FEMA Effective Model as of October 16, 2013 TC&R values for FEMA Effective Model (Updated on 12/13/2018) Cypress & Little Cypress Creek HCFCD TC&R Excel Template

SUB-	Area	L	Lca	S	So	UD _{TOT}	DCI	DCC	DPP	Тс	Tc+R	R	A _{DET}	UD _{DET}	DLU-DET	DLU(min)	Tc(adj)	Tc+R(adj)	R(adj)	R5	R10	R25	R50	R100	R500	I SUB-
AREA k100a	(mi.²) 7.58	(miles) 5.99	(miles) 3.45	(ft/mi) 8.9	(ft/mi) 41	(%)	(%) 0	100	(%) 0	(hours) 5.84	(hours) 11.85	(hours) 6.01	(mi.²) 0.000	0.00	10.80	10.80	(hours) 5.84	(hours) 11.85	(hours) 6.01	6.01	6.01	6.01	6.01	6.01	6.01	(%) AREA 2.50 k100a
k100b	4.18	4.45	3.07	5.4		0	0	100	0	6.87	11.46	4.59	0.000	0.00	0.00	0.00	6.87	11.46	4.59	4.59	4.59	4.59	4.59	4.59	4.59	2.20 k100b
k100c	9.41	5.92	2.89	15.7		0	0	30	5	2.71	9.62	6.90	0.000	0.00	0.00	0.00	2.71	9.62	6.90	12.76	12.17	11.36	10.86	10.33	9.28	0.40 k100c
k100d k100f	10.59 8.40	6.40 5.55	2.27 3.00	5.7	13	0	0	30	100	2.34 3.81	14.56 14.97	12.23 11.16	0.000	0.00	0.00	0.00	2.34 3.81	14.56 14.97	12.23 11.16	30.41	28.41 35.72	25.51 30.66	23.78	21.97 24.80	18.51 19.40	0.80 k100d 0.00 k100f
k100g	3.60	3.65	1.76			0	37	30	37	1.79	11.06	9.27	0.000	0.00	0.00	0.00	1.79	11.06	9.27	26.30	24.34	21.48	19.81	18.07	14.79	1.90 k100g
k100h	3.06	3.83	1.93	2.4	13	1	0	30	36	3.09	13.68	10.59	0.000	0.00	0.60	0.60	3.09	13.68	10.59	29.86	27.65	24.42	22.53	20.56	16.86	0.20 k100h
k100i	1.01	1.84	0.94	10.5	28	1	0	100	0	1.02	4.87	3.85	0.000	0.00	0.80	0.80	1.02	4.87	3.85	3.85	3.85	3.85	3.85	3.85	3.85	0.30 k100i
k100j k100k	5.44 3.47	5.81 3.96	2.49 1.50	5.1 15.0	34	2	0	30	60 8	2.69 1.39	7.37	11.41 5.99	0.000	0.00	5.90 2.30	5.90 2.30	2.69 1.39	14.09 7.37	11.41 5.99	35.88 12.24	32.97 11.59	28.71 10.68	26.25 10.12	23.69 9.53	18.98 8.38	2.00 k100j 1.60 k100k
k100l	4.71	5.19	2.82	7.2		4	0	30	51	2.58	11.57	8.99	0.084	1.79	1.91	3.70	2.58	11.57	8.99	27.33	25.17	22.02	20.19	18.28	14.76	2.80 k100l
k100m	3.98	4.04	2.04	1.8			0	10	0	5.67	15.89	10.22	0.135	3.40	23.20	26.60	5.67	15.89	10.22	10.22	10.22	10.22	10.22	10.22	10.22	17.70 k100m
k100n1 k100n2	3.40 2.67	4.18 3.22	1.58	2.2		45 60	0	20	0	5.03 4.92	15.06 12.53	10.04 7.61	0.555 0.057	16.32 2.15	28.58 57.85	44.90 60.00	5.03 4.92	15.06 12.53	10.04 7.61	7.61	7.61	7.61	7.61	7.61	7.61	20.90 k100n1 24.60 k100n2
k100n2	2.53	2.31	1.49	3.9			0	40	0	2.52	8.08	5.56	0.037	8.51	43.89	52.40	2.52	8.08	5.56	5.56	5.56	5.56	5.56	5.56	5.56	28.20 k100n2
k100o2	2.45	4.05	1.99	2.9	52	61	0	40	0	5.35	13.37	8.02	0.258	10.52	50.28	60.80	5.35	13.37	8.02	8.02	8.02	8.02	8.02	8.02	8.02	26.40 k100o2
k100p	3.23	4.74	2.08	2.1		53	0	60 60	0	5.00	12.79	7.79	0.945	29.23	23.77	36.03	5.18	16.70	11.52	11.52	11.52	11.52	11.52	11.52	11.52	31.30 k100p
k100q k100r	4.88	4.10 4.19	1.42				0	40	0	4.79 1.47	10.75 10.38	5.95 8.91	0.714	14.62 12.40	49.58 47.30	49.58 59.70	4.94 1.47	12.80 10.38	7.86 8.91	33.10 k100q 32.50 k100r						
k100s1	1.54	2.10	1.12	6.3			0	40	0	1.41	6.38	4.96	0.047	3.08	60.62	63.68	1.41	6.37	4.96	4.96	4.96	4.96	4.96	4.96	4.96	29.20 k100s1
k100s2	6.90	4.98	2.35	7.9		72	0	60	0	2.71	6.73	4.02	0.585	8.48	63.82	63.82	2.76	7.32	4.56	4.56	4.56	4.56	4.56	4.56	4.56	38.00 k100s2
k100t k100u	2.56 3.77	3.25 4.00	1.36 1.50	2.5 5.3		58 33	0	80	0	2.88 3.06	6.59 9.67	3.71 6.61	0.073 0.054	2.85 1.44	54.95 31.96	54.95 31.96	2.90 3.07	6.82 9.97	3.92 6.89	41.40 k100t 19.30 k100u						
k100u k100v	2.32	3.27	1.91	4.2			0	70	0	4.39	8.07	3.68	0.054	0.55	39.15	39.15	4.39	9.9 <i>7</i> 8.15	3.76	3.76	3.76	3.76	3.76	3.76	3.76	19.80 k100v
k100x	4.51	4.70	2.34	1.6		40	0	70	0	6.78	14.59	7.82	0.118	2.62	37.68	37.68	6.81	15.27	8.46	8.46	8.46	8.46	8.46	8.46	8.46	20.90 k100x
k111a1	4.58	2.94	0.98	6.9		38 50	100	100	0	0.43	4.57	4.14	0.409	8.94	29.36	29.36	0.44	5.47	5.03	5.03	5.03	5.03	5.03	5.03	5.03	26.30 k111a1
k111a2 k111a3	2.83 3.04	3.44	1.65 2.02	7.4 10.0		12	100	100	0	1.06 1.28	7.62	3.12 6.34	0.053	1.86 0.36	47.84 11.94	47.84 12.30	1.07 1.28	4.29 7.62	3.22 6.34	35.20 k111a2 4.80 k111a3						
k111a4	1.95	3.30	1.14	4.7	37		100	90	0	0.98	7.24	6.26	0.070	3.62	27.48	27.48	0.99	7.87	6.88	6.88	6.88	6.88	6.88	6.88	6.88	16.70 k111a4
k112a	3.58	3.12	1.70	17.4	15	43	100	100	0	0.46	3.19	2.73	0.047	1.31	41.49	41.49	0.47	3.26	2.80	2.80	2.80	2.80	2.80	2.80	2.80	20.30 k112a
k116a k120a	1.77 4.43	3.21 5.49	1.68 2.76			57	0	90	0	1.60 1.67	2.80 6.31	1.21 4.64	0.033 0.837	1.88 18.89	54.92 25.41	54.92 25.41	1.60 1.73	2.87 9.20	7.46	7.46	7.46	7.46	7.46	7.46	1.27 7.46	32.40 k116a 24.20 k120a
k120b	3.85	4.40	2.58				0	70	0	2.24	5.25	3.02	0.829	21.50	31.70	31.70	2.34	7.46	5.13	5.13	5.13	5.13	5.13	5.13	5.13	31.30 k120b
k124a	4.32	4.56	2.12	13.7		44	0	90	0	1.25	4.93	3.68	0.672	15.55	28.45	28.45	1.29	6.62	5.33	5.33	5.33	5.33	5.33	5.33	5.33	20.30 k124a
k124b k124c	2.54 1.24	3.40 2.04	1.47 1.17	9.5 8.4		44 54	0	100	0	1.59 1.76	4.12 2.63	2.54 0.87	0.635 0.137	25.00 11.00	18.90 42.50	18.90 42.50	1.67 1.80	7.30 3.07	5.63 1.27	21.60 k124b 26.30 k124c						
k1240	4.90	2.60	1.17	5.8		17	100	100	0	1.76	7.65	6.38	0.137	17.04	0.06	17.10	1.80	7.65	6.38	6.38	6.38	6.38	6.38	6.38	6.38	9.60 k131a1
k131a2	2.15	3.56	1.61	15.8	38	55	100	90	0	0.67	3.38	2.71	0.332	15.43	39.67	39.67	0.71	4.22	3.51	3.51	3.51	3.51	3.51	3.51	3.51	28.30 k131a2
k131b	6.91	6.03	3.36	12.7	18	45	20	80	0	1.92	6.77	4.85	0.514	7.43	37.97	37.97	1.95	7.64	5.69	5.69	5.69	5.69	5.69	5.69	5.69	22.10 k131b
k131c k133a	0.65 5.42	2.11 5.22	1.00 2.74	15.8 12.6			100	100	0	1.06	2.11 4.78	1.04 3.41	0.080 1.746	12.33 32.21	42.87 15.39	42.87 17.58	1.09 1.53	2.50 9.51	7.98	7.98	7.98	7.98	7.98	7.98	7.98	29.70 k131c 22.30 k133a
k140a	5.21	6.16	3.03	11.1	47		0	90	0	4.37	8.45	4.08	1.229	23.61	6.79	20.38	4.46	11.21	6.75	6.75	6.75	6.75	6.75	6.75	6.75	14.00 k140a
k142a	7.29	3.57	1.47	11.6		23	0	40	0	1.49	7.50	6.01	1.228	16.84	6.26	23.10	1.49	7.50	6.01	6.01	6.01	6.01	6.01	6.01	6.01	8.70 k142a
k142b k145a1	4.50 0.83	4.73 1.74	2.03 1.03				100	100 30	0 20	1.59 1.02	4.12 4.38	2.53 3.36	1.014 0.000	22.56 0.00	45.64 0.00	45.64 0.00	1.74 1.02	5.41 4.38	3.67 3.36	3.67 8.35	3.67 7.80	3.67 7.01	3.67 6.53	3.67 6.03	3.67 5.09	30.60 k142b 4.00 k145a1
k145a1	0.28	0.95	0.70	2.1			0	30	21	1.13	5.40	4.26	0.000	0.00	0.00	0.00	1.13	5.40	4.26	10.71	10.00	8.97	8.36	7.71	6.49	6.00 k145a2
k145b	0.69	1.73	0.88	7.4			100		0	0.28	1.60	1.32	0.117	16.92	83.08	83.08	0.31	1.81	1.51	1.51	1.51	1.51	1.51	1.51	1.51	42.00 k145b
k145c k145d	2.16 3.35	3.80 3.42	1.71 1.91	7.0 4.8			50 50	60	0	1.63 1.55	7.17 9.96	5.54 8.40	0.945 0.284	43.75 8.49	9.25 21.51	36.03 30.00	1.71 1.55	9.36 9.96	7.65 8.40	18.00 k145c 8.00 k145d						
k150a	6.25	5.08	2.95	5.5	6	18	0	30	50	3.04	12.52	9.48	0.000	0.00	17.60	17.60	3.04	12.52	9.48	28.68	26.43	23.13	21.21	19.22	15.53	2.10 k150a
k152a	1.91	1.81	0.44	3.7	15	19	0	30	38	0.49	6.98	6.48	0.092	4.81	14.29	19.10	0.49	6.98	6.48	18.50	17.11	15.09	13.91	12.68	10.37	9.60 k152a
k155a k157a	4.17 6.13	6.02 5.56	2.87 2.44	12.1 3.8	19	16 22	0	30	95	1.94 3.01	10.67 15.27	8.73 12.26	0.003	0.06 1.06	16.24 21.04	16.30 22.10	1.94 3.01	10.67 15.27	8.73 12.26	30.29 42.07	27.64 38.42	23.76 33.08	21.54 30.02	19.26 26.87	15.10 21.12	5.00 k155a 8.20 k157a
k157b	2.31	3.55	1.43			20	0	30	100	1.44	9.87	8.43	0.000	0.00	20.00	20.00	1.44	9.87	8.43	29.59	26.98	23.16	20.98	18.74	14.66	2.80 k157b
k159a	3.56	3.70	2.36	11.4	50	42	10	100	0	3.07	4.23	1.16	0.735	20.67	21.23	21.23	3.21	6.71	3.51	3.51	3.51	3.51	3.51	3.51	3.51	19.70 k159a
k160a k160b	4.76 1.17	6.03 3.36	2.63 1.98	3.4 14.2	48	37 15	0	30	100	3.34 2.51	16.73 6.68	13.40 4.17	0.000	0.00	37.40 15.20	37.40 15.20	3.34 2.51	16.73 6.68	13.40 4.17	47.02 6.91	42.88 6.64	36.81 6.29	33.34 6.07	29.77 5.83	23.29 5.36	11.10 k160a 1.90 k160b
k160c	3.32	5.74	2.61	10.8		16	0	30	39	2.89	10.75	7.87	0.000	0.00	16.10	16.10	2.89	10.75	7.87	22.57	20.88	18.40	16.95	15.44	12.61	0.90 k160c
k160d	1.88	3.30	1.94	14.2		1	0	100	0	1.88	6.61	4.73	0.000	0.00	1.00	1.00	1.88	6.61	4.73	4.73	4.73	4.73	4.73	4.73	4.73	0.30 k160d
k166a	6.57	5.25	2.46	9.9		11	0	100	0	3.88	10.42	6.54	0.000	0.00	10.90	10.90	3.88	10.42	6.54	6.54	6.54	6.54	6.54	6.54	6.54	7.20 k166a
k166b k166c	6.00 3.63	6.11 4.14	3.44 1.72	13.0 14.7	48 36	23	0	100	0	4.81 1.55	10.53 6.28	5.72 4.73	0.003	0.04 2.12	6.56 20.98	6.60 20.98	4.81 1.55	10.53 6.70	5.72 5.15	3.50 k166b 12.40 k166c						
k166d	4.45	4.85	2.06	22.3			0	100	0	1.51	6.23	4.72	0.019	0.42	21.78	21.78	1.51	6.31	4.80	4.80	4.80	4.80	4.80	4.80	4.80	10.90 k166d
k166e	2.06	3.10	1.40	19.7		35	0	100	0	1.41	3.49	2.08	0.001	0.02	34.88	34.88	1.41	3.49	2.08	2.08	2.08	2.08	2.08	2.08	2.08	17.60 k166e
k166f k166g	3.35 5.48	3.40 5.80	1.76 3.17			11 42	0	100 30	0 28	3.70 3.91	9.44 11.95	5.74 8.04	0.000	0.00	11.10 41.50		3.70 3.91	9.44 11.95		5.74 21.50	5.74 19.98	5.74 17.77	5.74 16.47	5.74 15.11	5.74 12.53	1.90 k166f 10.80 k166g
k166h	4.02	6.10	3.62				0	30	2	7.01	13.34	6.33	0.000	0.00	25.40	25.40	7.01	13.34	6.33	9.62	9.30	8.91	8.66	8.39	7.86	1.90 k166h
k172a	7.01	7.18	3.61	5.7	8	13	0	30	100	3.72	15.75	12.03	0.000	0.00	12.70	12.70	3.72	15.75	12.03	42.23	38.51	33.06	29.94	26.74	20.92	0.80 k172a
I100a1 I100a2	1.26 2.99	3.20 3.93	1.70 1.72				0	10 30	10 70	1.04 2.52	6.98 13.53	5.94 11.00	0.000 0.002	0.00 0.05	66.00 18.95	66.00 19.00	1.04 2.52	6.98 13.53	5.94 11.00	12.73 35.79	12.02 32.81	11.00 28.44	10.39 25.93	9.74 23.33	8.47 18.55	31.00 1100a1 7.00 1100a2
1100a2 1100b	4.02	5.64	2.42				0	40	10	3.60	13.30	9.70	0.002	3.30	30.70		3.60	13.30	9.70	20.80	19.63	17.98	16.97	15.91	13.83	14.00 1100b
I100c	4.24	3.98	1.87				0	30	0	2.47	9.40	6.93	0.000	0.00	9.00	9.00	2.47	9.40		6.93	6.93	6.93	6.93	6.93	6.93	2.00 I100c
I100d I100e	5.60 6.69	4.89 5.65	2.48 2.66				0	30	0	2.75 2.97	9.73	6.98 11.62	0.417 0.827	7.45 12.36	14.55 20.64	22.00 33.00	2.75 2.97	9.73 14.59	6.98 11.62	7.00 1100d 9.20 1100e						
I100f	5.26	5.79	2.81	4.10	13	49.00	0	40	0	3.16	15.22	12.06	0.678	12.89	36.11	49.00	3.16	15.22	12.06	12.06	12.06	12.06	12.06	12.06	12.06	23.40 1100f
I112a	6.66	5.70	3.56	18.70	38	21.00	0	30	4	2.96	8.81	5.85	0.259	3.89	17.11	21.00	2.96	8.81	5.85	10.31	9.86	9.26	8.89	8.50	7.71	5.00 I112a
I114b	4.82	5.40	2.13	10.66	16.66	28.00	0	40	40	1.48	10.34	8.86	0.000	0.00	28.00	28.00	1.48	10.34	8.86	25.56	23.63	20.81	19.16	17.44	14.24	7.00 I114b
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