

HEC2 VERSION UPDATED JAN 1976  
 ERB ESTIMATIONS 01:02:03:04:05:06:07:08:09  
 ESTIMATIONS 52,53,54,55,56,57,58  
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*First*  
*Black*  
*2nd*

1 BOYARD AC FIA 5  
 2 10 YEAR 10  
 3 UMWATER DAVIDSON RIVER 11-16-76 SFA 15

CH	ICHECK	INC	NIWV	IDIP	STRT	METRIC	HVINS	O	MSEL	FQ	
MC	0.100	0.100	0.035	0.0	0.100	0.500	0.0	0.0	0.0	0.0	20
OT	4.000	360.000	565.000	0.0	690.000	950.000	0.0	0.0	0.0	0.0	25
X1	0.100	23.000	348.000	0.0	356.000	0.0	0.0	0.0	0.0	0.0	65
GR	2120.000	0.0	2107.700	0.0	0.0	100.000	2107.500	0.0	200.000	2107.400	66
GR	2107.300	271.000	2107.200	0.0	300.000	326.000	2107.300	0.0	334.000	2103.700	67
GR	2100.400	349.000	2100.400	0.0	356.000	356.000	2107.200	0.0	370.000	2107.200	68
GR	2107.100	400.000	2107.000	0.0	465.000	518.000	2107.100	0.0	522.000	2107.600	69
GR	2107.700	650.000	2108.000	0.0	700.000	700.000	2107.200	0.0	0.0	0.0	70
GR	1.250	1.600	3.000	0.0	0.0	1.720	25.130	0.0	0.0	0.0	105
X1	0.0	25.000	326.000	0.0	370.000	30.000	30.000	0.0	0.0	0.0	110
GR	0.0	0.0	1.000	0.0	2104.400	2107.000	0.0	0.0	0.0	0.0	115
GR	23.000	0.0	2111.500	0.0	0.0	2107.700	0.0	0.0	100.000	2107.700	125
GR	250.000	2107.500	0.0	0.0	250.000	0.0	271.000	0.0	2107.300	0.0	130
GR	2108.400	0.0	326.000	0.0	2109.000	334.000	2107.300	0.0	0.0	348.000	135
GR	0.0	349.000	2107.300	0.0	395.000	0.0	400.000	0.0	356.000	2107.300	140
GR	370.000	2107.300	0.0	0.0	2107.200	522.000	2107.200	0.0	2107.200	0.0	145
GR	0.0	650.000	2107.000	0.0	0.0	2108.000	0.0	0.0	700.000	2111.000	155
GR	2111.500	0.0	2107.000	0.0	0.0	100.000	2107.500	0.0	200.000	2107.400	165
GR	2107.300	271.000	2107.300	0.0	300.000	326.000	2107.400	0.0	334.000	2103.700	170
GR	2101.300	350.000	2101.000	0.0	352.000	355.000	2101.300	0.0	356.000	2102.900	175
GR	2107.300	370.000	2107.200	0.0	395.000	400.000	2107.000	0.0	465.000	2107.200	180
GR	2107.200	522.000	2107.600	0.0	600.000	650.000	2108.000	0.0	700.000	2111.000	185
X1	0.100	0.0	0.0	0.0	0.0	10.000	10.000	0.0	0.0	0.0	160
GR	0.080	0.050	0.035	0.0	0.100	0.500	0.0	0.0	0.0	0.0	190
GR	4.000	335.000	520.000	0.0	640.000	880.000	0.0	0.0	0.0	0.0	0
X1	0.250	17.000	254.000	0.0	264.000	730.000	730.000	0.0	730.000	-3.700	0
GR	2116.000	16.000	2111.600	0.0	18.000	100.000	2109.800	0.0	200.000	2111.000	205
GR	2100.800	254.000	2107.000	0.0	256.000	256.000	2106.200	0.0	260.000	2107.000	210
GR	2105.200	264.000	2111.200	0.0	273.000	300.000	2112.600	0.0	306.000	2114.000	215
GR	2116.000	347.000	2117.000	0.0	349.000	0.0	0.0	0.0	0.0	0.0	220
GR	4.000	309.000	475.000	0.0	577.000	805.000	0.0	0.0	0.0	0.0	195
X1	0.410	0.0	0.0	0.0	0.0	800.000	800.000	0.0	0.0	3.700	0
GR	0.080	0.050	0.035	0.0	0.100	0.500	0.0	0.0	0.0	0.0	225
GR	4.000	270.000	410.000	0.0	500.000	703.000	0.0	0.0	0.0	0.0	230
X1	0.600	21.000	364.000	0.0	367.000	1060.000	1060.000	0.0	0.0	0.0	235
GR	2117.100	35.000	2114.900	0.0	150.000	175.000	2116.000	0.0	230.000	2115.900	240
GR	2116.500	350.000	2114.500	0.0	360.000	362.000	2112.200	0.0	364.000	2110.800	245
GR	2110.800	367.000	2111.400	0.0	367.000	370.000	2114.600	0.0	373.000	2116.800	250



SUMMARY PRINTOUT FOR MULTIPLE PROFILES

URB DAVIDSON PIVER

SECTION NUMBER	CHANNEL LENGTH	WIN EL	FL OF	MAX EL	OF	MIN EL	FL	DISCHARGE	CHSEL	TO	PERENC	TOPMID	STENCL	STENCR	USELK
								(CFS)							
0.10	0.0	0.0	0.0	0.0	0.0	2100.40	360.00	2104.55	257.78	0.0	16.46	0.0	0.0	2106.00	
0.10	0.0	0.0	0.0	0.0	0.0	2100.40	565.00	2106.02	46.26	0.0	27.06	0.0	0.0	2106.50	
0.10	0.0	0.0	0.0	0.0	0.0	2100.40	690.00	2107.85	112.61	0.0	675.91	0.0	0.0	2107.50	
0.10	0.0	0.0	0.0	0.0	0.0	2100.40	550.00	2108.13	151.41	0.0	700.00	0.0	0.0	2108.00	
0.10	30.00	2107.00	2107.00	2104.40	2101.00	2101.00	360.00	2107.24	75.82	0.0	283.90	0.0	0.0	0.0	
0.10	30.00	2107.00	2107.00	2104.40	2101.00	2101.00	565.00	2107.59	101.46	0.0	599.20	0.0	0.0	0.0	
0.10	30.00	2107.00	2107.00	2104.40	2101.00	2101.00	690.00	2108.20	201.49	0.0	700.00	0.0	0.0	0.0	
0.10	30.00	2107.00	2107.00	2104.40	2101.00	2101.00	550.00	2108.42	257.82	0.0	700.00	0.0	0.0	0.0	
0.10	10.00	0.0	0.0	0.0	0.0	2101.00	360.00	2107.27	81.94	0.0	314.78	0.0	0.0	0.0	
0.10	10.00	0.0	0.0	0.0	0.0	2101.00	565.00	2107.65	106.10	0.0	612.18	0.0	0.0	0.0	
0.10	10.00	0.0	0.0	0.0	0.0	2101.00	690.00	2108.21	206.60	0.0	700.00	0.0	0.0	0.0	
0.10	10.00	0.0	0.0	0.0	0.0	2101.00	950.00	2109.44	257.32	0.0	700.00	0.0	0.0	0.0	
0.25	730.00	0.0	0.0	0.0	0.0	2102.50	335.00	2108.26	122.14	0.0	268.07	0.0	0.0	0.0	
0.25	730.00	0.0	0.0	0.0	0.0	2102.50	520.00	2108.83	188.38	0.0	277.41	0.0	0.0	0.0	
0.25	730.00	0.0	0.0	0.0	0.0	2102.50	640.00	2108.97	212.69	0.0	283.80	0.0	0.0	0.0	
0.25	730.00	0.0	0.0	0.0	0.0	2102.50	860.00	2109.34	271.67	0.0	295.94	0.0	0.0	0.0	
0.41	800.00	0.0	0.0	0.0	0.0	2106.20	308.00	2110.66	35.44	0.0	119.99	0.0	0.0	0.0	
0.41	800.00	0.0	0.0	0.0	0.0	2106.20	475.00	2111.24	61.28	0.0	183.13	0.0	0.0	0.0	
0.41	800.00	0.0	0.0	0.0	0.0	2106.20	570.00	2111.63	72.58	0.0	220.63	0.0	0.0	0.0	
0.41	800.00	0.0	0.0	0.0	0.0	2106.20	805.00	2111.63	85.35	0.0	262.24	0.0	0.0	0.0	
0.60	1060.00	0.0	0.0	0.0	0.0	2110.80	270.00	2114.95	62.17	0.0	132.97	0.0	0.0	0.0	
0.60	1060.00	0.0	0.0	0.0	0.0	2110.80	410.00	2115.38	86.07	0.0	143.92	0.0	0.0	0.0	
0.60	1060.00	0.0	0.0	0.0	0.0	2110.80	500.00	2115.64	106.96	0.0	150.90	0.0	0.0	0.0	
0.60	1060.00	0.0	0.0	0.0	0.0	2110.80	703.00	2116.20	154.91	0.0	303.43	0.0	0.0	0.0	
0.60	40.00	0.0	0.0	0.0	0.0	2110.80	270.00	2115.03	66.37	0.0	134.88	0.0	0.0	0.0	
0.60	40.00	0.0	0.0	0.0	0.0	2110.80	410.00	2115.47	54.20	0.0	146.26	0.0	0.0	0.0	
0.60	40.00	0.0	0.0	0.0	0.0	2110.80	500.00	2115.74	112.85	0.0	153.29	0.0	0.0	0.0	
0.60	40.00	0.0	0.0	0.0	0.0	2110.80	703.00	2116.29	164.26	0.0	320.73	0.0	0.0	0.0	
0.76	750.00	2126.40	2126.40	2124.10	2120.10	2120.10	210.00	2127.15	101.61	0.0	312.23	0.0	0.0	0.0	
0.76	750.00	2126.40	2126.40	2124.10	2120.10	2120.10	333.00	2127.40	146.77	0.0	356.18	0.0	0.0	0.0	
0.76	750.00	2126.40	2126.40	2124.10	2120.10	2120.10	410.00	2127.52	162.81	0.0	376.86	0.0	0.0	0.0	
0.76	750.00	2126.40	2126.40	2124.10	2120.10	2120.10	580.00	2127.71	205.81	0.0	398.66	0.0	0.0	0.0	
0.76	10.00	0.0	0.0	0.0	0.0	2120.10	210.00	2127.13	66.22	0.0	309.00	0.0	0.0	0.0	
0.76	10.00	0.0	0.0	0.0	0.0	2120.10	333.00	2127.38	75.69	0.0	352.20	0.0	0.0	0.0	
0.76	10.00	0.0	0.0	0.0	0.0	2120.10	410.00	2127.49	60.67	0.0	372.67	0.0	0.0	0.0	
0.76	10.00	0.0	0.0	0.0	0.0	2120.10	580.00	2127.69	111.77	0.0	396.89	0.0	0.0	0.0	
0.95	1010.00	0.0	0.0	0.0	0.0	2134.40	155.00	2134.95	10.10	0.0	12.08	0.0	0.0	0.0	
0.95	1010.00	0.0	0.0	0.0	0.0	2134.40	240.00	2137.58	16.08	0.0	13.35	0.0	0.0	0.0	
0.95	1010.00	0.0	0.0	0.0	0.0	2134.40	310.00	2138.03	21.11	0.0	14.25	0.0	0.0	0.0	
0.95	1010.00	0.0	0.0	0.0	0.0	2134.40	435.00	2139.15	40.86	0.0	91.53	0.0	0.0	0.0	



DATA FILE	LAST CROSS SECTION	TYPE	ENCL	TARGET	TOP WIDTH AREA-ACRES	TCP WIDTH AREA-DIFF													
0.760	210.000			2127.146	0.0	12.113	0.0	312.226	0.0	750.000									
0.760	333.000			2127.398	0.253	11.520	0.3	356.182	-43.956	750.000									
0.760	410.000			2127.516	0.119	11.781	0.0	376.863	-64.636	750.000									
0.760	580.000			2127.712	0.196	11.421	0.3	398.663	-86.437	750.000									
0.760	210.000			2127.127	0.0	-0.018	0.0	309.001	0.0	10.000									
0.760	333.000			2127.375	0.248	-0.023	0.0	352.195	-43.194	10.000									
0.760	410.000			2127.492	0.117	-0.024	0.0	372.667	-63.666	10.000									
0.760	580.000			2127.696	0.193	-0.027	0.0	396.894	-87.893	10.000									
0.950	155.000			2136.952	0.0	5.825	0.0	12.080	0.0	1010.000									
0.950	240.000			2137.584	0.632	10.269	0.0	13.347	-1.267	1010.000									
0.950	310.000			2138.032	0.448	10.526	0.0	14.245	-2.166	1010.000									
0.950	435.000			2139.150	1.118	11.464	0.0	91.527	-79.448	1010.000									
1.050	100.000			2144.658	0.0	8.046	0.0	13.944	0.0	530.000									
1.050	160.000			2145.706	0.708	8.121	0.3	15.535	-1.591	530.000									
1.050	210.000			2146.159	0.493	8.167	0.3	16.622	-2.677	530.000									
1.050	300.000			2146.350	0.151	7.200	0.0	16.963	-3.018	530.000									
1.130	100.000			2159.385	0.0	14.388	0.0	12.827	0.0	390.000									
1.130	160.000			2160.044	0.659	14.325	0.0	14.287	-1.460	390.000									
1.130	210.000			2160.511	0.467	14.313	0.0	15.323	-2.497	390.000									
1.130	300.000			2161.253	0.742	14.503	0.0	16.969	-4.142	390.000									
1.130	100.000			2160.925	0.0	1.529	0.0	3.500	0.0	30.000									
1.130	160.000			2162.004	1.079	1.960	0.0	3.500	0.0	30.000									
1.130	210.000			2162.802	0.798	2.251	0.0	3.500	0.0	30.000									
1.130	300.000			2164.099	1.297	2.846	0.0	3.500	0.0	30.000									
1.150	100.000			2167.690	0.0	6.765	0.0	3.500	0.0	100.000									
1.150	160.000			2168.643	0.953	6.629	0.0	3.500	0.0	100.000									
1.150	210.000			2169.467	0.824	6.666	0.0	3.500	0.0	100.000									
1.150	300.000			2173.043	3.576	8.544	0.0	22.868	-19.368	100.000									
1.150	100.000			2168.563	0.0	1.273	0.0	8.622	0.0	15.000									
1.150	160.000			2170.700	1.737	2.057	0.0	13.962	-5.340	15.000									
1.150	210.000			2171.953	1.253	2.486	0.0	17.815	-9.193	15.000									
1.150	300.000			2173.236	1.283	0.153	0.0	21.758	-13.136	15.000									

DATA FILE LAST CROSS SECTION  
 PROFILE TYPE ENCL TARGET TOP WIDTH AREA-ACRES TCP WIDTH AREA-DIFF

1 0.0 19.757 0.0  
 2 0.0 25.121 5.364  
 3 0.0 27.655 7.858  
 4 0.0 34.087 14.330

SUMMARY PRINTOUT FOR MULTIPLE PROFILES

TPR DAVIOSCA RIVER

SECTION NUMBER	CHANNEL LENGTH	MIN EL OF ROADWAY	MAX EL OF LOW CHGRD	MIN EL OF GROUND	DISCHARGE (CFS)	CWSFL	TO	PERENC	TOPWID	STENCL	STENCR	WSELK
0.10	0.0	0.0	0.0	2100.40	690.00	2107.85	113.06	0.0	675.00	0.0	0.0	2107.85
0.10	0.0	0.0	0.0	2100.40	690.00	2108.85	171.67	200.00	200.00	250.00	450.00	2108.85
0.10	30.00	2107.00	2104.40	2101.00	690.00	2108.31	226.63	0.0	700.00	0.0	0.0	0.0
0.10	30.00	2107.00	2104.40	2101.00	690.00	2108.93	227.86	200.00	200.00	250.00	450.00	0.0
0.10	10.00	0.0	0.0	2101.00	690.00	2108.32	230.56	0.0	700.00	0.0	0.0	0.0
0.10	10.00	0.0	0.0	2101.00	690.00	2108.94	229.48	200.00	200.00	250.00	450.00	0.0
0.25	730.00	0.0	0.0	2102.50	640.00	2108.98	214.92	0.0	284.76	0.0	0.0	0.0
0.25	730.00	0.0	0.0	2102.50	640.00	2109.58	238.74	150.00	150.00	125.00	275.00	0.0
0.41	800.00	0.0	0.0	2106.20	577.00	2111.41	72.51	0.0	220.41	0.0	0.0	0.0
0.41	800.00	0.0	0.0	2106.20	577.00	2111.36	63.16	105.00	105.00	170.00	275.00	0.0
0.60	1060.00	0.0	0.0	2110.80	500.00	2115.66	106.66	0.0	151.31	0.0	0.0	0.0
0.60	1060.00	0.0	0.0	2110.80	500.00	2116.39	103.61	305.00	295.13	80.00	385.00	0.0
0.60	40.00	0.0	0.0	2110.80	500.00	2115.75	113.57	0.0	153.71	0.0	0.0	0.0
0.60	40.00	0.0	0.0	2110.80	500.00	2116.50	113.63	305.00	301.61	80.00	385.00	0.0
0.76	750.00	2126.40	2124.10	2120.10	410.00	2128.28	376.01	0.0	459.34	0.0	0.0	0.0
0.76	750.00	2126.40	2124.10	2120.10	410.00	2128.26	210.79	155.00	155.00	475.00	630.00	0.0
0.76	10.00	0.0	0.0	2120.10	410.00	2128.28	201.89	0.0	459.45	0.0	0.0	0.0
0.76	10.00	0.0	0.0	2120.10	410.00	2128.25	118.09	155.00	155.00	475.00	630.00	0.0
0.95	1010.00	0.0	0.0	2134.40	310.00	2138.03	21.04	0.0	14.23	0.0	0.0	0.0
0.95	1010.00	0.0	0.0	2134.40	310.00	2138.02	20.93	40.00	14.22	110.00	150.00	0.0
1.05	530.00	0.0	0.0	2142.10	210.00	2146.20	21.97	0.0	16.64	0.0	0.0	0.0
1.05	530.00	0.0	0.0	2142.10	210.00	2146.21	22.07	50.00	16.66	125.00	175.00	0.0
1.12	790.00	0.0	0.0	2157.00	210.00	2160.51	16.25	0.0	15.32	0.0	0.0	0.0
1.12	790.00	0.0	0.0	2157.00	210.00	2160.51	16.28	50.00	15.33	125.00	175.00	0.0
1.13	30.00	0.0	0.0	2158.00	210.00	2162.80	11.53	0.0	3.50	0.0	0.0	0.0
1.13	30.00	0.0	0.0	2158.00	210.00	2162.80	11.53	50.00	3.50	125.00	175.00	0.0
1.15	100.00	2175.00	2169.20	2164.60	210.00	2169.47	11.72	0.0	3.50	0.0	0.0	0.0
1.15	100.00	2175.00	2169.20	2164.60	210.00	2169.47	11.73	50.00	3.50	125.00	175.00	0.0
1.15	15.00	0.0	0.0	2164.60	210.00	2171.95	38.13	0.0	17.81	0.0	0.0	0.0
1.15	15.00	0.0	0.0	2164.60	210.00	2171.95	38.12	50.00	17.81	125.00	175.00	0.0

SECTION NUMBER	DISCHARGE CFS	CWSFL	CWSFL DIFF EACH Q	CWSFL DIFF EACH SECTION	CWSFL-WSELK	TOPWID	T.W. DIFF	LENGTH
0.100	690.000	2107.849	0.0	0.0	0.0	675.000	0.0	0.0
0.100	690.000	2108.849	1.000	0.0	0.0	199.999	475.001	0.0
0.100	690.000	2108.313	0.0	0.463	0.0	700.000	0.0	30.000
0.100	690.000	2108.926	0.614	0.077	0.0	199.999	500.001	30.000
0.100	690.000	2108.324	0.0	0.011	0.0	700.000	0.0	10.000









