPE	Q CRIWS WSELK WTN ELMIN	QLOB ALOB VLOB XNL XLOBL	QCH ACH VCH XNCH XLCH	QROB AROB VROB XNR XLOBR	HV DHV HL OLOSS WSDL	ITRIAL IDC EG CORAR WSDR	TOPWID BANK ELEV LEFT/RIGHT SSTA ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY								
3720 CRITICAL DEPTH ASSUMED								
0.09	3155.	749.	2406.	0.	1.88	3	109.	
2948.44	2948.44	231.	193.	0.	0.45	8	2945.50	
9.44	0.0	3.24	12.47	0.0	0.40	2950.32	2948.50	
0.025602	0.047	0.150	0.060	0.150	0.36	-0.00	217.64	
	2939.00	30.	30.	30.	95.	14.	326.93	7.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .150

3265 DIVIDED FLOW

3301 HV CHANGED MORE THAN HVINS

0.15	3135.	3.	3093.	39.	2.61	4	94.	
2953.29	2952.53	2.	237.	30.	0.73	12	2952.00	
12.29	0.0	1.89	13.05	1.30	5.00	2955.90	2953.10	
0.022154	0.049	0.080	0.055	0.130	0.58	-0.00	309.60	
	2941.00	210.	210.	210.	18.	96.	424.44	9.

CCHV= 0.100 CEHV= 0.500  
\*SECNO .150

3301 HV CHANGED MORE THAN HVINS

0.15	3135.	19.	2802.	314.	1.27	3	145.	
2955.56	0.0	9.	294.	195.	-1.34	0	2952.50	
14.06	0.0	2.14	9.55	1.61	0.80	2956.83	2953.60	
0.008910	0.050	0.080	0.055	0.130	0.13	-0.00	306.31	
	2941.50	60.	60.	60.	22.	123.	451.10	9.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.30	28.00	0.0
	ELCHU	ELCHD						
	2941.50	2941.50						

\*SECNO .150

\*\*\* GR CARDS REPEATED  
HANEY CREEK

MILE ELEV DEPTH SLOPE	Q CRIWS WSELK WTN ELMIN	QLOB ALOB VLOB XNL XLOBL	500 YR FLOOD QCH ACH VCH XNCH XLCH	QROB AROB VROB XNR XLOBR	HV DHV HL OLOSS WSDL	07/03/81 ITRIAL IDC EG CORAR WSDR	TOPWID BANK ELEV LEFT/RIGHT SSTA ENDST	VOL
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PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
3267.01	2957.13	0.30	2934.	211.	28.	28.	2947.50	
ELTRD								
2951.30								
0.15	3135.	22.	2745.	368.	1.12	3	150.	
2955.84	0.0	10.	303.	228.	-0.15	0	2952.50	
14.34	0.0	2.11	9.06	1.61	0.13	2956.97	2953.60	
0.007688	0.050	0.080	0.055	0.130	0.0	-0.00	305.76	
	2941.50	12.	12.	12.	22.	128.	455.58	9.
*SECNO .150								
0.15	3135.	15.	2729.	391.	1.07	2	152.	
2956.01	0.0	11.	308.	245.	-0.05	0	2952.50	
14.51	0.0	1.28	8.86	1.59	0.10	2957.07	2953.60	
0.005949	0.049	0.120	0.050	0.120	0.01	-0.00	305.47	
	2941.50	15.	15.	15.	23.	130.	457.91	10.

CCHV= 0.100 CEHV= 0.800  
 \*SECNO .300

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		500 YR FLOOD			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG			
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST		VOL
3685	20 TRIALS ATTEMPTED WSEL CWSEL								
3693	PROBABLE MINIMUM SPECIFIC ENERGY								
3720	CRITICAL DEPTH ASSUMED								
0.30	3095.	248.	1674.	1173.	1.61	20	154.		
3008.88	3008.88	85.	124.	373.	0.54	18	3002.00		
9.58	0.0	2.92	13.54	3.15	8.52	3010.49	3003.30		
0.017794	0.052	0.150	0.055	0.150	0.43	-0.00	294.73		
	2999.30	895.	895.	895.	33.	122.	449.21		21.

CCHV= 0.100 CEHV= 0.500  
 \*SECNO .300

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30	3095.	287.	1458.	1350.	0.80	3	172.		
3010.23	0.0	120.	144.	538.	-0.81	0	3002.00		
10.93	0.0	2.40	10.14	2.51	0.46	3011.03	3003.30		
0.008150	0.052	0.150	0.055	0.150	0.08	-0.00	293.29		
	2999.30	40.	40.	40.	34.	138.	465.76		22.



SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 3009.11 NOT 3010.23  
 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.30	72.00	0.0
	ELCHU	ELCHD						
	2999.30	2999.30						

\*SECNO .300

\*\*\* GR CARDS REPEATED  
 6870 D.S. ENERGY OF 3011.03 HIGHER THAN COMPUTED ENERGY OF 3010.63  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
3056.14	3012.99	0.0	2809.	289.	72.	72.	3004.20	
ELTRD								
3004.80								
0.30	3095.	288.	1455.	1352.	0.80	2	173.	
3010.23	0.0	120.	144.	541.	-0.01	0	3002.00	
10.93	0.0	2.39	10.10	2.50	0.0	3011.03	3003.30	
0.008067	0.052	0.150	0.055	0.150	0.0	-0.00	293.27	
	2999.30	12.	12.	12.	34.	138.	466.00	22.

\*SECNO .300

HANEY CREEK		500 YR FLOOD			07/03/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	MTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.30	3095.	296.	1408.	1391.	0.79	0	174.	
3010.32	0.0	122.	138.	550.	-0.01	0	3002.00	
10.32	0.0	2.42	10.21	2.53	0.08	3011.11	3003.30	
0.008125	0.052	0.150	0.055	0.150	0.00	-0.00	293.20	
	3000.00	10.	10.	10.	34.	139.	466.88	22.

\*SECNO .320

*** GR CARDS REPEATED								
0.32	3085.	320.	1297.	1468.	0.52	2	215.	
3011.25	0.0	163.	152.	679.	-0.27	0	3002.00	
11.25	0.0	1.96	8.54	2.16	0.63	3011.77	3003.30	
0.004994	0.052	0.150	0.055	0.150	0.03	-0.00	263.19	
	3000.00	100.	100.	100.	64.	151.	478.36	25.

\*SECNO .370

\*\*\* GR CARDS REPEATED

H03

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		500 YR FLOOD			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			VOL
3685 20 TRIALS ATTEMPTED WSEL CWSEL									
3693 PROBABLE MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
	0.37	3075.	250.	1639.	1186.	1.78	20	153.	
3023.95	3023.95	81.	114.	358.	1.26	19	3017.20		
8.75	0.0	3.07	14.33	3.31	2.24	3025.72	3018.50		
0.020541	0.053	0.150	0.055	0.150	0.63	-0.00	294.87		
	3015.20	250.	250.	250.	33.	120.	447.59		29.

\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED JULY 1979  
 ERROR CORR - 01 02 03  
 MODIFICATION - 50,51,52,53,54  
 \*\*\*\*\*

THIS RUN EXECUTED 07/03/81 8:38:55

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

HANEY CREEK

SUMMARY PRINTOUT TABLE 150

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIMS	EG	10K*S	VCH	AREA	.01K
*	0.010	0.	0.0	2925.0	975.0	2930.96	2930.96	2932.73	250.52	11.09	116.49	61.60
*	0.010	0.	0.0	2925.0	1680.0	2933.03	2933.03	2934.73	163.74	11.53	268.37	131.29
*	0.010	0.	0.0	2925.0	2065.0	2933.78	2933.78	2935.40	146.56	11.72	369.02	170.57
*	0.010	0.	0.0	2925.0	3170.0	2935.01	2935.01	2936.87	155.42	13.39	552.26	254.28
	0.010	40.	0.0	2925.0	975.0	2932.62	0.0	2933.15	34.82	6.14	224.54	165.23
	0.010	40.	0.0	2925.0	1680.0	2934.50	0.0	2935.06	26.92	6.70	476.72	323.79
	0.010	40.	0.0	2925.0	2065.0	2935.09	0.0	2935.72	28.30	7.25	566.27	388.18
	0.010	40.	0.0	2925.0	3170.0	2936.39	0.0	2937.22	32.83	8.70	776.40	553.29
	0.010	1.	2932.8	2925.0	975.0	2932.60	0.0	2933.17	77.58	6.07	160.70	110.69
	0.010	1.	2932.8	2925.0	1680.0	2934.29	0.0	2935.28	230.88	8.31	257.64	110.57
	0.010	1.	2932.8	2925.0	2065.0	2934.91	0.0	2935.91	235.35	8.63	336.18	134.61
	0.010	1.	2932.8	2925.0	3170.0	2936.39	0.0	2937.23	184.88	8.70	575.16	233.14
	0.010	12.	2932.8	2925.0	975.0	2932.70	0.0	2933.27	78.47	6.02	161.92	110.07
	0.010	12.	2932.8	2925.0	1680.0	2934.86	0.0	2935.54	163.11	7.14	327.09	131.54
	0.010	12.	2932.8	2925.0	2065.0	2935.51	0.0	2936.16	148.89	7.25	429.24	169.23
	0.010	12.	2932.8	2925.0	3170.0	2936.78	0.0	2937.44	142.37	7.86	642.05	265.67
	0.010	1.	0.0	2925.0	975.0	2932.64	0.0	2933.35	41.96	6.76	144.19	150.51
	0.010	1.	0.0	2925.0	1680.0	2935.18	0.0	2935.58	17.67	5.78	581.64	399.63
	0.010	1.	0.0	2925.0	2065.0	2935.72	0.0	2936.18	19.74	6.40	666.53	464.73
	0.010	1.	0.0	2925.0	3170.0	2936.76	0.0	2937.47	27.30	8.16	840.18	606.69
	0.010	10.	0.0	2925.0	975.0	2932.66	0.0	2933.40	39.06	7.45	226.40	156.00
	0.010	10.	0.0	2925.0	1680.0	2935.13	0.0	2935.67	23.01	7.15	570.29	350.20
	0.010	10.	0.0	2925.0	2065.0	2935.66	0.0	2936.28	25.80	7.87	654.64	406.57
	0.010	10.	0.0	2925.0	3170.0	2936.68	0.0	2937.61	35.96	9.97	825.13	528.65
*	0.020	50.	0.0	2928.7	975.0	2934.67	2934.67	2936.43	248.33	11.05	116.94	61.87
*	0.020	50.	0.0	2928.7	1680.0	2936.72	2936.72	2938.43	165.66	11.58	266.31	130.53
*	0.020	50.	0.0	2928.7	2065.0	2937.49	2937.49	2939.10	145.60	11.69	370.37	171.14
*	0.020	50.	0.0	2928.7	3170.0	2938.72	2938.72	2940.57	154.54	13.36	553.71	255.00
*	0.080	270.	0.0	2937.0	970.0	2942.59	2942.59	2944.40	257.67	10.81	95.14	60.43
*	0.080	270.	0.0	2937.0	1670.0	2944.70	2944.70	2945.90	125.62	9.74	327.29	149.00
*	0.080	270.	0.0	2937.0	2050.0	2945.22	2945.22	2946.39	117.73	9.99	415.77	188.94
*	0.080	270.	0.0	2937.0	3155.0	2946.14	2946.14	2947.55	134.44	11.69	573.34	272.10

J03

K03

K03

SECNO	XLCH	ELTRD	ELLC	ELMKN	Q	CWSEL	CRIMS	EG	10K*S	VCH	AREA	.01K
0.080	60.	0.0	0.0	2937.0	970.0	2944.43	0.0	2944.99	36.72	6.39	284.64	160.08
0.080	60.	0.0	0.0	2937.0	1670.0	2945.70	0.0	2946.34	38.24	7.48	497.99	270.05
0.080	60.	0.0	0.0	2937.0	2050.0	2946.07	0.0	2946.84	44.04	8.31	562.18	308.91
0.080	60.	0.0	0.0	2937.0	3155.0	2947.05	0.0	2948.08	55.50	10.15	733.50	423.50
0.080	25.	2942.0	2942.5	2937.0	970.0	2945.06	0.0	2945.40	21.27	5.22	390.02	210.33
0.080	25.	2942.0	2942.5	2937.0	1670.0	2945.86	0.0	2946.44	34.16	7.17	524.37	285.73
0.080	25.	2942.0	2942.5	2937.0	2050.0	2946.14	0.0	2946.87	42.12	8.18	573.28	315.86
0.080	25.	2942.0	2942.5	2937.0	3155.0	2947.06	0.0	2948.08	54.95	10.12	736.47	425.62
0.080	15.	0.0	0.0	2937.0	970.0	2945.07	0.0	2945.47	26.97	5.44	277.32	186.79
0.080	15.	0.0	0.0	2937.0	1670.0	2945.84	0.0	2946.57	46.62	7.63	359.27	244.59
0.080	15.	0.0	0.0	2937.0	2050.0	2946.10	0.0	2947.05	59.31	8.78	387.39	266.19
0.080	15.	0.0	0.0	2937.0	3155.0	2946.95	0.0	2948.39	81.78	11.10	511.30	348.87
0.090	30.	0.0	0.0	2939.0	970.0	2945.05	0.0	2946.48	280.94	9.59	101.24	57.87
0.090	30.	0.0	0.0	2939.0	1670.0	2946.71	0.0	2948.22	235.86	10.39	239.76	108.74
0.090	30.	0.0	0.0	2939.0	2050.0	2947.27	0.0	2948.84	233.71	10.88	298.79	134.10
0.090	30.	0.0	0.0	2939.0	3155.0	2948.44	0.0	2950.32	256.02	12.47	424.20	197.18
0.150	210.	0.0	0.0	2941.0	960.0	2949.42	0.0	2950.33	125.97	7.69	124.79	85.53
0.150	210.	0.0	0.0	2941.0	1660.0	2950.96	0.0	2952.51	176.09	10.00	166.08	125.10
0.150	210.	0.0	0.0	2941.0	2035.0	2951.68	0.0	2953.52	193.68	10.90	186.81	146.22
0.150	210.	0.0	0.0	2941.0	3135.0	2953.29	2952.53	2955.90	221.54	13.05	268.54	210.63
0.150	60.	0.0	0.0	2941.5	960.0	2950.23	0.0	2951.04	106.49	7.22	132.91	93.03
0.150	60.	0.0	0.0	2941.5	1660.0	2952.23	0.0	2953.44	126.04	8.81	188.46	147.86
0.150	60.	0.0	0.0	2941.5	2035.0	2953.14	0.0	2954.50	125.96	9.37	225.50	181.32
0.150	60.	0.0	0.0	2941.5	3135.0	2955.56	0.0	2956.83	89.10	9.55	497.69	332.13
0.150	12.	2951.3	2947.5	2941.5	960.0	2954.05	0.0	2954.27	18.17	3.83	298.79	225.19
0.150	12.	2951.3	2947.5	2941.5	1660.0	2954.82	0.0	2955.31	36.13	5.76	397.32	276.16
0.150	12.	2951.3	2947.5	2941.5	2035.0	2955.12	0.0	2955.76	46.77	6.70	436.47	297.58
0.150	12.	2951.3	2947.5	2941.5	3135.0	2955.84	0.0	2956.97	76.88	9.06	541.48	357.54
0.150	15.	0.0	0.0	2941.5	960.0	2954.07	0.0	2954.29	14.85	3.81	301.86	249.14
0.150	15.	0.0	0.0	2941.5	1660.0	2954.88	0.0	2955.36	29.23	5.72	404.09	307.05
0.150	15.	0.0	0.0	2941.5	2035.0	2955.20	0.0	2955.83	37.35	6.62	447.39	333.00
0.150	15.	0.0	0.0	2941.5	3135.0	2956.01	0.0	2957.07	59.49	8.86	564.88	406.44
0.300	895.	0.0	0.0	2999.3	950.0	3005.86	3005.86	3007.20	182.37	10.12	179.12	70.35
0.300	895.	0.0	0.0	2999.3	1640.0	3007.23	3007.23	3008.57	164.47	11.22	344.61	127.88
0.300	895.	0.0	0.0	2999.3	2010.0	3007.74	3007.74	3009.13	165.18	11.81	413.96	156.39
0.300	895.	0.0	0.0	2999.3	3095.0	3008.88	3008.88	3010.49	177.94	13.54	581.40	232.02
0.300	40.	0.0	0.0	2999.3	950.0	3007.19	0.0	3007.66	57.00	6.58	339.43	125.83
0.300	40.	0.0	0.0	2999.3	1640.0	3008.47	0.0	3009.04	65.56	7.94	518.35	202.54
0.300	40.	0.0	0.0	2999.3	2010.0	3008.97	0.0	3009.62	70.74	8.60	595.97	238.99
0.300	40.	0.0	0.0	2999.3	3095.0	3010.23	0.0	3011.03	81.50	10.14	801.60	342.84
0.300	12.	3004.8	3004.2	2999.3	950.0	3007.20	0.0	3007.66	56.26	6.54	341.52	126.65
0.300	12.	3004.8	3004.2	2999.3	1640.0	3008.47	0.0	3009.04	64.98	7.91	520.34	203.45
0.300	12.	3004.8	3004.2	2999.3	2010.0	3008.98	0.0	3009.62	70.09	8.57	598.23	240.08
0.300	12.	3004.8	3004.2	2999.3	3095.0	3010.23	0.0	3011.03	80.67	10.10	804.91	344.59

SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIMS	EG	10K*S	VCH	AREA	.01K
0.300	10.	0.0	0.0	3000.0	950.0	3007.25	0.0	3007.72	60.78	6.74	341.05	121.85
0.300	10.	0.0	0.0	3000.0	1640.0	3008.54	0.0	3009.11	67.40	8.05	521.98	199.76
0.300	10.	0.0	0.0	3000.0	2010.0	3009.05	0.0	3009.69	71.90	8.70	600.94	237.04
0.300	10.	0.0	0.0	3000.0	3095.0	3010.32	0.0	3011.11	81.25	10.21	810.18	343.37
0.320	100.	0.0	0.0	3000.0	945.0	3007.91	0.0	3008.20	35.31	5.50	430.74	159.03
0.320	100.	0.0	0.0	3000.0	1635.0	3009.28	0.0	3009.65	41.23	6.71	636.99	254.63
0.320	100.	0.0	0.0	3000.0	2005.0	3009.85	0.0	3010.27	44.09	7.27	730.93	301.94
0.320	100.	0.0	0.0	3000.0	3085.0	3011.25	0.0	3011.77	49.94	8.54	993.30	436.56
0.370	250.	0.0	0.0	3015.2	945.0	3021.22	3021.22	3022.54	190.97	10.28	188.56	68.38
0.370	250.	0.0	0.0	3015.2	1630.0	3022.63	3022.63	3023.84	154.30	10.94	364.38	131.22
0.370	250.	0.0	0.0	3015.2	1995.0	3023.07	3023.07	3024.38	162.77	11.75	424.55	156.37
0.370	250.	0.0	0.0	3015.2	3075.0	3023.95	3023.95	3025.72	205.41	14.33	553.73	214.55

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## HANEY CREEK

## SUMMARY PRINTOUT TABLE 150

SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
* 0.010	975.	2931.0	0.0	0.0	0.0	42.91	0.0
* 0.010	1680.	2933.0	2.1	0.0	0.0	121.55	0.0
* 0.010	2065.	2933.8	0.7	0.0	0.0	142.25	0.0
* 0.010	3170.	2935.0	1.2	0.0	0.0	154.84	0.0
0.010	975.	2932.6	0.0	1.7	0.0	101.27	40.00
0.010	1680.	2934.5	1.9	1.5	0.0	149.59	40.00
0.010	2065.	2935.1	0.6	1.3	0.0	155.58	40.00
0.010	3170.	2936.4	1.3	1.4	0.0	168.81	40.00
0.010	975.	2932.6	0.0	-0.0	0.0	27.00	1.00
0.010	1680.	2934.3	1.7	-0.2	0.0	108.01	1.00
0.010	2065.	2934.9	0.6	-0.2	0.0	153.82	1.00
0.010	3170.	2936.4	1.5	0.0	0.0	168.94	1.00
0.010	975.	2932.7	0.0	0.1	0.0	27.00	12.00
0.010	1680.	2934.9	2.2	0.6	0.0	153.22	12.00
0.010	2065.	2935.5	0.7	0.6	0.0	159.88	12.00
0.010	3170.	2936.8	1.3	0.4	0.0	172.93	12.00
0.010	975.	2932.6	0.0	-0.1	0.0	29.00	1.00
0.010	1680.	2935.2	2.5	0.3	0.0	156.59	1.00
0.010	2065.	2935.7	0.5	0.2	0.0	162.03	1.00
0.010	3170.	2936.8	1.0	-0.0	0.0	172.62	1.00
0.010	975.	2932.7	0.0	0.0	0.0	103.48	10.00
0.010	1680.	2935.1	2.5	-0.1	0.0	156.03	10.00
0.010	2065.	2935.7	0.5	-0.1	0.0	161.45	10.00
0.010	3170.	2936.7	1.0	-0.1	0.0	171.90	10.00
0.020	975.	2934.7	0.0	2.0	0.0	43.00	50.00
0.020	1680.	2936.7	2.0	1.6	0.0	120.71	50.00
0.020	2065.	2937.5	0.8	1.8	0.0	142.34	50.00
0.020	3170.	2938.7	1.2	2.0	0.0	154.93	50.00
0.080	970.	2942.6	0.0	7.9	0.0	39.34	270.00
0.080	1670.	2944.7	2.1	8.0	0.0	166.92	270.00
0.080	2050.	2945.2	0.5	7.7	0.0	169.57	270.00
0.080	3155.	2946.1	0.9	7.4	0.0	174.18	270.00
0.080	970.	2944.4	0.0	1.8	0.0	162.29	60.00
0.080	1670.	2945.7	1.3	1.0	0.0	171.99	60.00
0.080	2050.	2946.1	0.4	0.8	0.0	173.85	60.00
0.080	3155.	2947.0	1.0	0.9	0.0	178.74	60.00
0.080	970.	2945.1	0.0	0.6	0.0	168.80	25.00
0.080	1670.	2945.9	0.8	0.2	0.0	172.76	25.00
0.080	2050.	2946.1	0.3	0.1	0.0	174.17	25.00
0.080	3155.	2947.1	0.9	0.0	0.0	178.82	25.00
0.080	970.	2945.1	0.0	0.0	0.0	105.68	15.00
0.080	1670.	2945.8	0.8	-0.0	0.0	107.71	15.00

A04

0.080	2050.	2946.1	0.3	-0.0	0.0	108.40	15.00
0.080	3155.	2947.0	0.9	-0.1	0.0	177.79	15.00

B04



SECNO	Q	CMSL	DIFMSP	DIFMSX	DIFKMS	TOPMID	XLCH
0.090	970.	2945.1	0.0	-0.0	0.0	27.65	30.00
0.090	1670.	2946.7	1.7	0.9	0.0	104.73	30.00
0.090	2050.	2947.3	0.6	1.2	0.0	106.21	30.00
0.090	3155.	2948.4	1.2	1.3	0.0	109.29	30.00
0.150	960.	2949.4	0.0	4.4	0.0	24.67	210.00
0.150	1660.	2951.0	1.5	4.3	0.0	28.32	210.00
0.150	2035.	2951.7	0.7	4.4	0.0	31.24	210.00
0.150	3135.	2953.3	1.6	4.8	0.0	94.37	210.00
0.150	960.	2950.2	0.0	0.8	0.0	25.43	60.00
0.150	1660.	2952.2	2.0	1.3	0.0	32.20	60.00
0.150	2035.	2953.1	0.9	1.5	0.0	49.54	60.00
0.150	3135.	2955.6	2.4	2.3	0.0	144.78	60.00
0.150	960.	2954.0	0.0	3.8	0.0	119.25	12.00
0.150	1660.	2954.8	0.8	2.6	0.0	132.52	12.00
0.150	2035.	2955.1	0.3	2.0	0.0	137.43	12.00
0.150	3135.	2955.8	0.7	0.3	0.0	149.82	12.00
0.150	960.	2954.1	0.0	0.0	0.0	119.69	15.00
0.150	1660.	2954.9	0.8	0.1	0.0	133.37	15.00
0.150	2035.	2955.2	0.3	0.1	0.0	138.77	15.00
0.150	3135.	2956.0	0.8	0.2	0.0	152.44	15.00
0.300	950.	3005.9	0.0	51.8	0.0	105.14	895.00
0.300	1640.	3007.2	1.4	52.3	0.0	132.46	895.00
0.300	2010.	3007.7	0.5	52.5	0.0	139.27	895.00
0.300	3095.	3008.9	1.1	52.9	0.0	154.49	895.00
0.300	950.	3007.2	0.0	1.3	0.0	131.93	40.00
0.300	1640.	3008.5	1.3	1.2	0.0	148.94	40.00
0.300	2010.	3009.0	0.5	1.2	0.0	155.74	40.00
0.300	3095.	3010.2	1.3	1.4	0.0	172.47	40.00
0.300	950.	3007.2	0.0	0.0	0.0	132.14	12.00
0.300	1640.	3008.5	1.3	0.0	0.0	149.12	12.00
0.300	2010.	3009.0	0.5	0.0	0.0	155.93	12.00
0.300	3095.	3010.2	1.3	0.0	0.0	172.72	12.00
0.300	950.	3007.3	0.0	0.1	0.0	132.83	10.00
0.300	1640.	3008.5	1.3	0.1	0.0	149.91	10.00
0.300	2010.	3009.1	0.5	0.1	0.0	156.78	10.00
0.300	3095.	3010.3	1.3	0.1	0.0	173.69	10.00
0.320	945.	3007.9	0.0	0.7	0.0	141.55	100.00
0.320	1635.	3009.3	1.4	0.7	0.0	159.83	100.00
0.320	2005.	3009.9	0.6	0.8	0.0	167.49	100.00
0.320	3085.	3011.2	1.4	0.9	0.0	215.17	100.00
0.370	945.	3021.2	0.0	13.3	0.0	109.43	250.00
0.370	1630.	3022.6	1.4	13.4	0.0	135.16	250.00
0.370	1995.	3023.1	0.4	13.2	0.0	140.98	250.00
0.370	3075.	3023.9	0.9	12.7	0.0	152.72	250.00

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## SUMMARY OF ERRORS

CAUTION	SECNO=	0.010	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.010	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.010	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.010	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.020	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.020	PROFILE= 1	
				PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.020	PROFILE= 1	
				20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.020	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.020	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.020	PROFILE= 3	
				PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.020	PROFILE= 3	
				20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.020	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.020	PROFILE= 4	
				PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.020	PROFILE= 4	
				20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.080	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.080	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.080	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.080	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.090	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.090	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.090	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.150	PROFILE= 1	HYDRAULIC JUMP D.S.
CAUTION	SECNO=	0.300	PROFILE= 1	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.300	PROFILE= 1	
				PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.300	PROFILE= 1	
				20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.300	PROFILE= 2	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.300	PROFILE= 2	
				PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.300	PROFILE= 2	
				20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.300	PROFILE= 3	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.300	PROFILE= 3	
				PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.300	PROFILE= 3	
				20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.300	PROFILE= 4	CRITICAL DEPTH ASSUMED
CAUTION	SECNO=	0.300	PROFILE= 4	
				PROBABLE MINIMUM SPECIFIC ENERGY
CAUTION	SECNO=	0.300	PROFILE= 4	
				20 TRIALS ATTEMPTED TO BALANCE WSEL
CAUTION	SECNO=	0.300	PROFILE= 4	HYDRAULIC JUMP D.S.
CAUTION	SECNO=	0.370	PROFILE= 1	CRITICAL DEPTH ASSUMED

D04

CAUTION SECNO= 0.370 PROFILE= 1  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.370 PROFILE= 1  
20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 0.370 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.370 PROFILE= 2  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.370 PROFILE= 2  
20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 0.370 PROFILE= 3 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.370 PROFILE= 3  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.370 PROFILE= 3  
20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 0.370 PROFILE= 4 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.370 PROFILE= 4  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.370 PROFILE= 4  
20 TRIALS ATTEMPTED TO BALANCE WSEL

E04

HANEY CREEK

E04

## HANEY CREEK

## YANCEY CO NC FEMA STUDY

500 YR FLOOD

100 YR FLOOD

50 YR FLOOD

10 YR FLOOD

MILE	Q	ELEV	Q	ELEV	Q	ELEV	Q	ELEV
0.010	3170.	2935.0	2065.	2933.8	1680.	2933.0	975.	2931.0
0.010	3170.	2936.7	2065.	2935.7	1680.	2935.1	975.	2932.7
0.020	3170.	2938.7	2065.	2937.5	1680.	2936.7	975.	2934.7
0.080	3155.	2946.1	2050.	2945.2	1670.	2944.7	970.	2942.6
0.080	3155.	2947.0	2050.	2946.1	1670.	2945.8	970.	2945.1
0.090	3155.	2948.4	2050.	2947.3	1670.	2946.7	970.	2945.1
0.150	3135.	2953.3	2035.	2951.7	1660.	2951.0	960.	2949.4
0.150	3135.	2956.0	2035.	2955.2	1660.	2954.9	960.	2954.1
0.300	3095.	3008.9	2010.	3007.7	1640.	3007.2	950.	3005.9
0.300	3095.	3010.3	2010.	3009.1	1640.	3008.5	950.	3007.3
0.320	3085.	3011.2	2005.	3009.9	1635.	3009.3	945.	3007.9
0.370	3075.	3023.9	1995.	3023.1	1630.	3022.6	945.	3021.2

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 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979  
 ERROR CORR - 01,02,03  
 MODIFICATION - 50,51,52,53,54  
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T1	YANCEY CO NC FEMA STUDY										5
T2	100 YR FLOOD										10
T3	HANEY CREEK										15
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	4.	0.	0.	0.02618	0.	0.0	0.	0.0	0.0	20
J2	NPROF	IPLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	0.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	25
J3	VARIABLE CODES FOR SUMMARY PRINTOUT										
	110.00	0.0	200.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
QT	5.	975.	1680.	2065.	3170.	2065.	0.	0.	0.	0.	35
NC	0.150	0.150	0.055	0.1	0.5						40
ET	0.	0.0	0.0	0.0	0.0	7.11	350.00	390.00	0.0	0.0	45
X1	0.01	12.	366.	384.	0.	0.	0.	0.0	0.0	0.	50
GR	2946.0	200.	2933.3	277.	2931.6	340.	2932.4	345.	2928.7	366.	55
GR	2925.7	372.	2925.0	377.	2928.2	384.	2928.9	390.	2932.3	400.	60
GR	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	0.0	0.	65
NC	0.120	0.120	0.040	0.0	0.0						70
ET	0.	0.0	0.0	0.0	0.0	7.11	350.00	390.00	0.0	0.0	75
X1	0.01	13.	355.	384.	40.	40.	40.	0.0	0.0	0.	80
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2932.6	2932.3		85
GR	2946.0	200.	2933.3	277.	2931.6	340.	2932.4	345.	2930.6	355.	90
GR	2928.7	366.	2925.7	372.	2925.0	377.	2928.2	384.	2928.6	390.	95
GR	2932.3	400.	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	100
ET	0.	0.0	0.0	0.0	0.0	7.11	350.00	390.00	0.0	0.0	105
X1	0.01	17.	355.	384.	1.	1.	1.	0.0	0.0	0.	110
BT	4.0	355.0	2934.6	0.0	355.0	2934.6	2933.7	384.0	2932.8	2931.5	115
BT	384.0	2932.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	120
GR	2946.0	200.	2933.3	277.	2933.1	286.	2934.8	328.	2934.6	355.	125
GR	2931.5	355.	2930.5	360.	2933.4	360.	2933.3	362.	2925.5	362.	130
GR	2925.0	375.	2925.3	381.	2926.3	384.	2932.8	384.	2933.0	408.	135
GR	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	0.0	0.	140
ET	0.	0.0	0.0	0.0	0.0	7.11	350.00	390.00	0.0	0.0	145
X1	0.01	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	150
X2	0.	0.0	0.	0.0	0.0	0.0	1.	0.0	0.0	0.	155

B01											
ET	0.	0.0	0.0	0.0	0.0	7.11	350.00	390.00	0.0	0.0	160
X1	0.01	13.	355.	384.	1.	1.	1.	0.0	0.0	0.	165
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2933.1	2932.8	0.	170
GR	2946.0	200.	2933.3	277.	2931.6	340.	2932.4	345.	2930.6	355.	175
GR	2928.7	366.	2925.7	372.	2925.0	377.	2928.2	384.	2928.6	390.	180
GR	2932.3	400.	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	185
ET	0.	0.0	0.0	0.0	0.0	7.11	350.00	390.00	0.0	0.0	190
X1	0.01	12.	366.	384.	10.	10.	10.	0.0	0.0	0.	195
GR	2946.0	200.	2933.3	277.	2931.6	340.	2932.4	345.	2928.7	366.	200
GR	2925.7	372.	2925.0	377.	2928.2	384.	2928.9	390.	2932.3	400.	205
GR	2933.7	416.	2946.0	467.	0.0	0.	0.0	0.	0.0	0.	210
NC	0.150	0.150	0.055	0.0	0.8	0.	0.0	0.	0.0	0.	215
ET	0.	0.0	0.0	0.0	0.0	7.11	350.00	390.00	0.0	0.0	220
X1	0.02	0.	0.	0.	50.	50.	50.	0.0	3.70	0.	225
QT	5.	970.	1670.	2050.	3155.	2050.	0.	0.	0.	0.	230
NC	0.100	0.150	0.050	0.0	0.0	0.	0.0	0.	0.0	0.	235
ET	0.	0.0	0.0	0.0	0.0	7.11	250.00	330.00	0.0	0.0	240
X1	0.08	18.	298.	322.	270.	270.	270.	0.0	0.0	0.	245
GR	2957.5	200.	2943.7	222.	2943.5	270.	2943.0	287.	2943.5	298.	250
GR	2937.5	307.	2937.2	310.	2937.1	314.	2937.0	317.	2941.9	322.	255
GR	2944.6	387.	2951.3	410.	2951.4	417.	2949.2	430.	2949.5	460.	260
GR	2955.7	500.	2956.3	583.	2957.4	589.	0.0	0.	0.0	0.	265
NC	0.0	0.0	0.040	0.0	0.5	0.	0.0	0.	0.0	0.	270
ET	0.	0.0	0.0	0.0	0.0	7.11	250.00	330.00	0.0	0.0	275
X1	0.08	0.	0.	0.	60.	60.	60.	0.0	0.0	0.	280
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2941.5	2943.8	0.	285
SB	1.25	1.60	3.00	0.	4.00	0.01	22.00	0.0	2937.0	2937.0	290
ET	0.	0.0	0.0	0.0	0.0	7.11	250.00	330.00	0.0	0.0	295
X1	0.08	0.	0.	0.	25.	25.	25.	0.0	0.0	0.	300
X2	0.	0.0	1.	2942.5	2942.0	0.0	0.	0.0	0.0	0.	305
X3	10.	0.0	0.0	0.	0.0	0.	0.0	2942.0	2944.3	0.	310
BT	15.0	200.0	2957.5	0.0	222.0	2943.7	0.0	270.0	2943.5	0.0	315
BT	287.0	2943.0	0.0	298.0	2943.5	0.0	300.0	2942.0	0.0	314.0	320
BT	2943.9	0.0	402.0	2948.6	0.0	410.0	2951.3	0.0	417.0	2951.4	325
BT	0.0	430.0	2949.2	0.0	460.0	2949.5	0.0	500.0	2955.7	0.0	330
BT	583.0	2956.3	0.0	589.0	2957.4	0.0	0.0	0.0	0.0	0.0	335
ET	0.	0.0	0.0	0.0	0.0	7.11	250.00	330.00	0.0	0.0	340
X1	0.08	19.	298.	327.	15.	15.	15.	0.0	0.0	0.	345
GR	2957.5	200.	2943.7	222.	2943.5	270.	2943.0	287.	2943.5	298.	350
GR	2937.5	307.	2937.2	310.	2937.1	314.	2937.0	317.	2946.5	327.	355
GR	2946.5	343.	2946.5	393.	2951.3	410.	2951.4	417.	2949.2	430.	360
GR	2949.5	460.	2955.7	500.	2956.3	583.	2957.4	589.	0.0	0.	365
NC	0.150	0.150	0.060	0.0	0.8	0.	0.0	0.	0.0	0.	370
ET	0.	0.0	0.0	0.0	0.0	7.11	250.00	330.00	0.0	0.0	375

## C01

X1	0.09	0.	0.	0.	30.	30.	30.	0.0	2.00	0.	380
QT	5.	960.	1660.	2035.	3135.	2035.	0.	0.	0.	0.	385
NC	0.080	0.130	0.055	0.0	0.8	0.0	0.0	0.0	0.0	0.0	390
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	390.00	0.0	0.0	395

X1	0.15	14.	312.	344.	210.	210.	210.	0.0	-0.50	0.	400
GR	2964.5	200.	2963.7	202.	2962.7	293.	2952.5	312.	2941.5	325.	405
GR	2941.5	330.	2953.6	344.	2953.5	367.	2953.8	377.	2953.8	397.	410
GR	2952.1	399.	2958.0	488.	2958.0	555.	2964.5	572.	0.0	0.	415
NC	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	420
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	390.00	0.0	0.0	425

X1	0.15	14.	312.	344.	60.	60.	60.	0.0	0.0	0.	430
GR	2964.5	200.	2963.7	202.	2962.7	293.	2952.5	312.	2941.5	325.	435
GR	2941.5	330.	2953.6	344.	2953.5	367.	2953.8	377.	2953.8	397.	440
GR	2952.1	399.	2958.0	488.	2958.0	555.	2964.5	572.	0.0	0.	445
SB	1.25	1.60	3.00	0.	5.00	0.30	28.00	0.0	2941.5	2941.5	450
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	390.00	0.0	0.0	455

X1	0.15	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	460
X2	0.	0.0	1.	2947.5	2951.3	0.0	0.	0.0	0.0	0.	465
BT	14.0	200.0	2964.5	0.0	202.0	2963.7	0.0	293.0	2962.7	0.0	470
BT	313.0	2951.7	0.0	326.0	2951.3	0.0	342.0	2952.0	0.0	344.0	475
BT	2953.6	0.0	367.0	2953.5	0.0	377.0	2953.8	0.0	397.0	2953.8	480
BT	0.0	399.0	2952.1	0.0	488.0	2958.0	0.0	555.0	2958.0	0.0	485
BT	572.0	2964.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	490
NC	0.120	0.120	0.050	0.0	0.0	0.0	0.0	0.0	0.0	0.0	495
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	390.00	0.0	0.0	500

X1	0.15	14.	312.	344.	15.	15.	15.	0.0	0.0	0.	505
GR	2964.5	200.	2963.7	202.	2962.7	293.	2952.5	312.	2941.5	325.	510
GR	2941.5	330.	2953.6	344.	2953.5	367.	2953.8	377.	2953.8	397.	515
GR	2952.1	399.	2958.0	488.	2958.0	555.	2964.5	572.	0.0	0.	520
QT	5.	950.	1640.	2010.	3095.	2010.	0.	0.	0.	0.	525
NC	0.150	0.150	0.055	0.0	0.8	0.0	0.0	0.0	0.0	0.0	530
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	370.00	0.0	0.0	535

X1	0.30	14.	320.	335.	895.	895.	895.	0.0	0.0	0.	540
GR	3020.5	200.	3017.5	213.	3010.9	266.	3010.5	293.	3005.8	298.	545
GR	3005.4	316.	3002.0	320.	2999.3	323.	2999.3	327.	3003.3	335.	550
GR	3006.5	420.	3013.5	506.	3017.5	537.	3020.5	577.	0.0	0.	555
NC	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	560
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	370.00	0.0	0.0	565

X1	0.30	0.	0.	0.	40.	40.	40.	0.0	0.0	0.	570
X3	10.	0.0	0.0	0.	0.0	0.	0.0	3004.8	3004.3	0.	575
SB	1.25	1.60	3.00	0.	15.00	0.30	72.00	0.0	2999.3	2999.3	580
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	370.00	0.0	0.0	585

X1	0.30	0.	0.	0.	12.	12.	12.	0.0	0.0	0.	590
X2	0.	0.0	1.	3004.2	3004.8	0.0	0.	0.0	0.0	0.	595
X3	10.	0.0	0.0	0.	0.0	0.	0.0	3005.3	3004.8	0.	600
BT	12.0	200.0	3020.5	0.0	213.0	3017.5	0.0	266.0	3010.9	0.0	605

## D01

D01

BT	293.0	3010.5	0.0	298.0	3005.8	0.0	316.0	3005.4	0.0	345.0	610
BT	3005.0	0.0	370.0	3004.8	0.0	420.0	3006.5	0.0	506.0	3013.5	615
BT	0.0	537.0	3017.5	0.0	577.0	3020.5	0.0	0.0	0.0	0.0	620
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	370.00	0.0	0.0	625

X1	0.30	14.	320.	335.	10.	10.	10.	0.0	0.0	0.	630
GR	3020.5	200.	3017.5	213.	3010.9	266.	3010.5	293.	3005.8	298.	635
GR	3005.4	316.	3002.0	320.	3000.0	327.	3000.8	331.	3003.3	335.	640
GR	3006.5	420.	3013.5	506.	3017.5	537.	3020.5	577.	0.0	0.	645
QT	5.	945.	1635.	2005.	3085.	2005.	0.	0.	0.	0.	650
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	370.00	0.0	0.0	655

X1	0.32	0.	0.	0.	100.	100.	100.	0.0	0.0	0.	660
QT	5.	945.	1630.	1995.	3075.	1995.	0.	0.	0.	0.	665
ET	0.	0.0	0.0	0.0	0.0	7.11	310.00	370.00	0.0	0.0	670

X1	0.37	0.	0.	0.	250.	250.	250.	0.0	15.20	0.	675
EJ											680



E01

\*PROF 1

CCHV= 0.100 CEHV= 0.500

\*SECNO .010

2096 WSEL NOT GIVEN,AVG OF MAX,MIN USED

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID		VOL
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
3720 CRITICAL DEPTH ASSUMED									
0.01	2065.	314.	1546.	205.	1.62	0	142.		
2933.78	2933.78	161.	132.	76.	0.50	12	2928.70		
8.78	0.0	1.94	11.72	2.71	0.0	2935.40	2928.20		
0.014656	0.0	0.150	0.055	0.150	0.0	0.0	274.08		
	2925.00	0.	0.	0.	101.	41.	416.34		0.

\*SECNO .010

3301 HV CHANGED MORE THAN HVINS

0.01	2065.	291.	1561.	213.	0.63	3	156.		
2935.09	0.0	227.	215.	124.	-0.99	0	2930.60		
10.09	0.0	1.28	7.25	1.72	0.22	2935.72	2928.20		
0.002830	0.039	0.120	0.040	0.120	0.10	-0.00	266.17		
	2925.00	40.	40.	40.	103.	52.	421.75		0.

\*SECNO .010

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

0.01	2065.	134.	1748.	183.	0.99	2	154.		
2934.91	0.0	70.	203.	64.	0.37	0	2934.60		
9.91	0.0	1.92	8.63	2.86	0.01	2935.91	2932.80		
0.023535	0.038	0.120	0.040	0.120	0.18	-31.70	267.21		
	2925.00	1.	1.	1.	102.	52.	421.03		0.

\*SECNO .010

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE,NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

0.01	2065.	240.	1593.	232.	0.65	3	160.		
2935.51	0.0	123.	220.	87.	-0.35	0	2934.60		
10.51	0.0	1.95	7.25	2.68	0.22	2936.16	2932.80		
0.014889	0.038	0.120	0.040	0.120	0.03	-31.70	263.62		
	2925.00	12.	12.	12.	106.	54.	423.49		1.

\*SECNO .010

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC		

F01

DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA

F01

DEPTH SLOPE	WSELK WTN ELMIN	VLOB XNL XLOBL	VCH XNCH XLCH	VROB XNR XLOBR	HL OLOSS WSDL	EG CORAR WSDR	LEFT/RIGHT SSTA ENDST	VOL
0.01	2065.	345.	1494.	226.	0.47	2	162.	
2935.72	0.0	284.	234.	149.	-0.18	0	2930.60	
10.72	0.0	1.21	6.40	1.52	0.00	2936.18	2928.20	
0.001974	0.037	0.120	0.040	0.120	0.02	-0.00	262.34	
	2925.00	1.	1.	1.	107.	55.	424.37	1.

\*SECNO .010

0.01	2065.	514.	1305.	246.	0.62	2	161.	
2935.66	0.0	345.	166.	144.	0.15	0	2928.70	
10.66	0.0	1.49	7.87	1.71	0.02	2936.28	2928.20	
0.002580	0.037	0.120	0.040	0.120	0.08	-0.00	262.68	
	2925.00	10.	10.	10.	112.	49.	424.13	1.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .020

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK 100 YR FLOOD 07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.02	2065.	315.	1544.	206.	1.61	20	142.	
2937.49	2937.49	162.	132.	76.	0.99	12	2932.40	
8.79	0.0	1.94	11.69	2.70	0.26	2939.10	2931.90	
0.014560	0.044	0.150	0.055	0.150	0.79	0.0	274.03	
	2928.70	50.	50.	50.	101.	41.	416.37	1.

3685 20 TRIALS ATTEMPTED WSEL,CWSEL  
3693 PROBABLE MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

\*SECNO .080

HANEY CREEK 100 YR FLOOD 07/03/81

MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.08	2050.	316.	1517.	217.	1.17	4	170.	
2945.22	2945.22	135.	152.	129.	-0.44	10	2943.50	
8.22	0.0	2.34	9.99	1.68	3.53	2946.39	2941.90	
0.011773	0.048	0.100	0.050	0.150	0.04	-0.00	219.57	
	2937.00	270.	270.	270.	90.	79.	389.14	4.

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

G01

CCHV= 0.100 CEHV= 0.500  
\*SECNO .080

601

CCHV= 0.100 CEHV= 0.500  
\*SECNO .080

\*\*\* GR CARDS REPEATED

0.08	2050.	375.	1432.	243.	0.76	2	174.
2946.07	0.0	202.	172.	187.	-0.40	0	2943.50
9.07	0.0	1.85	8.31	1.30	0.41	2946.84	2941.90
0.004404	0.047	0.100	0.040	0.150	0.04	-0.00	218.21
	2937.00	60.	60.	60.	92.	82.	392.07

4.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	4.00	0.01	22.00	0.0
	ELCHU	ELCHD						
	2937.00	2937.00						

\*SECNO .080

\*\*\* GR CARDS REPEATED

PRESS FLOW BECAUSE EGLWC OF HANEY CREEK 2946.84 EXCEEDS 1.5 DEPTH 100 YR FLOOD 07/03/81

MILE	Q	QLOB	QCH	QROB	HV	TRIAL	TOPWID
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	SSTA
	ELMIN	XLOBI	XLCH	XLOBR	WSDL	WSDR	ENDST
							VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
3161.80	2946.84	0.01	1917.	124.	22.	22.	2942.50
ELTRD							
2942.00							

0.08	2050.	382.	1421.	247.	0.73	3	174.
2946.14	0.0	208.	174.	192.	-0.03	0	2943.50
9.14	0.0	1.84	8.18	1.29	0.03	2946.87	2941.90
0.004212	0.046	0.100	0.040	0.150	0.0	-0.00	218.11
	2937.00	25.	25.	25.	92.	82.	392.28

5.

\*SECNO .080

0.08	2050.	441.	1609.	0.	0.96	2	108.
2946.10	0.0	204.	183.	0.	0.22	0	2943.50
9.10	0.0	2.16	8.78	0.0	0.07	2947.05	2946.50
0.005931	0.046	0.100	0.040	0.150	0.11	-0.00	218.18
	2937.00	15.	15.	15.	94.	14.	326.58

5.

CCHV= 0.100 CEHV= 0.800  
\*SECNO .090

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HD1

HD1

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID		VOL
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			
7185 MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.09	2050.	311.	1739.	0.	1.57	2	106.		
2947.27	2947.27	139.	160.	0.	0.61	12	2945.50		
8.27	0.0	2.24	10.88	0.0	0.31	2948.84	2948.50		
0.023371	0.047	0.150	0.060	0.150	0.49	-0.00	219.49		
	2939.00	30.	30.	30.	93.	13.	325.71		5.

CCHV= 0.100 CEHV= 0.800  
 \*SECNO .150

3265 DIVIDED FLOW

0.15	2035.	0.	2035.	0.	1.84	2	31.		
2951.68	0.0	0.	187.	0.	0.27	0	2952.00		
10.68	0.0	0.0	10.90	0.02	4.46	2953.52	2953.10		
0.019368	0.049	0.080	0.055	0.130	0.22	-0.00	312.38		
	2941.00	210.	210.	210.	16.	72.	400.18		6.

CCHV= 0.100 CEHV= 0.500  
 \*SECNO .150

3265 DIVIDED FLOW

0.15	2035.	0.	2027.	7.	1.36	2	50.		
2953.14	0.0	0.	216.	9.	-0.49	0	2952.50		
11.64	0.0	0.90	9.37	0.82	0.93	2954.50	2953.60		
0.012596	0.050	0.080	0.055	0.130	0.05	-0.00	310.81		
	2941.50	60.	60.	60.	17.	87.	414.66		7.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.30	28.00	0.0
	ELCHU	ELCHD						
	2941.50	2941.50						

\*SECNO .150

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID	
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA	
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR		

I01

ELMIN XLOBL XLCH XLOBR WSDL WSDR ENDST VOL

PRESSURE AND WEIR FLOW

EGPRS 3084.37	EGLWC 2954.87	H3 0.37	QWEIR 1748.	QPR 288.	BAREA 28.	TAREA 28.	ELLC 2947.50	
ELTRD 2951.30								
0.15 2955.12	2035. 0.0	9. 6.	1873. 280.	153. 150.	0.64 -0.72	3 0	137. 2952.50	
13.62 0.004677	0.0 0.050	1.40 0.080	6.70 0.055	1.02 0.130	1.27 0.0	2955.76 -0.00	2953.60 307.12	7.
	2941.50	12.	12.	12.	21.	117.	444.55	
*SECNO .150								
0.15 2955.20	2035. 0.0	6. 7.	1869. 282.	161. 158.	0.63 -0.02	2 0	139. 2952.50	
13.70 0.003735	0.0 0.049	0.85 0.120	6.62 0.050	1.01 0.120	0.06 0.00	2955.83 -0.00	2953.60 306.97	7.
	2941.50	15.	15.	15.	21.	118.	445.74	

CCHV= 0.100 CEHV= 0.800  
\*SECNO .300

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		100 YR FLOOD			07/03/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL  
3693 PROBABLE MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

0.30 3007.74	2010. 3007.74	127. 57.	1259. 107.	625. 251.	1.39 0.77	20 12	139. 3002.00	
8.44 0.016518	0.0 0.052	2.24 0.150	11.81 0.055	2.49 0.150	6.11 0.61	3009.13 -0.00	3003.30 295.94	16.
	2999.30	895.	895.	895.	32.	108.	435.21	

CCHV= 0.100 CEHV= 0.500  
\*SECNO .300

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

0.30 3008.97	2010. 0.0	163. 87.	1076. 125.	771. 384.	0.64 -0.75	3 0	156. 3002.00	
9.67 0.007074	0.0 0.052	1.87 0.150	8.60 0.055	2.01 0.150	0.41 0.07	3009.62 -0.00	3003.30 294.63	16.
	2999.30	40.	40.	40.	33.	123.	450.37	

J01

SPECIAL BRIDGE

SB	HK	XKOR	COFq	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.30	72.00	0.0
	ELCHU	ELCHD						
	2999.30	2999.30						

\*SECNO .300

\*\*\* GR CARDS REPEATED  
6870 D.S. ENERGY OF 3009.62 HIGHER THAN COMPUTED ENERGY OF 3009.29  
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC	
3028.34	3009.66	0.04	1758.	255.	72.	72.	3004.20	
ELTRD								
3004.80								
0.30	2010.	163.	1074.	773.	0.64	2	156.	
3008.98	0.0	88.	125.	385.	-0.01	0	3002.00	
9.68	0.0	1.87	8.57	2.00	0.0	3009.62	3003.30	
0.007009	0.052	0.150	0.055	0.150	0.0	-0.00	294.61	
	2999.30	12.	12.	12.	33.	123.	450.54	16.

\*SECNO .300

HANEY CREEK		100 YR FLOOD			07/03/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL
0.30	2010.	170.	1035.	805.	0.64	0	157.	
3009.05	0.0	89.	119.	393.	-0.00	0	3002.00	
9.05	0.0	1.91	8.70	2.05	0.07	3009.69	3003.30	
0.007190	0.052	0.150	0.055	0.150	0.00	-0.00	294.54	
	3000.00	10.	10.	10.	33.	124.	451.33	16.

\*SECNO .320

\*\*\* GR CARDS REPEATED

0.32	2005.	185.	952.	868.	0.41	2	167.	
3009.85	0.0	110.	131.	490.	-0.22	0	3002.00	
9.85	0.0	1.68	7.27	1.77	0.55	3010.27	3003.30	
0.004409	0.052	0.150	0.055	0.150	0.02	-0.00	293.69	
	3000.00	100.	100.	100.	34.	134.	461.18	18.

\*SECNO .370

\*\*\* GR CARDS REPEATED  
3301 HV CHANGED MORE THAN HVINS

K01

HANEY CREEK		100 YR FLOOD			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	ENDST		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			VOL
3685 20 TRIALS ATTEMPTED WSEL,CWSEL									
3693 PROBABLE MINIMUM SPECIFIC ENERGY									
3720 CRITICAL DEPTH ASSUMED									
0.37	1995.	137.	1189.	669.	1.32	20	141.		
3023.07	3023.07	60.	101.	264.	0.90	14	3017.20		
7.87	0.0	2.29	11.75	2.54	1.90	3024.38	3018.50		
0.016277	0.053	0.150	0.055	0.150	0.45	-0.00	295.80		
	3015.20	250.	250.	250.	32.	109.	436.78		21.

L01

THIS RUN EXECUTED 07/03/81 8:38:36

\*\*\*\*\*  
HEC2 RELEASE DATED NOV 76 UPDATED JULY1979  
ERROR CORR - 01,02,03  
MODIFICATION - 50,51,52,53,54  
\*\*\*\*\*

T1	YANCEY CO NC FEMA STUDY										685
T2	100 YR FLOODWAY										690
T3	HANEY CREEK										695
J1	ICHECK	INQ	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FQ	
	0.	6.	0.	0.	0.0	0.	0.0	0.	2934.78	0.0	700
J2	NPROF	IPLLOT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE	
	15.	0.	-1.	0.	0.	0.0	0.0	0.	0.	0.	705

M01



\*PROF 2

CCHV= 0.100 CEHV= 0.500

\*SECNO .010

HANEY CREEK			100 YR FLOODWAY		07/03/81				
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID		
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT		
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA		
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST		VOL

3470 ENCROACHMENT STATIONS=	350.0	390.0	TYPE=	1	TARGET=	40.000		
0.01	2065.	203.	1773.	89.	1.88	0	40.	
2934.78	0.0	75.	150.	37.	0.50	0	2928.70	
9.78	2933.78	2.72	11.83	2.38	0.0	2936.66	2928.20	
0.012585	0.0	0.150	0.055	0.150	0.0	-0.00	350.00	
	2925.00	0.	0.	0.	25.	15.	390.00	0.

\*SECNO .010

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	350.0	390.0	TYPE=	1	TARGET=	40.000		
0.01	2065.	32.	1963.	70.	0.98	3	40.	
2935.99	0.0	25.	241.	46.	-0.90	0	2930.60	
10.99	2935.09	1.29	8.13	1.55	0.22	2936.97	2928.20	
0.003049	0.039	0.120	0.040	0.120	0.09	-0.00	350.00	
	2925.00	40.	40.	40.	20.	20.	390.00	0.

\*SECNO .010

3700. BRIDGE STENCL= 350.00 STENCR= 390.00

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

3470 ENCROACHMENT STATIONS=	350.0	390.0	TYPE=	1	TARGET=	40.000		
0.01	2065.	12.	2001.	52.	1.12	2	40.	
2935.92	0.0	7.	232.	19.	0.15	0	2934.60	
10.92	2934.91	1.78	8.63	2.80	0.01	2937.05	2932.80	
0.019664	0.038	0.120	0.040	0.120	0.07	-31.70	350.00	
	2925.00	1.	1.	1.	20.	20.	390.00	0.

\*SECNO .010

\*\*\* GR CARDS REPEATED

3370 NORMAL BRIDGE, NRD= 4 MIN ELTRD= 2932.80 MAX ELLC= 2933.70

3470 ENCROACHMENT STATIONS=	350.0	390.0	TYPE=	1	TARGET=	40.000		
0.01	2065.	15.	1994.	56.	1.03	2	40.	
2936.25	0.0	8.	241.	21.	-0.10	0	2934.60	
11.25	2935.51	1.86	8.26	2.73	0.22	2937.28	2932.80	
0.017070	0.038	0.120	0.040	0.120	0.01	-31.70	350.00	

A02

2925.00 12. 12. 12. 20. 20. 390.00 0.

\*SECNO .010

HANEY CREEK		100 YR FLOODWAY			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			

3470 ENCROACHMENT STATIONS=		350.0	390.0	TYPE=	1	TARGET=	40.000	
0.01	2065.	33.	1963.	70.	0.89	2	40.	
2936.41	0.0	27.	254.	48.	-0.14	0	2930.60	
11.41	2935.72	1.22	7.74	1.45	0.01	2937.30	2928.20	
0.002587	0.037	0.120	0.040	0.120	0.01	-0.00	350.00	
	2925.00	1.	1.	1.	20.	20.	390.00	0.

\*SECNO .010

3470 ENCROACHMENT STATIONS=		350.0	390.0	TYPE=	1	TARGET=	40.000	
0.01	2065.	211.	1772.	81.	1.37	2	40.	
2936.20	0.0	97.	176.	46.	0.48	0	2928.70	
11.20	2935.66	2.17	10.10	1.77	0.03	2937.57	2928.20	
0.003934	0.037	0.120	0.040	0.120	0.24	-0.00	350.00	
	2925.00	10.	10.	10.	25.	15.	390.00	0.

CCHV= 0.100 CEHV= 0.800

\*SECNO .020

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		100 YR FLOODWAY			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	BANK ELEV		
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	LEFT/RIGHT		
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	SSTA		
SLOPE	WTN	XLN	XNCH	XNR	OLOSS	CORAR	ENDST		VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR			

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=		350.0	390.0	TYPE=	1	TARGET=	40.000	
0.02	2065.	163.	1814.	88.	2.93	2	40.	
2937.05	2937.05	52.	124.	29.	1.56	19	2932.40	
8.35	2937.49	3.14	14.61	3.05	0.40	2939.98	2931.90	
0.024689	0.044	0.150	0.055	0.150	1.25	-0.00	350.00	
	2928.70	50.	50.	50.	25.	15.	390.00	1.

\*SECNO .080

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK 100 YR FLOODWAY 07/03/81

B02

MILE ELEV DEPTH SLOPE	Q CRIWS WSELK WTN ELMIN	QLOB ALOB VLOB XNL XLOBL	QCH ACH VCH XNCH XLCH	QROB AROB VROB XNR XLOBR	HV DHV HL OLOSS WSDL	ITRIAL IDC EG CORAR WSDR	TOPWID BANK ELEV LEFT/RIGHT SSTA ENDST	VOL
7185 MINIMUM SPECIFIC ENERGY 3720 CRITICAL DEPTH ASSUMED								
3470 ENCROACHMENT STATIONS= 250.0 330.0 TYPE= 1 TARGET= 80.000								
0.08	2050.	239.	1757.	54.	1.83	5	80.	
2945.17	2945.17	87.	151.	25.	-1.10	8	2943.50	
8.17	2945.22	2.76	11.66	2.18	5.34	2947.00	2941.90	
0.016198	0.048	0.100	0.050	0.150	0.11	-0.00	250.00	
	2937.00	270.	270.	270.	60.	20.	330.00	2.

CCHV= 0.100 CEHV= 0.500  
\*SECNO .080

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 250.0 330.0 TYPE= 1 TARGET= 80.000								
0.08	2050.	324.	1675.	50.	1.09	3	80.	
2946.48	0.0	149.	182.	35.	-0.74	0	2943.50	
9.48	2946.07	2.17	9.20	1.42	0.50	2947.57	2941.90	
0.005017	0.047	0.100	0.040	0.150	0.07	-0.00	250.00	
	2937.00	60.	60.	60.	60.	20.	330.00	3.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	4.00	0.01	22.00	0.0
	ELCHU	ELCHD						
	2937.00	2937.00						

\*SECNO .080  
3700. BRIDGE STENCL= 250.00 STENCR= 330.00

\*\*\* GR CARDS REPEATED

PRESS FLOW BECAUSE EGLWC OF HANEY CREEK 2947.58 EXCEEDS 1.5 DEPTH 100 YR FLOODWAY 07/03/81

MILE ELEV DEPTH SLOPE	Q CRIWS WSELK WTN ELMIN	QLOB ALOB VLOB XNL XLOBL	QCH ACH VCH XNCH XLCH	QROB AROB VROB XNR XLOBR	HV DHV HL OLOSS WSDL	ITRIAL IDC EG CORAR WSDR	TOPWID BANK ELEV LEFT/RIGHT SSTA ENDST	VOL
--------------------------------	-------------------------------------	--------------------------------------	-----------------------------------	--------------------------------------	----------------------------------	--------------------------------------	--	-----

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
3162.21	2947.58	0.01	1903.	152.	22.	22.	2942.50
ELTRD							
2942.00							

C02

3470 ENCROACHMENT STATIONS=	250.0	330.0	TYPE=	1	TARGET=	80.000	
0.08	2050.	339.	1661.	51.	1.01	3	80.
2946.66	0.0	158.	186.	37.	-0.08	0	2943.50
9.66	2946.14	2.14	8.91	1.38	0.10	2947.67	2941.90
0.004561	0.046	0.100	0.040	0.150	0.0	-0.00	250.00
	2937.00	25.	25.	25.	60.	20.	330.00

\*SECNO .080

3470 ENCROACHMENT STATIONS=	250.0	330.0	TYPE=	1	TARGET=	80.000	
0.08	2050.	374.	1675.	0.	0.85	2	80.
2946.90	0.0	170.	206.	1.	-0.16	0	2943.50
9.90	2946.10	2.21	8.12	0.33	0.07	2947.75	2946.50
0.004415	0.046	0.100	0.040	0.150	0.02	-0.00	250.00
	2937.00	15.	15.	15.	63.	17.	330.00

CCHV= 0.100 CEHV= 0.800

\*SECNO .090

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		100 YR FLOODWAY			07/03/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRWS	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

7185 MINIMUM SPECIFIC ENERGY  
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	250.0	330.0	TYPE=	1	TARGET=	80.000	
0.09	2050.	215.	1835.	0.	1.86	2	76.
2947.24	2947.24	90.	159.	0.	1.01	12	2945.50
8.24	2947.27	2.41	11.54	0.0	0.27	2949.10	2948.50
0.026490	0.047	0.150	0.060	0.150	0.81	-0.00	250.00
	2939.00	30.	30.	30.	63.	13.	325.67

CCHV= 0.100 CEHV= 0.800

\*SECNO .150

3470 ENCROACHMENT STATIONS=	310.0	390.0	TYPE=	1	TARGET=	80.000	
0.15	2035.	0.	2035.	0.	1.72	2	30.
2951.89	0.0	0.	193.	0.	-0.14	0	2952.00
10.89	2951.68	0.0	10.52	0.0	4.50	2953.61	2953.10
0.017660	0.049	0.080	0.055	0.130	0.01	-0.00	312.12
	2941.00	210.	210.	210.	16.	15.	342.61

CCHV= 0.100 CEHV= 0.500

\*SECNO .150

D02

D02

3470 ENCROACHMENT STATIONS=	310.0	390.0	TYPE=	1	TARGET=	80.000	
0.15	2035.	0.	2035.	0.	1.36	2	33.
2953.17	0.0	0.	217.	0.	-0.36	0	2952.50
11.67	2953.14	0.92	9.36	0.0	0.88	2954.53	2953.60
0.012499	0.050	0.080	0.055	0.130	0.04	-0.00	310.75
	2941.50	60.	60.	60.	17.	16.	343.51

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	5.00	0.30	28.00	0.0
	ELCHU	ELCHD						
	2941.50	2941.50						

\*SECNO .150  
3700. BRIDGE STENCL= 310.00 STENCR= 390.00

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		100 YR FLOODWAY			07/03/81			
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	TOPWID	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	BANK ELEV	
DEPTH	WSELK	VLOB	VCH	VROB	HL	EG	LEFT/RIGHT	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	CORAR	SSTA	
	ELMIN	XLOBL	XLCH	XLOBR	WSDL	WSDR	ENDST	VOL

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
3084.41	2954.90	0.37	1714.	324.	28.	28.	2947.50
ELTRD							
2951.30							

3470 ENCROACHMENT STATIONS=	310.0	390.0	TYPE=	1	TARGET=	80.000	
0.15	2035.	7.	1905.	123.	0.57	2	80.
2955.93	0.0	6.	306.	105.	-0.79	0	2952.50
14.43	2955.12	1.29	6.23	1.16	1.96	2956.49	2953.60
0.003597	0.050	0.080	0.055	0.130	0.0	-0.00	310.00
	2941.50	12.	12.	12.	18.	62.	390.00

\*SECNO .150

3470 ENCROACHMENT STATIONS=	310.0	390.0	TYPE=	1	TARGET=	80.000	
0.15	2035.	5.	1906.	124.	0.56	2	80.
2955.98	0.0	6.	307.	108.	-0.00	0	2952.50
14.48	2955.20	0.78	6.21	1.15	0.05	2956.54	2953.60
0.002929	0.049	0.120	0.050	0.120	0.00	-0.00	310.00
	2941.50	15.	15.	15.	18.	62.	390.00

CCHV= 0.100 CEHV= 0.800  
\*SECNO .300

E02

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK		100 YR FLOODWAY			07/03/81		TOPWID		
MILE	Q	QLOB	QCH	QROB	HV	ITRIAL	EG	BANK ELEV	
ELEV	CRISW	ALOB	ACH	AROB	DHV	IDC	EG	LEFT/RIGHT	
DEPTH	WSELK	VLOB	VCH	VROB	HL	CORAR	EG	SSTA	
SLOPE	WTN	XNL	XNCH	XNR	OLOSS	WSDR	WSDR	ENDST	VOL
	ELMIN	XLOBL	XLCH	XLOBR	WSDL				

3685 20 TRIALS ATTEMPTED WSEL, CWSEL  
 3593 PROBABLE MINIMUM SPECIFIC ENERGY  
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=	310.0	370.0	TYPE=	1	TARGET=	60.000		
0.30	2010.	78.	1485.	447.	2.34	20	60.	
3007.64	3007.64	29.	105.	129.	1.78	14	3002.00	
8.34	3007.74	2.71	14.13	3.47	5.73	3009.98	3003.30	
0.024079	0.052	0.150	0.055	0.150	1.42	-0.00	310.00	
	2999.30	895.	895.	895.	18.	42.	370.00	12.

CCHV= 0.100 CEHV= 0.500  
 \*SECNO .300

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS=	310.0	370.0	TYPE=	1	TARGET=	60.000		
0.30	2010.	102.	1374.	534.	1.17	3	60.	
3009.49	0.0	47.	133.	194.	-1.17	0	3002.00	
10.19	3008.97	2.15	10.34	2.76	0.57	3010.67	3003.30	
0.009439	0.052	0.150	0.055	0.150	0.12	-0.00	310.00	
	2999.30	40.	40.	40.	18.	42.	370.00	12.

SPECIAL BRIDGE

SB	HK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS
	1.25	1.60	3.00	0.0	15.00	0.30	72.00	0.0
	ELCHU	ELCHD						
	2999.30	2999.30						

\*SECNO .300  
 3700. BRIDGE STENCL= 310.00 STENCR= 370.00

\*\*\* GR CARDS REPEATED  
 6870 D.S. ENERGY OF 3010.67 HIGHER THAN COMPUTED ENERGY OF 3010.31  
 PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TAREA	ELLC
3028.86	3010.77	0.11	1598.	412.	72.	72.	3004.20
ELTRD							
3004.80							

3470 ENCROACHMENT STATIONS= 310.0 370.0 TYPE= 1 TARGET= 60.000  
 0.30 2010. 102. 1373. 535. 1.17 3 60.  
 3009.50 0.0 47. 133. 194. -0.00 0 3002.00  
 10.20 3008.98 2.15 10.33 2.76 0.0 3010.67 3003.30  
 0.009397 0.052 0.150 0.055 0.150 0.0 -0.00 310.00  
 2999.30 12. 12. 12. 18. 42. 370.00 12.

\*SECNO .300

HANEY CREEK 100 YR FLOODWAY 07/03/81  
 MILE Q QLOB QCH QROB HV ITRIAL TOPWID  
 ELEV CRIWS ALOB ACH AROB DHV IDC BANK ELEV  
 DEPTH WSELK VLOB VCH VROB HL EG LEFT/RIGHT  
 SLOPE WTN XNL XNCH XNR OLOSS CORAR SSTA  
 ELMIN XLOBL XLCH XLOBR WSDL WSDR ENDST VOL

3470 ENCROACHMENT STATIONS= 310.0 370.0 TYPE= 1 TARGET= 60.000  
 0.30 2010. 107. 1345. 558. 1.20 1 60.  
 3009.58 0.0 48. 127. 197. 0.04 0 3002.00  
 9.58 3009.05 2.21 10.59 2.83 0.10 3010.78 3003.30  
 0.009770 0.052 0.150 0.055 0.150 0.02 -0.00 310.00  
 3000.00 10. 10. 18. 42. 370.00 12.

\*SECNO .320

\*\*\* GR CARDS REPEATED

3470 ENCROACHMENT STATIONS= 310.0 370.0 TYPE= 1 TARGET= 60.000  
 0.32 2005. 115. 1305. 585. 0.86 2 60.  
 3010.71 0.0 60. 144. 236. -0.34 0 3002.00  
 10.71 3009.85 1.92 9.07 2.48 0.76 3011.57 3003.30  
 0.006066 0.052 0.150 0.055 0.150 0.03 -0.00 310.00  
 3000.00 100. 100. 100. 18. 42. 370.00 13.

\*SECNO .370

\*\*\* GR CARDS REPEATED

3301 HV CHANGED MORE THAN HVINS

HANEY CREEK 100 YR FLOODWAY 07/03/81  
 MILE Q QLOB QCH QROB HV ITRIAL TOPWID  
 ELEV CRIWS ALOB ACH AROB DHV IDC BANK ELEV  
 DEPTH WSELK VLOB VCH VROB HL EG LEFT/RIGHT  
 SLOPE WTN XNL XNCH XNR OLOSS CORAR SSTA  
 ELMIN XLOBL XLCH XLOBR WSDL WSDR ENDST VOL

3685 20 TRIALS ATTEMPTED WSEL,CWSEL  
 3693 PROBABLE MINIMUM SPECIFIC ENERGY  
 3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 310.0 370.0 TYPE= 1 TARGET= 60.000  
 0.37 1995. 85. 1430. 480. 2.33 20 60.  
 3022.99 3022.99 30. 100. 134. 1.46 19 3017.20  
 7.79 3023.07 2.79 14.29 3.58 2.70 3025.32 3018.50  
 0.024418 0.053 0.150 0.055 0.150 0.73 -0.00 310.00

3015.20 250. 250. 250. 18. 42. 370.00 15.

3015.20

250.

250.

250.

18.

G02

42.

370.00

15.



\*\*\*\*\*  
 HEC2 RELEASE DATED NOV 76 UPDATED JULY1979  
 ERROR CORR - 01,02,03  
 MODIFICATION - 50,51,52,53,54  
 \*\*\*\*\*

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

HANEY CREEK

SUMMARY PRINTOUT TABLE 110

SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
* 0.010	2933.78	0.0	2935.40	142.	0.	0.	0.	366.	384.	314.	1546.	205.
0.010	2934.78	1.00	2936.66	40.	40.	350.	390.	366.	384.	203.	1773.	89.
0.010	2935.09	0.0	2935.72	156.	0.	0.	0.	355.	384.	291.	1561.	213.
0.010	2935.99	0.90	2936.97	40.	40.	350.	390.	355.	384.	32.	1963.	70.
0.010	2934.91	0.0	2935.91	154.	0.	0.	0.	355.	384.	134.	1748.	183.
0.010	2935.92	1.01	2937.05	40.	40.	350.	390.	355.	384.	12.	2001.	52.
0.010	2935.51	0.0	2936.16	160.	0.	0.	0.	355.	384.	240.	1593.	232.
0.010	2936.25	0.74	2937.28	40.	40.	350.	390.	355.	384.	15.	1994.	56.
0.010	2935.72	0.0	2936.18	162.	0.	0.	0.	355.	384.	345.	1494.	226.
0.010	2936.41	0.70	2937.30	40.	40.	350.	390.	355.	384.	33.	1963.	70.
0.010	2935.66	0.0	2936.28	161.	0.	0.	0.	366.	384.	514.	1305.	246.
0.010	2936.20	0.54	2937.57	40.	40.	350.	390.	366.	384.	211.	1772.	81.
* 0.020	2937.49	0.0	2939.10	142.	0.	0.	0.	366.	384.	315.	1544.	206.
* 0.020	2937.05	-0.44	2939.98	40.	40.	350.	390.	366.	384.	163.	1814.	88.
* 0.080	2945.22	0.0	2946.39	170.	0.	0.	0.	298.	322.	316.	1517.	217.
* 0.080	2945.17	-0.05	2947.00	80.	80.	250.	330.	298.	322.	239.	1757.	54.
0.080	2946.07	0.0	2946.84	174.	0.	0.	0.	298.	322.	375.	1432.	243.
0.080	2946.48	0.41	2947.57	80.	80.	250.	330.	298.	322.	324.	1675.	50.
0.080	2946.14	0.0	2946.87	174.	0.	0.	0.	298.	322.	382.	1421.	247.
0.080	2946.66	0.52	2947.67	80.	80.	250.	330.	298.	322.	339.	1661.	51.
0.080	2946.10	0.0	2947.05	108.	0.	0.	0.	298.	327.	441.	1609.	0.
0.080	2946.90	0.80	2947.75	80.	80.	250.	330.	298.	327.	374.	1675.	0.
* 0.090	2947.27	0.0	2948.84	106.	0.	0.	0.	298.	327.	311.	1739.	0.
* 0.090	2947.24	-0.04	2949.10	76.	80.	250.	330.	298.	327.	215.	1835.	0.
0.150	2951.68	0.0	2953.52	31.	0.	0.	0.	312.	344.	0.	2035.	0.
0.150	2951.89	0.21	2953.61	30.	80.	310.	390.	312.	344.	0.	2035.	0.

SECNO	CWSEL	DIFKWS	EG	TOPWID	PERENC	STENCL	STENCR	STCHL	STCHR	QLOB	QCH	QROB
0.150	2953.14	0.0	2954.50	50.	0.	0.	0.	312.	344.	0.	2027.	7.
0.150	2953.17	0.04	2954.53	33.	80.	310.	390.	312.	344.	0.	2035.	0.
0.150	2955.12	0.0	2955.76	137.	0.	0.	0.	312.	344.	9.	1873.	153.
0.150	2955.93	0.81	2956.49	80.	80.	310.	390.	312.	344.	7.	1905.	123.
0.150	2955.20	0.0	2955.83	139.	0.	0.	0.	312.	344.	6.	1869.	161.
0.150	2955.98	0.78	2956.54	80.	80.	310.	390.	312.	344.	5.	1906.	124.
* 0.300	3007.74	0.0	3009.13	139.	0.	0.	0.	320.	335.	127.	1259.	625.
* 0.300	3007.64	-0.10	3009.98	60.	60.	310.	370.	320.	335.	78.	1485.	447.
0.300	3008.97	0.0	3009.62	156.	0.	0.	0.	320.	335.	163.	1076.	771.
0.300	3009.49	0.52	3010.67	60.	60.	310.	370.	320.	335.	102.	1374.	534.
0.300	3008.98	0.0	3009.62	156.	0.	0.	0.	320.	335.	163.	1074.	773.
0.300	3009.50	0.52	3010.67	60.	60.	310.	370.	320.	335.	102.	1373.	535.
0.300	3009.05	0.0	3009.69	157.	0.	0.	0.	320.	335.	170.	1035.	805.
0.300	3009.57	0.52	3010.78	60.	60.	310.	370.	320.	335.	107.	1345.	558.
0.320	3009.85	0.0	3010.27	167.	0.	0.	0.	320.	335.	185.	952.	868.
0.320	3010.71	0.86	3011.57	60.	60.	310.	370.	320.	335.	115.	1305.	585.
* 0.370	3023.07	0.0	3024.38	141.	0.	0.	0.	320.	335.	137.	1189.	669.
* 0.370	3022.99	-0.07	3025.32	60.	60.	310.	370.	320.	335.	85.	1430.	480.

## SUMMARY OF ERRORS

CAUTION SECNO= 0.010 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.020 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.020 PROFILE= 1  
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.020 PROFILE= 1  
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.020 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.080 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.080 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.090 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.090 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.300 PROFILE= 1 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.300 PROFILE= 1  
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.300 PROFILE= 1  
20 TRIALS ATTEMPTED TO BALANCE WSEL

CAUTION SECNO= 0.300 PROFILE= 2 CRITICAL DEPTH ASSUMED

CAUTION SECNO= 0.300 PROFILE= 2  
PROBABLE MINIMUM SPECIFIC ENERGY

CAUTION SECNO= 0.300 PROFILE= 2  
20 TRIALS ATTEMPTED TO BALANCE WSEL

J02

CAUTION SECNO= 0.370 PROFILE= 1 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.370 PROFILE= 1  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.370 PROFILE= 1  
20 TRIALS ATTEMPTED TO BALANCE WSEL  
CAUTION SECNO= 0.370 PROFILE= 2 CRITICAL DEPTH ASSUMED  
CAUTION SECNO= 0.370 PROFILE= 2  
PROBABLE MINIMUM SPECIFIC ENERGY  
CAUTION SECNO= 0.370 PROFILE= 2  
20 TRIALS ATTEMPTED TO BALANCE WSEL

K02

FLOODWAY DATA HANEY CREEK  
 PROFILE NO. 2

STATION	----- WIDTH (FT)	FLOODWAY SECTION AREA	----- MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
0.010	40.	262.	7.9	2934.8	2933.8	1.0
0.010	40.	312.	6.6	2936.0	2935.1	0.9
0.010	40.	257.	8.0	2935.9	2934.9	1.0
0.010	40.	270.	7.6	2936.3	2935.5	0.8
0.010	40.	329.	6.3	2936.4	2935.7	0.7
0.010	40.	319.	6.5	2936.2	2935.7	0.5
0.020	40.	205.	10.1	2937.5	2937.5	0.0
0.080	80.	262.	7.8	2945.2	2945.2	0.0
0.080	80.	367.	5.6	2946.5	2946.1	0.4
0.080	80.	381.	5.4	2946.7	2946.1	0.6
0.080	80.	377.	5.4	2946.9	2946.1	0.8
0.090	80.	248.	8.3	2947.3	2947.3	0.0
0.150	80.	193.	10.5	2951.9	2951.7	0.2
0.150	80.	218.	9.3	2953.2	2953.1	0.1
0.150	80.	417.	4.9	2955.9	2955.1	0.8
0.150	80.	421.	4.8	2956.0	2955.2	0.8
0.300	60.	263.	7.6	3007.7	3007.7	0.0
0.300	60.	374.	5.4	3009.5	3009.0	0.5
0.300	60.	374.	5.4	3009.5	3009.0	0.5
0.300	60.	372.	5.4	3009.6	3009.1	0.5
0.320	60.	440.	4.6	3010.7	3009.9	0.8
0.370	60.	265.	7.5	3023.1	3023.1	0.0

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