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

T1 DAVIDSON COUNTY BASIN I STREAM 17
 T2 FLOODPLAIN STUDY AT HOWAN & DAVIDSON COUNTIES M-G JOB NO. 6918
 T3 50 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	ICD	MINV	IOIR	STRT	METRIC	HVINS	Q	WSEL	FQ
	-10.	3.	0.	0.	0.015000	0.0	0.0	0.	715.000	0.0
J2	PROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	2.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 2

CCHV= 0.100 CCHV= 0.300
 *SECNO 500.000

3265 DIVIDED FLOW

SECNO	DEPTH	CWSEL	CRITFS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	FLOD	WCH	QRQB	ALOB	ACH	ARQB	VOL	TWA	LEFT/RIGHT
TIME	VLDB	WCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBP	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3720	CRITICAL DEPTH ASSUMED								
500.00	6.32	715.42	715.42	715.00	716.15	0.71	0.0	0.0	716.60
441.	0.	370.	71.	0.	50.	43.	0.	0.	716.20
0.0	0.0	7.34	1.64	0.055	0.035	0.055	0.0	709.10	1111.50
0.007970	500.	500.	500.	0.	0	0	0.0	88.84	1232.06

*SECNO 3950.000

SECNO	DEPTH	CWSEL	CRITFS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	FLOD	WCH	QRQB	ALOB	ACH	ARQB	VOL	TWA	LEFT/RIGHT
TIME	VLDB	WCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBP	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3085 20 TRIALS ATTEMPTED WSEL, CWSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

SECNO	DEPTH	CWSEL	CRITFS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	FLOD	WCH	QRQB	ALOB	ACH	ARQB	VOL	TWA	LEFT/RIGHT
TIME	VLDB	WCH	VRQB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBP	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3950.00	1.92	761.52	761.52	0.0	761.66	0.34	32.97	0.04	760.20
130.	78.	37.	21.	27.	5.	9.	5.	6.	760.30
0.25	2.90	7.49	2.74	0.055	0.035	0.055	0.035	759.60	1233.25
0.014379	3450.	3450.	3450.	20	17	0	0.0	256.52	1289.77

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 T3 100 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	INO	NINV	IDIR	STRT	METRIC	HVINS	Q	WSEL	FO
	-10.	4.	0.	0.	0.015000	0.0	0.0	0.	717.000	0.0
J2	HPROF	IPLT	PRFVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIN	ITRACE
	3.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 3

CCHV= 0.100 CCHV= 0.300
 *SECH0 500.000

3265 DIVIDED FLOW

SECH0	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	WLOB	WCH	WROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTR	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3720	CRITICAL DEPTH ASSUMED								
500.00	6.60	715.76	715.76	717.00	716.45	0.69	0.0	0.0	716.60
562.	0.	417.	145.	0.	55.	73.	0.	0.	716.20
0.0	0.0	7.66	1.29	0.055	0.035	0.055	0.0	709.10	1111.36
0.008260	500.	500.	500.	0	9	0	0.0	112.12	1241.59

*SECH0 3-50.000

SECH0	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	WLOB	WCH	WROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTR	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3685 20 TRIALS ATTEMPTED WSEL, WSEL
 3693 PROBABLE MINIMUM SPECIFIC ENERGY

SECH0	DEPTH	WSEL	CRWS	WSELK	EG	HV	HL	QLOSS	BANK ELEV
Q	WLOB	WCH	WROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTR	ELMIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3729	CRITICAL DEPTH ASSUMED								
3950.00	2.09	761.69	761.69	0.0	762.06	0.37	34.39	0.03	760.20
133.	139.	44.	31.	34.	5.	10.	7.	7.	760.30
0.22	3.16	6.29	2.01	0.055	0.035	0.055	0.055	759.60	1227.97
0.020270	3450.	3450.	3450.	20	17	0	0.0	63.58	1291.56

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 T3 500 YEAR FLOOD WATER SURFACE PROFILE

J1	ICHECK	IBD	WINV	TDIR	STRT	METRIC	HVIMS	Q	WSEL	FQ
	-10.	5.	0.	0.	0.015000	0.0	0.0	0.	718.000	0.0
J2	WPROF	INLOT	PREVS	XSECV	XSECH	FN	ALLDC	IBW	CHNIM	ITRACE
	15.000	0.0	-1.000	0.0	0.0	0.0	0.0	0.0	0.0	0.0

*PROF 4

CCHV= 0.100 CCHV= 0.300
 *SECNO 500.000

SECNO	DEPTH	WSEL	CRUS	WSELK	FG	HV	HL	QLOSS	BANK ELEV
Q	ALOB	ACH	OROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOS	VCH	VROB	XAL	XACH	XAR	WTM	ELPIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	TRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
5720	CRITICAL DEPTH ASSUMED								
500.00	7.24	716.34	716.34	718.00	716.97	0.63	0.0	0.0	716.60
369.	9.	500.	369.	0.	62.	143.	0.	0.	716.20
0.0	0.0	8.00	2.50	0.055	0.055	0.055	0.0	709.10	1111.11
0.700410	500.	500.	500.	0	14	0	0.0	147.29	1258.40

*SECNO 5050.000

SECNO	DEPTH	WSEL	CRUS	WSELK	FG	HV	HL	QLOSS	BANK ELEV
Q	ALOB	ACH	OROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOS	VCH	VROB	XAL	XACH	XAR	WTM	ELPIN	SSTA
SLOPE	XLOB	XLCH	XLOBR	TRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3605	20 TRIALS ATTEMPTED WSEL, CRSEL								
3693	PROBABLE MINIMUM SPECIFIC ENERGY								
3720	CRITICAL DEPTH ASSUMED								
3450.00	2.62	762.02	762.02	0.0	762.98	0.46	35.78	0.02	760.20
309.	102.	61.	309.	51.	0.	15.	11.	9.	760.30
0.20	3.75	0.66	3.61	0.055	0.055	0.055	0.035	759.60	1217.77
0.021345	4050.	3450.	3450.	20	20	0	0.0	77.25	1295.02

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

10 YEAR FLOOD WATER SURF
 SUMMARY PRINTOUT

	SECRD	XLCH	ELTRD	ELLC	Q	ELKIN	CWSEL	CRINS	VCH	SSTA	ENDST	AREA	DIFWSP
	500.000	500.00	0.0	0.0	222.00	709.10	713.22	0.0	8.18	1112.45	1121.74	27.14	0.0
A	* 500.000	500.00	0.0	0.0	441.00	709.10	715.42	715.42	7.34	1111.50	1232.06	93.65	2.20
*	500.000	500.00	0.0	0.0	562.00	709.10	715.76	715.76	7.66	1111.36	1241.59	127.16	0.33
*	500.000	500.00	0.0	0.0	869.00	709.10	716.34	716.34	8.00	1111.11	1258.40	204.75	0.59
	3950.000	3450.00	0.0	0.0	63.00	759.60	761.29	0.0	5.04	1240.50	1287.31	27.34	0.0
B	* 3950.000	3450.00	0.0	0.0	136.00	759.60	761.52	761.52	7.65	1233.25	1289.77	39.49	0.23
B	* 3950.000	3450.00	0.0	0.0	183.00	759.60	761.69	761.69	8.29	1227.97	1291.56	49.77	0.17
*	3950.000	3450.00	0.0	0.0	309.00	759.60	762.02	762.02	9.66	1217.77	1295.02	73.08	0.33

SUMMARY OF ERRORS

CAUTION SECNO= 500.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 500.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 500.000 PROFILE= 4 CRITICAL DEPTH ASSUMED

 CAUTION SECNO= 3950.000 PROFILE= 2 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 3950.000 PROFILE= 2 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 3950.000 PROFILE= 2 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 3950.000 PROFILE= 3 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 3950.000 PROFILE= 3 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 3950.000 PROFILE= 3 20 TRIALS ATTEMPTED TO BALANCE WSEL
 CAUTION SECNO= 3950.000 PROFILE= 4 CRITICAL DEPTH ASSUMED
 CAUTION SECNO= 3950.000 PROFILE= 4 PROBABLE MINIMUM SPECIFIC ENERGY
 CAUTION SECNO= 3950.000 PROFILE= 4 20 TRIALS ATTEMPTED TO BALANCE WSEL

FLOOD INSURANCE ZONE DATA FOR 10 YEAR FLOOD WATER SURF

FLOOD HAZARD FACTOR FOR ENTIRE REACH USING SECTIONS

SECTION NUMBER	CUMULATIVE DISTANCE	ELEVATION DIFFERENCE BETWEEN BASE FLOOD AND		
		10F	20	0.20
500.000	0.	-2.5	-0.3	0.6
3950.000	3450.	-0.4	-0.2	0.3
WEIGHTED AVG FOR REACH		-1.5	-0.3	0.5

FHF FOR THE REACH = 015 WITH 100.00 OF THE REACH WITHIN 0.5 FEET
ZONE FOR THE REACH = A 3

