FEMA Effective Model as of June 18, 2007

TC&R values for FEMA Effective Model

Spring Creek Watershed

HCFCD TC&R Excel Template

Subwatershed	Drainage Area (acres)	Drainage Area (sq.mi.)	Watershed Length (mi.) L	Length to Centroid(mi.) Lca	Channel Slope(ft./mi) S	Overland Slope(ft./mi.) So	D	Percent Urban Development 2002 DLU	Percent Channel Improvement DCI	Percent Channel Conveyance DCC	Percent Ponding DPP	DLU affected by Detention DET	Percent Impervious 2002	(TC+R)''	TC''	R''	DLU Minimum	DLU *(Detention)*
J100A	7159.6	11.19	6.57	3.10	8.00	108.00	5.12	5.40	0	100	0	0.00	0.60	13.14	5.59	7.55	17.59	5.40
201	7448.8	11.64	8.52	5.00	7.00	38.80	3.79	71.90	0	50	0	0.00	30.50	12.30	6.45	5.85	46.56	71.90
301	10719.3	16.75	9.20	5.36	31.00	94.00	5.12	39.50	0	100	0	0.00	8.70	5.89	4.56	1.34	17.59	39.50
401	13144.8	20.54	8.81	4.43	7.95	154.00	5.12	5.10	0	100	0	0.00	0.60	16.21	8.18	8.03	17.59	5.10
402	16953.8	26.49	9.38	4.46	7.50	131.00	5.12	24.80	0	100	0	0.00	1.20	13.52	8.19	5.33	17.59	24.80
403	18094.6	28.27	11.28	5.07	3.98	117.00	5.12	21.10	0	100	0	0.00	8.00	21.50	13.21	8.29	17.59	21.10
504	2413.9	3.77	3.43	2.26	4.06	79.00	5.12	35.20	0	100	0	0.00	9.40	6.51	5.42	1.09	17.59	35.20
602	4003.5	6.26	5.29	2.74	7.97	91.00	5.12	59.40	0	50	0	0.00	3.00	9.56	4.42	5.14	46.56	59.40
101A	10700.5	16.72	7.99	4.16	10.00	12.00	2.46	73.60	0	40	0	0.00	25.20	12.66	2.84	9.82	63.71	73.60
101B	5717.6	8.93	5.42	2.73	8.00	30.70	3.79	78.30	0	50	0	0.00	22.20	8.05	3.11	4.94	46.56	78.30
501A	13571.2	21.21	12.09	6.47	16.86	137.00	5.12	24.60	0	100	0	0.00	1.20	12.22	7.91	4.31	17.59	24.60
501B	9336.4	14.59	8.69	3.84	21.63	160.00	5.12	20.50	0	100	0	0.00	1.00	10.03	4.02	6.01	17.59	20.50
502A	9285.4	14.51	6.91	3.19	15.30	107.00	5.12	64.60	0	40	0	0.00	4.80	10.73	3.63	7.11	63.71	64.60
502B	6725.3	10.51	6.91	3.69	15.53	97.00	5.12	11.90	0	100	0	0.00	4.80	10.78	4.68	6.10	17.59	11.90
503A	2530.6	3.95	2.18	1.23	10.05	125.00	5.12	94.70	0	40	0	0.00	6.30	4.26	1.55	2.71	63.71	94.70
503B	4453.2	6.96	6.35	2.95	17.03	116.20	5.12	32.40	0	100	0	0.00	14.30	6.41	3.37	3.04	17.59	32.40
601A	18222.1	28.47	14.27	7.83	11.57	74.00	5.12	4.60	0	100	0	0.00	1.90	19.95	12.29	7.67	17.59	4.60
601B	9715.0	15.18	13.43	7.03	13.70	108.00	5.12	3.40	0	100	0	0.00	0.20	18.01	10.04	7.97	17.59	3.40
J100B	7832.8	12.24	9.53	4.31	5.00	105.00	5.12	5.80	0	100	0	0.00	1.00	20.17	10.16	10.01	17.59	5.80
J100C	8159.2	12.75	8.02	4.22	1.00	100.00	5.12	19.50	0	100	0	0.00	3.60	29.02	22.72	6.30	17.59	19.50
J100D	5339.8	8.34	6.21	2.91	4.00	134.00	5.12	31.40	0	30	0	1.50	10.30	16.12	7.16	8.96	95.43	31.40
J100E	6572.2	10.27	7.31	3.98	3.00	72.00	5.12	42.80	0	20	0	2.29	12.20	20.04	11.37	8.67	168.69	42.80
J100F	4958.3	7.75	5.96	3.15	3.00	67.50	5.12	7.20	0	20	0	1.94	4.70	17.34	9.54	7.80	168.69	7.20
J131	3017.9	4.72	4.22	1.90	13.81	45.00	5.12	48.00	60	70	0	2.05	21.60	5.77	1.64	4.12	29.03	45.95
J100G	5038.2	7.87	6.98	3.25	2.00	78.00	5.12	26.00	0	20	0	0.13	8.60	22.37	11.76	10.61	168.69	26.00
J100H	2133.5	3.33	4.00	2.75	3.00	108.00	5.12	40.80	0	20	0	0.00	16.20	13.09	7.73	5.36	168.69	40.80
J100I	2175.9	3.40	3.42	1.64	2.00	54.00	5.12	19.10	0	40	0	1.29	6.60	13.52	5.79	7.73	63.71	19.10
J121	1140.8	1.78	2.26	1.30	33.43	47.00	5.12	42.00	0	60	0	1.29	16.20	3.42	0.97	2.44	36.04	40.71
J100J	10398.9	16.25	9.12	5.20	4.73	69.00	5.12	52.10	90	40	0	4.16	29.90	19.96	6.61	13.35	63.71	52.10
J109	1547.9	2.42	2.44	1.68	28.00	13.00	2.46	50.80	80	80	0	0.04	25.70	2.51	0.41	2.10	24.06	50.76
J100K	6015.1	9.40	5.77	3.08	2.00	55.00	5.12	7.40	0	40	0	0.04	4.50	19.56	11.53	8.03	63.71	7.40
J100L	3041.8	4.75	3.85	1.79	2.00	57.70	5.12	1.30	0	100	0	0.00	0.30	14.69	6.54	8.15	17.59	1.30
J100M	2446.1	3.82	3.26	2.07	2.00	57.70	5.12	18.80	0	100	0	0.01	9.70	12.33	7.39	4.95	17.59	18.79
J158	6943.1	10.85	7.73	3.43	9.90	67.00	5.12	23.10	0	100	0	0.02	6.20	11.23	5.37	5.86	17.59	23.08

DCC Values calculated based on regression equations and assumption that the channel has 10-year capacity…