

CUHP INPUT

Summary of CUHP Input Parameters (Version 2.0.0)

Catchment Name/ID	SWMM Node/ID	Raingage Name/ID	Area (sq.mi.)	Dist. to Centroid (miles)	Length (miles)	Slope (ft./ft.)	Percent Imperv.	Depression Storage		Horton's Infiltration Parameters			DCIA Level and Fractions			
								Pervious (inches)	Imperv. (inches)	Initial Rate (in./hr.)	Final Rate (in./hr.)	Decay Coeff. (1/sec.)	DCIA Level	Dir. Con'ct Imperv. Fraction	Receiv. Perv. Fraction	Percent Eff. Imperv.
AV500		2YR	0.143	0.324	0.769	0.035	20.0	0.40	0.10	3.55	0.54	0.0018	0.00	0.40	0.13	17.00
AV510		2YR	0.026	0.151	0.255	0.022	20.0	0.40	0.10	4.30	0.59	0.0018	0.00	0.40	0.13	16.66
AV515		2YR	0.040	0.150	0.346	0.049	20.0	0.40	0.10	4.33	0.59	0.0018	0.00	0.40	0.13	16.65
AV520		2YR	0.122	0.310	0.730	0.049	20.0	0.40	0.10	4.04	0.57	0.0018	0.00	0.40	0.13	16.79
AV525		2YR	0.047	0.530	0.874	0.029	20.0	0.40	0.10	4.37	0.59	0.0018	0.00	0.40	0.13	16.64
AV600		2YR	0.151	0.284	0.551	0.060	20.0	0.40	0.10	3.02	0.50	0.0018	0.00	0.40	0.13	17.26
AV700		2YR	0.054	0.255	0.473	0.030	20.0	0.40	0.10	4.50	0.60	0.0018	0.00	0.40	0.13	16.58
AV705		2YR	0.376	0.692	1.189	0.060	20.0	0.40	0.10	3.13	0.51	0.0018	0.00	0.40	0.13	17.20
AV800		2YR	1.364	1.381	3.162	0.060	20.0	0.40	0.10	3.47	0.53	0.0018	0.00	0.40	0.13	17.06
AV805		2YR	0.500	0.658	1.288	0.060	20.0	0.40	0.10	3.01	0.50	0.0018	0.00	0.40	0.13	17.27
AV900		2YR	0.082	0.208	0.445	0.060	20.0	0.40	0.10	3.03	0.50	0.0018	0.00	0.40	0.13	17.26
AV905		2YR	0.080	0.369	0.697	0.060	20.0	0.40	0.10	3.04	0.50	0.0018	0.00	0.40	0.13	17.26
E100		2YR	0.068	0.194	0.385	0.060	20.0	0.40	0.10	3.61	0.54	0.0018	0.00	0.40	0.13	16.99
E105		2YR	0.029	0.106	0.287	0.057	20.0	0.40	0.10	3.52	0.53	0.0018	0.00	0.40	0.13	17.04
E110		2YR	0.383	0.412	1.152	0.060	20.0	0.40	0.10	3.19	0.51	0.0018	0.00	0.40	0.13	17.19
E115		2YR	0.060	0.197	0.422	0.060	20.0	0.40	0.10	3.16	0.51	0.0018	0.00	0.40	0.13	17.20
E120		2YR	0.027	0.182	0.387	0.060	20.0	0.40	0.10	3.15	0.51	0.0018	0.00	0.40	0.13	17.20
E200		2YR	0.044	0.257	0.498	0.060	20.0	0.40	0.10	4.07	0.57	0.0018	0.00	0.40	0.13	16.78
E205		2YR	0.043	0.238	0.410	0.059	20.0	0.40	0.10	4.50	0.60	0.0018	0.00	0.40	0.13	16.58
E300		2YR	0.297	0.634	1.149	0.060	20.0	0.40	0.10	3.18	0.51	0.0018	0.00	0.40	0.13	17.19
E305		2YR	0.141	0.386	0.697	0.060	20.0	0.40	0.10	3.30	0.52	0.0018	0.00	0.40	0.13	17.13

CUHP OUTPUT
2-YEAR

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
AV500		0.115	0.153	40.2	5.03	20.9	3.56	8.4	107	331,782	0.17	58,029	41.0	13	58,028	0.14
AV510		0.115	0.071	39.6	2.47	20.6	1.74	4.1	20	60,149	0.17	10,059	40.0	2	10,060	0.14
AV515		0.115	0.087	31.0	2.37	16.1	1.67	3.9	39	93,255	0.17	15,584	36.0	4	15,584	0.17
AV520		0.115	0.143	38.1	4.48	19.8	3.17	7.5	96	283,140	0.17	48,170	41.0	11	48,169	0.15
AV525		0.115	0.093	93.5	7.00	48.6	4.95	11.7	15	109,481	0.17	18,276	59.0	2	18,276	0.07
AV600		0.114	0.157	27.4	3.62	14.3	2.55	6.0	166	351,747	0.19	66,563	39.0	19	66,562	0.20
AV700		0.115	0.099	45.8	3.78	23.8	2.67	6.3	35	124,436	0.17	20,593	42.0	4	20,593	0.12
AV705		0.114	0.211	45.4	7.66	23.6	5.41	12.8	249	874,576	0.18	159,143	45.0	33	159,138	0.14
AV800		0.114	0.311	68.8	16.73	35.8	11.82	27.9	595	3,168,083	0.18	557,981	61.0	84	557,973	0.10
AV805		0.114	0.230	42.2	7.76	22.0	5.48	12.9	356	1,162,689	0.19	220,330	45.0	48	220,329	0.15
AV900		0.114	0.120	28.0	2.88	14.6	2.03	4.8	88	191,555	0.19	36,198	38.0	10	36,194	0.20
AV905		0.114	0.118	46.3	4.51	24.1	3.19	7.5	52	186,473	0.19	35,188	43.0	7	35,188	0.14
E100		0.115	0.110	27.7	2.64	14.4	1.86	4.4	74	157,724	0.17	27,544	36.0	8	27,544	0.19
E105		0.115	0.075	26.7	1.84	13.9	1.30	3.1	33	67,591	0.18	11,890	35.0	4	11,888	0.19
E110		0.114	0.212	34.6	5.95	18.0	4.20	9.9	332	890,439	0.18	160,734	41.0	41	160,732	0.17
E115		0.114	0.103	30.8	2.75	16.0	1.94	4.6	58	138,521	0.18	25,105	37.0	7	25,104	0.18
E120		0.114	0.072	40.9	2.56	21.3	1.81	4.3	20	61,928	0.18	11,239	41.0	2	11,239	0.14
E200		0.115	0.090	43.6	3.33	22.6	2.35	5.5	30	102,257	0.17	17,383	41.0	4	17,383	0.13
E205		0.115	0.090	38.8	2.98	20.2	2.10	5.0	33	100,478	0.17	16,628	40.0	4	16,627	0.14
E300		0.114	0.197	45.9	7.24	23.9	5.12	12.1	194	689,301	0.18	124,593	45.0	25	124,589	0.13
E305		0.114	0.153	36.8	4.61	19.1	3.26	7.7	115	328,152	0.18	58,396	40.0	14	58,396	0.16

CUHP OUTPUT
5-YEAR

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
AV500		0.113	0.153	39.9	4.99	20.8	3.53	8.3	107	331,782	0.47	155,650	41.0	37	155,649	0.40
AV510		0.114	0.071	39.3	2.45	20.5	1.73	4.1	20	60,149	0.41	24,951	38.0	6	24,952	0.35
AV515		0.114	0.086	30.8	2.34	16.0	1.66	3.9	39	93,255	0.41	38,598	36.0	11	38,597	0.43
AV520		0.114	0.143	37.8	4.44	19.7	3.14	7.4	97	283,140	0.43	122,935	40.0	30	122,931	0.39
AV525		0.114	0.093	92.8	6.93	48.3	4.90	11.5	15	109,481	0.41	45,178	56.0	5	45,178	0.17
AV600		0.113	0.157	27.3	3.59	14.2	2.53	6.0	167	351,747	0.52	182,669	37.0	57	182,671	0.59
AV700		0.114	0.099	45.5	3.74	23.7	2.65	6.2	35	124,436	0.40	50,237	41.0	11	50,237	0.31
AV705		0.113	0.211	45.1	7.60	23.5	5.37	12.7	250	874,576	0.51	442,840	45.0	95	442,836	0.39
AV800		0.113	0.310	68.4	16.58	35.6	11.71	27.6	598	3,168,083	0.48	1,515,916	60.0	235	1,515,914	0.27
AV805		0.113	0.229	42.0	7.69	21.8	5.44	12.8	358	1,162,689	0.52	604,295	44.0	137	604,287	0.43
AV900		0.113	0.119	27.9	2.86	14.5	2.02	4.8	89	191,555	0.52	99,398	36.0	30	99,388	0.58
AV905		0.113	0.118	46.1	4.47	24.0	3.16	7.5	52	186,473	0.52	96,683	42.0	20	96,682	0.39
E100		0.114	0.109	27.5	2.61	14.3	1.85	4.4	74	157,724	0.47	73,629	36.0	23	73,629	0.53
E105		0.113	0.075	26.5	1.82	13.8	1.29	3.0	33	67,591	0.48	32,202	35.0	10	32,198	0.55
E110		0.113	0.212	34.4	5.90	17.9	4.17	9.8	334	890,439	0.50	448,633	41.0	120	448,629	0.49
E115		0.113	0.103	30.6	2.73	15.9	1.93	4.5	58	138,521	0.51	69,966	37.0	20	69,965	0.52
E120		0.113	0.072	40.6	2.54	21.1	1.80	4.2	20	61,928	0.51	31,305	40.0	7	31,306	0.42
E200		0.114	0.090	43.3	3.29	22.5	2.33	5.5	31	102,257	0.43	44,293	41.0	10	44,293	0.34
E205		0.114	0.089	38.5	2.95	20.0	2.08	4.9	34	100,478	0.40	40,565	38.0	10	40,562	0.35
E300		0.113	0.196	45.7	7.18	23.8	5.07	12.0	195	689,301	0.50	347,582	45.0	74	347,578	0.39
E305		0.113	0.152	36.5	4.57	19.0	3.23	7.6	116	328,152	0.49	161,321	40.0	41	161,322	0.45

CUHP OUTPUT
10-YEAR

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
AV500		0.113	0.153	39.8	4.97	20.7	3.51	8.3	108	331,782	0.71	236,910	41.0	52	236,906	0.57
AV510		0.113	0.071	39.2	2.44	20.4	1.72	4.1	20	60,149	0.64	38,422	38.0	9	38,423	0.52
AV515		0.113	0.086	30.7	2.33	16.0	1.65	3.9	39	93,255	0.64	59,463	36.0	16	59,462	0.63
AV520		0.113	0.142	37.7	4.42	19.6	3.12	7.4	97	283,140	0.67	188,710	40.0	44	188,708	0.56
AV525		0.113	0.093	92.6	6.90	48.1	4.88	11.5	15	109,481	0.64	69,642	59.0	8	69,642	0.25
AV600		0.113	0.157	27.2	3.57	14.1	2.53	6.0	167	351,747	0.77	272,000	36.0	79	272,000	0.82
AV700		0.113	0.098	45.4	3.73	23.6	2.63	6.2	35	124,436	0.62	77,486	41.0	16	77,486	0.45
AV705		0.113	0.210	45.0	7.57	23.4	5.35	12.6	251	874,576	0.76	663,856	45.0	133	663,850	0.55
AV800		0.113	0.310	68.2	16.51	35.5	11.67	27.5	600	3,168,083	0.73	2,301,411	61.0	338	2,301,397	0.39
AV805		0.113	0.229	41.9	7.67	21.8	5.42	12.8	359	1,162,689	0.77	899,575	44.0	191	899,550	0.59
AV900		0.113	0.119	27.8	2.85	14.5	2.01	4.7	89	191,555	0.77	148,046	36.0	42	148,029	0.80
AV905		0.113	0.118	46.0	4.46	23.9	3.15	7.4	52	186,473	0.77	144,040	43.0	28	144,039	0.54
E100		0.113	0.109	27.5	2.61	14.3	1.84	4.3	74	157,724	0.71	112,226	35.0	33	112,226	0.75
E105		0.113	0.075	26.4	1.82	13.7	1.28	3.0	33	67,591	0.72	48,959	35.0	15	48,953	0.78
E110		0.113	0.211	34.3	5.88	17.9	4.15	9.8	335	890,439	0.76	673,656	40.0	167	673,647	0.68
E115		0.113	0.103	30.6	2.72	15.9	1.92	4.5	59	138,521	0.76	104,971	36.0	28	104,969	0.73
E120		0.113	0.072	40.5	2.53	21.1	1.79	4.2	20	61,928	0.76	46,955	39.0	10	46,957	0.58
E200		0.113	0.090	43.1	3.28	22.4	2.32	5.5	31	102,257	0.67	68,031	41.0	14	68,030	0.50
E205		0.113	0.089	38.4	2.93	20.0	2.07	4.9	34	100,478	0.62	62,567	38.0	14	62,563	0.52
E300		0.113	0.196	45.6	7.15	23.7	5.05	11.9	195	689,301	0.76	521,776	45.0	103	521,767	0.54
E305		0.113	0.152	36.4	4.55	19.0	3.22	7.6	116	328,152	0.74	243,683	40.0	57	243,685	0.63

CUHP OUTPUT
50-YEAR

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
AV500		0.112	0.152	39.6	4.94	20.6	3.49	8.2	108	331,782	1.46	482,767	47.0	112	482,760	1.22
AV510		0.113	0.071	39.0	2.42	20.3	1.71	4.0	20	60,149	1.39	83,320	44.0	19	83,323	1.17
AV515		0.113	0.086	30.5	2.32	15.9	1.64	3.9	39	93,255	1.38	129,096	41.0	36	129,086	1.41
AV520		0.112	0.142	37.5	4.39	19.5	3.10	7.3	97	283,140	1.41	399,533	45.0	97	399,536	1.24
AV525		0.113	0.093	92.1	6.85	47.9	4.84	11.4	15	109,481	1.38	151,428	65.0	18	151,428	0.60
AV600		0.112	0.156	27.1	3.56	14.1	2.51	5.9	168	351,747	1.52	532,914	42.0	161	532,913	1.66
AV700		0.113	0.098	45.2	3.70	23.5	2.62	6.2	36	124,436	1.37	170,550	49.0	36	170,548	1.05
AV705		0.112	0.210	44.8	7.52	23.3	5.32	12.5	252	874,576	1.50	1,312,011	51.0	280	1,312,003	1.16
AV800		0.112	0.309	67.9	16.41	35.3	11.60	27.4	603	3,168,083	1.47	4,648,010	66.0	738	4,647,936	0.85
AV805		0.112	0.229	41.7	7.62	21.7	5.39	12.7	360	1,162,689	1.52	1,762,026	50.0	396	1,761,947	1.24
AV900		0.112	0.119	27.7	2.83	14.4	2.00	4.7	89	191,555	1.51	290,134	41.0	86	290,103	1.62
AV905		0.112	0.118	45.8	4.43	23.8	3.13	7.4	53	186,473	1.51	282,357	50.0	58	282,354	1.13
E100		0.112	0.109	27.3	2.59	14.2	1.83	4.3	75	157,724	1.45	229,132	41.0	69	229,128	1.59
E105		0.112	0.075	26.3	1.81	13.7	1.28	3.0	33	67,591	1.47	99,033	40.0	30	99,021	1.63
E110		0.112	0.211	34.2	5.84	17.8	4.13	9.7	336	890,439	1.50	1,333,533	46.0	346	1,333,521	1.41
E115		0.112	0.103	30.4	2.70	15.8	1.91	4.5	59	138,521	1.50	207,628	42.0	57	207,621	1.51
E120		0.112	0.072	40.3	2.52	21.0	1.78	4.2	20	61,928	1.50	92,849	45.0	21	92,852	1.21
E200		0.112	0.090	42.9	3.26	22.3	2.31	5.4	31	102,257	1.41	144,193	47.0	31	144,192	1.11
E205		0.113	0.089	38.2	2.92	19.9	2.06	4.9	34	100,478	1.37	137,713	44.0	33	137,703	1.18
E300		0.112	0.196	45.4	7.11	23.6	5.02	11.9	196	689,301	1.50	1,032,599	51.0	217	1,032,578	1.14
E305		0.112	0.152	36.3	4.53	18.9	3.20	7.5	117	328,152	1.48	486,642	45.0	120	486,636	1.32

CUHP OUTPUT
100-YEAR

Summary of Unit Hydrograph Parameters Used By Program and Calculated Results (Version 2.0.0)

Catchment Name/ID	User Comment for Catchment	Unit Hydrograph Parameters and Results									Excess Precip.		Storm Hydrograph			
		CT	Cp	W50 (min.)	W50 Before Peak	W75 (min.)	W75 Before Peak	Time to Peak (min.)	Peak (cfs)	Volume (c.f)	Excess (inches)	Excess (c.f.)	Time to Peak (min.)	Peak Flow (cfs)	Total Volume (c.f.)	Runoff per Unit Area (cfs/acre)
AV500		0.112	0.152	39.6	4.93	20.6	3.49	8.2	108	331,782	1.83	608,777	48.0	139	608,770	1.52
AV510		0.112	0.071	39.0	2.42	20.3	1.71	4.0	20	60,149	1.76	106,108	46.0	24	106,112	1.47
AV515		0.112	0.086	30.5	2.32	15.8	1.64	3.9	40	93,255	1.76	164,420	42.0	45	164,407	1.75
AV520		0.112	0.142	37.5	4.38	19.5	3.10	7.3	98	283,140	1.79	506,880	47.0	121	506,883	1.55
AV525		0.112	0.093	92.0	6.84	47.8	4.83	11.4	15	109,481	1.76	192,889	68.0	24	192,890	0.78
AV600		0.112	0.156	27.1	3.55	14.1	2.51	5.9	168	351,747	1.89	665,948	42.0	197	665,952	2.03
AV700		0.112	0.098	45.1	3.70	23.4	2.61	6.2	36	124,436	1.75	217,650	49.0	45	217,648	1.32
AV705		0.112	0.210	44.7	7.51	23.3	5.31	12.5	252	874,576	1.88	1,643,799	52.0	347	1,643,800	1.44
AV800		0.112	0.309	67.8	16.38	35.2	11.57	27.3	604	3,168,083	1.85	5,851,739	68.0	936	5,851,640	1.07
AV805		0.112	0.229	41.6	7.61	21.7	5.38	12.7	361	1,162,689	1.89	2,201,765	51.0	491	2,201,693	1.53
AV900		0.112	0.119	27.7	2.83	14.4	2.00	4.7	89	191,555	1.89	362,582	42.0	105	362,540	1.98
AV905		0.112	0.118	45.7	4.43	23.8	3.13	7.4	53	186,473	1.89	352,883	50.0	72	352,878	1.40
E100		0.112	0.109	27.3	2.59	14.2	1.83	4.3	75	157,724	1.83	289,041	41.0	85	289,040	1.95
E105		0.112	0.074	26.3	1.80	13.7	1.27	3.0	33	67,591	1.84	124,704	41.0	37	124,689	2.00
E110		0.112	0.211	34.1	5.83	17.8	4.12	9.7	337	890,439	1.88	1,671,341	47.0	427	1,671,320	1.74
E115		0.112	0.103	30.4	2.70	15.8	1.91	4.5	59	138,521	1.88	260,178	42.0	70	260,171	1.84
E120		0.112	0.072	40.3	2.52	21.0	1.78	4.2	20	61,928	1.88	116,343	46.0	26	116,345	1.51
E200		0.112	0.090	42.9	3.26	22.3	2.30	5.4	31	102,257	1.79	182,955	48.0	39	182,952	1.39
E205		0.112	0.089	38.1	2.91	19.8	2.06	4.8	34	100,478	1.75	175,746	46.0	41	175,731	1.49
E300		0.112	0.195	45.3	7.10	23.6	5.02	11.8	197	689,301	1.88	1,294,100	52.0	270	1,294,076	1.42
E305		0.112	0.152	36.2	4.52	18.8	3.19	7.5	117	328,152	1.86	611,434	46.0	148	611,422	1.64