

TABLE 1
Summary of Drainage Area Changes
(Subwatershed-Level)

Subwatershed	Effective Area (acres)	Area Added (acres)	Area Removed (acres)	Net Change in Area (acres)	Net Change in Area (%)
U100-00-00	15,910	505	2,812	-2,307	-15%
U101-00-00	24,819	851	1,413	-562	-2%
U102-00-00	21,375	2,692	1,069	1,623	8%
U102-01-00	1,939	32	99	-67	-3%
U106-00-00	11,649	1,148	9	1,139	10%
U120-00-00	3,970	611	1,260	-649	-16%
W167-01-00	6,898	3	3	0	0%

Note:

1. Drainage area changes ignore areas within the Addicks Reservoir (except U120-00-00).
2. For U101-00-00, drainage area calculations do not account for diversion to Barkers Reservoir.

TABLE 2
Green & Ampt Parameters

Subbasin	Initial Loss (in)	Moisture Deficit	Suction (in)	Conductivity (in/hr)	Impervious (%)
T101_13A	0.318	0.529	5.351	0.068	11.87
T101_13B	0.318	0.529	5.351	0.068	3.31
U100A	0.298	0.53	5.588	0.072	1.23
U100B	0.298	0.53	5.588	0.072	15.75
U100C	0.298	0.53	5.588	0.072	42.55
U100D	0.298	0.53	5.588	0.072	45.3
U100E	0.298	0.53	5.588	0.072	43.67
U100F	0.298	0.53	5.588	0.072	30.36
U100G	0.298	0.53	5.588	0.072	7.95
U101_03A	0.318	0.529	5.351	0.068	34.25
U101_07A	0.318	0.529	5.351	0.068	4.09
U101_07B	0.318	0.529	5.351	0.068	0
U101_07C	0.318	0.529	5.351	0.068	24.91
U101_07D	0.318	0.529	5.351	0.068	0
U101_07E	0.318	0.529	5.351	0.068	31.99
U101_08A	0.318	0.529	5.351	0.068	1.52
U101_08B	0.318	0.529	5.351	0.068	0.21
U101_08C	0.318	0.529	5.351	0.068	1.75
U101_08D	0.318	0.529	5.351	0.068	1.48
U101_08E	0.318	0.529	5.351	0.068	21.16
U101_12A	0.318	0.529	5.351	0.068	3.9
U101A	0.318	0.529	5.351	0.068	3.62
U101B	0.318	0.529	5.351	0.068	4.11
U101C	0.318	0.529	5.351	0.068	7.39
U101D	0.318	0.529	5.351	0.068	42.66
U101E	0.318	0.529	5.351	0.068	41.31
U101F	0.318	0.529	5.351	0.068	29.96
U101G	0.318	0.529	5.351	0.068	8.05
U102_01A	0.228	0.543	5.471	0.063	37.26
U102A	0.228	0.543	5.471	0.063	2.8
U102B	0.228	0.543	5.471	0.063	4.55
U102C	0.228	0.543	5.471	0.063	12.33
U102D	0.228	0.543	5.471	0.063	32.44
U102E	0.228	0.543	5.471	0.063	18.37
U106A	0.309	0.569	5.875	0.189	14.78
U106B	0.309	0.569	5.875	0.189	47.07
U106C	0.309	0.569	5.875	0.189	39.57
U106D	0.309	0.569	5.875	0.189	41.81
U106E	0.309	0.569	5.875	0.189	43.79
U120A	0.298	0.53	5.588	0.072	30.93
W167_01A	0.1	0.412	4.33	0.024	55.84
W167_01B	0.1	0.412	4.33	0.024	35.76
W167C	0.1	0.412	4.33	0.024	8.33
W167D	0.1	0.412	4.33	0.024	4.12

TABLE 3
Impervious Percentages (2008)

Subbasin Name	Subbasin Area (acres)	Land Cover Area (2008)							Difference		Impervious Percent (2008) IMP
		Water (acres)	Built-up (acres)	Open Soil (acres)	Grass (acres)	Brush (acres)	Trees (acres)	Total (acres)	Area (acres)	Percent (%)	
T101_13A	950.22	3.21	109.49	14.31	720.39	37.42	64.54	949.36	-0.86	-0.09%	11.87
T101_13B	290.54	0.00	9.61	19.84	258.10	1.35	1.30	290.19	-0.34	-0.12%	3.31
U100A	4035.26	6.44	43.35	135.97	3816.58	17.90	13.39	4033.64	-1.62	-0.04%	1.23
U100B	3430.91	56.58	483.75	557.47	2207.85	50.61	73.91	3430.18	-0.73	-0.02%	15.75
U100C	1208.30	20.17	494.07	108.03	428.21	52.56	105.38	1208.42	0.12	0.01%	42.55
U100D	1839.00	5.52	827.62	23.92	652.41	102.86	226.68	1839.00	0.00	0.00%	45.30
U100E	2094.89	35.35	879.53	63.83	730.86	91.25	294.05	2094.87	-0.02	0.00%	43.67
U100F	1639.00	31.02	466.59	8.30	407.46	100.47	625.16	1638.99	-0.01	0.00%	30.36
U100G	3160.87	149.50	101.67	363.96	801.61	232.64	1511.07	3160.45	-0.42	-0.01%	7.95
U101_03A	1479.29	0.98	505.65	44.09	787.28	55.41	85.86	1479.28	0.00	0.00%	34.25
U101_07A	116.14	0.00	4.74	49.09	61.62	0.25	0.18	115.87	-0.27	-0.23%	4.09
U101_07B	150.55	0.00	0.00	85.96	64.53	0.05	0.01	150.55	0.00	0.00%	0.00
U101_07C	6.64	0.00	1.60	1.92	2.01	0.47	0.43	6.44	-0.21	-3.22%	24.91
U101_07D	82.03	0.00	0.00	75.87	6.14	0.00	0.02	82.03	0.00	0.00%	0.00
U101_07E	87.85	0.07	28.03	1.97	41.29	4.96	11.53	87.85	0.00	0.00%	31.99
U101_08A	419.28	0.01	6.38	53.25	353.65	2.50	3.49	419.28	0.01	0.00%	1.52
U101_08B	218.10	0.42	0.04	187.62	29.97	0.05	0.00	218.10	0.00	0.00%	0.21
U101_08C	449.11	0.01	7.83	90.13	327.79	16.84	6.50	449.11	-0.01	0.00%	1.75
U101_08D	85.28	0.00	1.26	12.68	71.17	0.16	0.01	85.28	0.00	0.00%	1.48
U101_08E	173.35	0.53	36.15	11.04	113.13	4.62	7.87	173.35	0.00	0.00%	21.16
U101_12A	1186.80	1.34	44.97	21.39	1078.11	18.95	21.56	1186.32	-0.48	-0.04%	3.90
U101A	4090.43	56.12	91.71	364.48	3479.70	34.53	61.30	4087.83	-2.60	-0.06%	3.62
U101B	3911.56	34.67	126.28	31.60	3443.57	75.53	199.81	3911.46	-0.10	0.00%	4.11
U101C	4020.05	53.58	243.62	96.18	3324.98	102.77	198.59	4019.71	-0.34	-0.01%	7.39
U101D	447.83	7.78	183.27	4.61	223.54	14.11	14.52	447.84	0.00	0.00%	42.66
U101E	2973.24	36.38	1191.26	149.82	1247.76	129.75	216.61	2971.58	-1.66	-0.06%	41.31
U101F	3487.99	15.57	1029.14	165.34	1089.82	240.01	947.52	3487.40	-0.59	-0.02%	29.96
U101G	2241.13	72.32	108.10	115.37	736.03	265.37	943.17	2240.36	-0.77	-0.03%	8.05
U102_01A	1872.10	10.83	686.77	58.76	743.20	100.12	272.42	1872.09	-0.01	0.00%	37.26
U102A	3947.34	35.47	74.97	263.86	3464.99	46.69	59.44	3945.42	-1.92	-0.05%	2.80
U102B	4762.10	162.12	54.56	133.47	4284.31	68.48	59.18	4762.11	0.01	0.00%	4.55
U102C	4475.53	47.22	504.52	366.11	2946.99	149.22	461.47	4475.52	0.00	0.00%	12.33
U102D	4653.59	45.18	1426.93	91.20	1938.81	239.15	796.51	4537.79	-115.80	-2.55%	32.44
U102E	2523.48	30.85	432.76	87.56	1009.45	161.23	801.64	2523.49	0.01	0.00%	18.37
U106A	1914.29	73.29	209.46	597.11	601.81	79.67	352.29	1913.63	-0.67	-0.03%	14.78
U106B	1192.15	122.91	438.12	59.22	474.27	44.17	53.15	1191.84	-0.31	-0.03%	47.07
U106C	3499.36	74.22	1310.15	78.24	1711.18	121.28	203.40	3498.47	-0.89	-0.03%	39.57
U106D	2323.24	4.99	966.06	95.30	739.96	120.35	396.07	2322.73	-0.51	-0.02%	41.81
U106E	3225.90	58.88	1353.38	120.43	1176.85	144.22	371.36	3225.13	-0.77	-0.02%	43.79
U120A	3205.81	35.25	992.14	300.70	1720.17	106.70	166.57	3321.53	115.71	3.48%	30.93
W167_01A	1115.65	6.60	615.98	22.35	371.09	33.98	64.94	1114.94	-0.71	-0.06%	55.84
W167_01B	1485.76	58.74	472.47	5.83	420.55	103.94	423.77	1485.30	-0.46	-0.03%	35.76
W167C	3396.17	238.86	43.95	437.93	1395.08	387.33	891.74	3394.88	-1.28	-0.04%	8.33
W167D	901.21	20.29	16.83	10.69	125.07	67.62	660.17	900.69	-0.52	-0.06%	4.12
Totals:	88769.30	1613.25	16624.74	5586.82	49629.37	3627.54	11668.57	88750.29	-19.01	-0.02%	20.55

TABLE 4
Tc & R Parameters

Updated Subbasin	Drainage Area	Drainage Area	Watershed Length	Length to Centroid	Channel Slope	Overland Slope	D	Percent Channel Improvement	Percent Channel Conveyance	Percent Urban Development 2008	Percent Ponding	DLU affected by Detention 2008	Percent Impervious 2008	(TC+R)''	TC''	R''	DLU Minimum	DLU (Detention)
	(acres)	(sq. mi.)	(mi.)	(mi.)	(ft./mi.)	(ft./mi.)		DCI	DCC	DLU	DPP	DET	IMP					
T101_13A	950.22	1.485	2.48	1.52	4.13	4.53	2.46	81	30	29.60	0.00	2.33	11.87	8.34	1.07	7.27	95.43	29.60
T101_13B	290.54	0.454	1.39	0.77	5.89	7.82	2.46	32	50	3.32	0.00	0.63	3.31	4.89	0.62	4.27	46.56	3.32
U100A	4035.26	6.305	5.49	2.18	3.89	2.82	2.46	81	10	1.41	0.00	0.05	1.23	14.94	1.77	13.17	446.65	1.41
U100B	3430.91	5.361	4.33	2.01	6.65	4.79	2.46	92	60	19.08	0.00	18.24	15.75	10.45	1.07	9.39	36.04	19.08
U100C	1208.30	1.888	2.75	1.45	9.32	11.63	2.46	78	100	78.55	0.00	28.15	42.54	3.26	0.63	2.62	17.59	50.40
U100D	1839.00	2.873	2.51	1.18	2.29	6.62	2.46	100	100	86.10	0.00	8.96	45.30	3.75	0.80	2.96	17.59	77.14
U100E	2094.89	3.273	3.60	1.49	2.27	10.65	2.46	100	90	76.60	0.00	10.58	43.67	5.98	1.08	4.90	20.39	66.02
U100F	1639.00	2.561	2.95	0.95	2.53	4.45	2.46	74	40	64.94	0.00	14.00	30.36	11.22	0.80	10.42	63.71	63.71
U100G	3160.87	4.939	7.19	3.85	1.19	8.22	2.46	37	40	16.80	0.00	2.02	7.95	27.45	7.57	19.88	63.71	16.80
U101_03A	1479.29	2.311	4.10	1.93	10.12	10.62	2.46	80	100	61.69	0.00	38.49	34.25	7.10	0.88	6.21	17.59	23.20
U101_07A	116.14	0.181	1.27	0.38	4.62	6.61	2.46	89	50	6.57	0.00	0.68	4.09	5.00	0.24	4.76	46.56	6.57
U101_07B	150.55	0.235	1.02	0.27	4.24	1.32	2.46	0	90	0.00	0.00	0.00	0.00	4.42	0.29	4.13	20.39	0.00
U101_07C	6.64	0.010	0.70	0.27	5.45	3.68	2.46	100	100	50.69	0.00	4.32	24.91	1.58	0.12	1.46	17.59	46.37
U101_07D	82.03	0.128	0.50	0.24	3.20	8.00	2.46	100	90	0.00	0.00	8.98	0.00	2.95	0.17	2.78	20.39	0.00
U101_07E	87.85	0.137	1.24	0.70	10.12	11.00	2.46	77	100	79.57	0.00	11.98	31.99	1.48	0.27	1.21	17.59	67.59
U101_08A	419.28	0.655	1.43	0.57	4.02	3.91	2.46	14	100	4.50	0.00	3.51	1.52	5.71	0.60	5.11	17.59	4.50
U101_08B	218.10	0.341	0.81	0.35	5.34	0.14	2.46	96	100	2.04	0.00	2.25	0.21	3.46	0.19	3.27	17.59	2.04
U101_08C	449.11	0.702	1.85	0.97	3.18	8.25	2.46	26	100	8.31	0.00	7.57	1.75	7.44	1.12	6.32	17.59	8.31
U101_08D	85.28	0.133	0.72	0.48	3.57	3.60	2.46	36	100	12.82	0.00	13.24	1.48	3.67	0.47	3.20	17.59	12.82
U101_08E	173.35	0.271	1.13	0.54	7.37	6.30	2.46	99	100	49.10	0.00	34.21	21.16	3.85	0.24	3.62	17.59	17.59
U101_12A	1186.80	1.854	2.92	1.28	5.15	2.77	2.46	66	40	7.44	0.00	0.38	3.90	8.66	0.94	7.72	63.71	7.44
U101A	4090.43	6.391	5.72	2.61	5.96	3.14	2.46	83	10	8.18	0.00	4.54	3.62	13.23	1.65	11.58	446.65	8.18
U101B	3911.56	6.112	4.82	2.05	5.51	6.33	2.46	0	30	9.38	0.00	3.72	4.11	12.05	2.09	9.95	95.43	9.38
U101C	4020.05	6.281	6.28	2.61	8.13	8.02	2.46	80	70	15.38	0.00	7.62	7.39	12.66	1.40	11.26	29.03	15.38
U101D	447.83	0.700	1.28	0.63	2.74	12.47	2.46	100	100	85.09	0.00	41.22	42.66	3.21	0.43	2.78	17.59	43.87
U101E	2973.24	4.646	4.21	2.17	3.54	18.58	2.46	100	90	66.39	0.00	21.99	41.31	7.47	1.38	6.09	20.39	44.40
U101F	3487.99	5.450	4.74	2.62	4.25	6.99	2.46	47	40	58.63	0.00	22.79	29.96	13.05	2.18	10.87	63.71	58.63
U101G	2241.13	3.502	4.91	2.71	2.91	1.67	2.46	16	60	9.03	0.00	4.92	8.05	15.29	3.67	11.62	36.04	9.03
U102_01A	1872.10	2.925	3.36	1.47	10.45	11.81	2.46	90	90	78.19	0.00	16.11	37.26	3.46	0.53	2.94	20.39	62.08
U102A	3947.34	6.168	4.62	1.71	2.32	2.78	2.46	52	30	5.36	0.00	2.23	2.80	15.87	2.13	13.74	95.43	5.36
U102B	4762.10	7.441	5.07	2.28	4.84	4.41	2.46	50	40	4.24	0.00	1.03	4.55	13.07	1.98	11.09	63.71	4.24
U102C	4475.53	6.993	5.43	1.73	5.00	5.56	2.46	100	70	24.87	0.00	7.69	12.33	13.56	0.97	12.59	29.03	24.87
U102D	4653.59	7.271	6.58	3.47	4.80	13.21	2.46	92	90	59.63	0.00	16.57	32.44	9.39	2.09	7.30	20.39	43.06
U102E	2523.48	3.943	5.68	2.83	2.52	8.18	2.46	39	20	41.04	0.00	1.85	18.37	17.83	3.43	14.41	168.69	41.04
U106A	1914.29	2.991	2.67	1.37	1.07	5.99	2.46	53	60	33.39	0.00	43.87	14.78	14.16	2.35	11.82	36.04	33.39
U106B	1192.15	1.863	2.87	0.94	4.61	7.41	2.46	100	50	90.55	0.00	86.05	47.07	8.87	0.49	8.38	46.56	46.56
U106C	3499.36	5.468	4.44	1.61	8.53	6.25	2.46	100	60	87.18	0.00	49.40	39.57	9.39	0.65	8.74	36.04	37.78
U106D	2323.24	3.630	3.23	1.10	8.35	5.74	2.46	100	100	88.12	0.00	24.83	41.81	3.25	0.40	2.85	17.59	63.29
U106E	3225.90	5.040	5.88	2.04	4.18	7.73	2.46	100	90	86.39	0.00	24.81	43.79	7.14	1.11	6.03	20.39	61.58
U120A	3205.81	5.009	5.53	2.75	7.61	10.05	2.46	100	90	54.55	0.00	28.97	30.88	10.04	1.27	8.77	20.39	25.58
W167_01A	1115.65	1.743	2.11	0.79	3.06	7.50	2.46	93	100	81.60	0.00	39.80	55.84	4.54	0.55	3.99	17.59	41.80
W167_01B	1485.76	2.321	4.01	2.22	1.97	5.43	2.46	71	80	65.23	0.00	64.59	35.76	15.07	2.59	12.48	24.06	24.06
W167C	3396.17	5.307	5.41	3.06	2.91	7.60	2.46	19	40	1.28	0.00	0.21	8.33	16.38	4.18	12.19	63.71	1.28
W167D	901.21	1.408	2.80	0.93	3.54	7.81	2.46	55	10	1.51	0.00	8.77	4.12	9.60	0.88	8.72	446.65	1.51

Totals:	88769.30	138.70						70.907	58.550	38.285	0.000	15.501	20.548		0.1199			
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TABLE 5
Tc & R Length Comparisons
(Effective vs. Updated)

Effective Model								Updated Model								Differences (Updated - Effective)					
Subbasin	Drainage Area	Watershed Length (mi.)	Length to Centroid (mi.)	Channel Slope (ft./mi)	Overland Slope (ft./mi.)	Percent Channel Improvement	Percent Channel Conveyance	Subbasin	Drainage Area	Watershed Length (mi.)	Length to Centroid (mi.)	Channel Slope (ft./mi)	Overland Slope (ft./mi.)	Percent Channel Improvement	Percent Channel Conveyance	Watershed Length (mi.)	Length to Centroid (mi.)	Channel Slope (ft./mi)	Overland Slope (ft./mi.)	Percent Channel Improvement	Percent Channel Conveyance
	(sq. mi.)	L	Lca	S	So	DCI	DCC		(sq. mi.)	L	Lca	S	So	DCI	DCC	L	Lca	S	So	DCI	DCC
U101A	5.74	5.89	1.28	6.05	3.70	80	30	U101A	6.391	5.72	2.61	5.96	3.14	83	10	-0.17	1.33	-0.09	-0.56	3	-20
U101B	1.86	2.81	2.64	5.28	5.28	100	20	U101_12A	1.854	2.92	1.28	5.15	2.77	66	40	0.11	-1.36	-0.13	-2.51	-34	20
U101C	6.59	4.13	2.08	4.62	5.28	0	30	U101B	6.112	4.82	2.05	5.51	6.33	0	30	0.69	-0.03	0.89	1.05	0	0
U101F	4.71	4.07	2.15	3.28	7.39	30	100	U101E	4.646	4.21	2.17	3.54	18.58	100	90	0.14	0.02	0.26	11.19	70	-10
U101G	2.29	4.23	2.04	7.92	7.92	100	100	U101_03A	2.311	4.10	1.93	10.12	10.62	80	100	-0.13	-0.11	2.20	2.70	-20	0
U101H	3.07	2.44	0.57	3.09	10.03	100	50	U101F	5.450	4.74	2.62	4.25	6.99	47	30	2.30	2.05	1.16	-3.04	-53	-20
U101I	6.52	5.89	2.74	5.28	1.58	0	20	U101G	3.502	4.91	2.71	2.91	1.67	16	60	-0.98	-0.03	-2.37	0.09	16	40
U102A	3.94	3.06	1.41	3.17	3.17	0	30	U102A	6.168	4.62	1.71	2.32	2.78	52	30	1.56	0.30	-0.85	-0.39	52	0
U102B	9.40	5.95	3.16	5.77	3.70	0	80	U102B	7.441	5.07	2.28	4.84	4.41	50	30	-0.88	-0.88	-0.93	0.71	50	-50
U102C	4.62	4.09	1.85	6.01	5.81	40	90	U102C	6.993	5.43	1.73	5.00	5.56	100	60	1.34	-0.12	-1.01	-0.25	60	-30
U102D	6.68	6.10	3.38	4.13	5.28	20	80	U102D	7.090	6.58	3.47	4.80	13.21	92	90	0.48	0.09	0.67	7.93	72	10
U102E	3.03	3.81	1.81	3.15	7.92	90	70	U102_01A	2.925	3.36	1.47	10.45	11.81	90	80	-0.45	-0.34	7.30	3.89	0	10
U106B	5.39	4.33	1.51	7.60	6.34	100	100	U106C	5.468	4.44	1.61	8.53	6.25	100	60	0.11	0.10	0.93	-0.09	0	-40
U106C	3.65	3.03	1.09	9.55	6.86	100	100	U106D	3.630	3.23	1.10	8.35	5.74	100	100	0.20	0.01	-1.20	-1.12	0	0
U106D	6.01	6.65	2.61	3.69	4.22	100	100	U106E	5.040	5.88	2.04	4.18	7.73	100	90	-0.77	-0.57	0.49	3.51	0	-10
U120A	6.20	5.86	3.01	5.84	7.39	90	100	U120A	5.190	5.53	2.75	7.61	10.05	100	90	-0.33	-0.26	1.77	2.66	10	-10
U129A	6.96	6.89	3.70	2.89	2.64	0	20	U100A	6.305	5.49	2.18	3.89	2.82	81	10	-1.40	-1.52	1.00	0.18	81	-10
U129B	5.70	4.46	2.55	5.58	3.70	0	20	U100B	5.361	4.33	2.01	6.65	4.79	92	60	-0.13	-0.54	1.07	1.09	92	40
U129E	2.92	2.93	1.32	2.29	8.98	100	90	U100E	3.273	3.60	1.49	2.27	10.65	100	90	0.67	0.17	-0.02	1.67	0	0
U129F	2.06	2.82	1.33	8.45	8.45	40	100	U100F	2.561	2.95	0.95	2.53	4.45	74	40	0.13	-0.38	-5.92	-4.00	34	-60
W167C	5.48	4.76	0.91	3.70	3.70	0	100	W167C	5.307	5.41	3.06	2.91	7.60	19	30	0.65	2.15	-0.79	3.90	19	-70
W167D	1.57	3.39	2.14	5.28	5.28	0	100	W167D	1.408	2.80	0.93	3.54	7.81	55	10	-0.59	-1.21	-1.74	2.53	55	-90
W167E	1.71	3.86	1.85	4.23	5.81	20	60	W167_01A	1.743	2.11	0.79	3.06	7.50	93	100	-1.75	-1.06	-1.17	1.69	73	40
W167F	2.02	2.45	2.47	5.28	5.28	100	100	W167_01B	2.321	4.01	2.22	1.97	5.43	71	80	1.56	-0.25	-3.31	0.15	-29	-20
Totals:	108.12	4.82	2.24	5.00	5.14	42.43	67.33	Totals:	108.490	4.81	2.14	5.04	6.90	72.64	55.04	-0.02	-0.10	0.03	1.76	30.21	-12.30

TABLE 6
Urban Development Percentages (2008)

Subbasin Name	Subbasin Area (acres)	Area by Landuse Type (2008)											Difference		Development Percent (2008) DLU
		GA (acres)	HD (acres)	IC (acres)	RL (acres)	RR (acres)	RS1 (acres)	RS2 (acres)	T (acres)	U (acres)	W (acres)	Total (acres)	Area (acres)	Percent (%)	
T101_13A	950.2	0.0	2.1	6.3	143.3	414.0	60.3	0.0	48.9	255.0	20.4	950.2	0.0	0.00%	29.60
T101_13B	290.5	0.0	0.0	0.0	2.0	271.8	0.2	0.0	3.3	9.0	4.1	290.5	0.0	0.00%	3.32
U100A	4035.3	0.0	0.1	0.0	1.0	3954.6	0.0	0.0	13.5	24.0	42.1	4035.3	0.0	0.00%	1.41
U100B	3430.9	0.7	2.0	36.4	26.2	1324.3	81.2	91.1	189.5	1406.2	273.3	3430.9	0.0	0.00%	19.08
U100C	1208.3	8.0	41.0	32.7	40.7	11.9	458.6	10.2	229.6	238.2	137.5	1208.3	0.0	0.00%	78.55
U100D	1839.0	3.7	192.7	38.5	54.5	56.5	775.4	106.2	364.6	144.2	102.7	1839.0	0.0	0.00%	86.10
U100E	2094.9	0.0	342.8	98.1	63.4	39.4	569.6	5.2	330.1	448.2	198.1	2094.9	0.0	0.00%	76.60
U100F	1639.0	4.5	127.6	5.5	108.0	13.0	450.1	9.0	225.3	554.8	141.0	1638.9	-0.1	0.00%	64.94
U100G	3160.9	928.7	0.0	0.0	0.8	0.0	0.0	0.0	65.9	2165.5	0.0	3160.8	-0.1	0.00%	16.80
U101_03A	1479.3	0.0	89.5	12.7	34.1	385.2	473.5	40.8	224.6	161.0	57.8	1479.3	0.0	0.00%	61.69
U101_07A	116.1	0.0	0.0	0.0	0.0	44.9	0.0	0.0	4.7	63.6	3.0	116.1	0.0	0.00%	6.57
U101_07B	150.5	0.0	0.0	0.0	0.0	126.0	0.0	0.0	0.0	24.5	0.0	150.6	0.0	0.00%	0.00
U101_07C	6.6	0.0	0.0	0.0	0.0	1.6	0.0	0.0	3.4	1.7	0.0	6.6	0.0	0.01%	50.69
U101_07D	82.0	0.0	0.0	0.0	0.0	79.7	0.0	0.0	0.0	2.3	0.0	82.0	0.0	0.00%	0.00
U101_07E	87.8	0.0	6.0	0.0	1.9	14.6	31.6	0.0	15.5	3.3	14.8	87.9	0.0	0.01%	79.57
U101_08A	419.3	0.0	0.0	6.4	0.1	355.2	0.0	0.0	5.3	45.3	7.1	419.3	0.0	0.00%	4.50
U101_08B	218.1	0.0	0.1	0.0	0.0	0.7	0.0	0.0	4.3	212.9	0.1	218.1	0.0	0.00%	2.04
U101_08C	449.1	0.0	0.0	0.0	0.0	316.9	0.0	0.0	5.1	94.9	32.2	449.1	0.0	0.00%	8.31
U101_08D	85.3	0.0	0.0	0.0	0.0	74.3	0.0	0.0	1.6	0.0	9.4	85.3	0.0	0.00%	12.82
U101_08E	173.3	0.0	0.0	0.9	1.2	79.0	41.9	0.0	23.5	9.3	17.7	173.3	0.0	0.00%	49.10
U101_12A	1186.8	2.6	0.0	21.2	23.8	856.0	0.0	62.1	10.8	210.1	0.1	1186.8	0.0	0.00%	7.44
U101A	4090.4	0.0	105.9	83.0	40.4	2297.9	0.0	0.0	67.2	1457.9	38.2	4090.4	0.0	0.00%	8.18
U101B	3911.6	0.0	27.4	2.5	248.1	3024.1	0.1	0.0	37.5	520.5	51.4	3911.6	0.0	0.00%	9.38
U101C	4020.0	41.3	67.5	95.9	111.6	2580.5	89.5	0.0	106.8	800.7	126.2	4020.1	0.0	0.00%	15.38
U101D	447.8	41.5	12.1	0.0	10.7	0.3	183.4	31.8	85.2	29.8	52.9	447.8	0.0	0.00%	85.09
U101E	2973.2	0.0	336.9	210.7	43.5	148.2	659.7	204.1	400.3	749.2	220.7	2973.2	0.0	0.00%	66.39
U101F	3488.0	94.8	402.2	101.8	114.8	8.1	714.6	149.5	428.7	1312.7	160.7	3487.9	0.0	0.00%	58.63
U101G	2241.1	119.0	116.2	0.0	0.0	36.2	0.3	0.0	26.3	1942.9	0.0	2241.0	-0.1	0.00%	9.03
U102_01A	1872.1	17.4	124.8	58.3	208.9	24.4	608.7	91.9	306.2	329.3	102.3	1872.1	0.0	0.00%	78.19
U102A	3947.3	214.8	0.0	25.4	48.6	3173.0	0.0	0.0	15.0	455.4	15.1	3947.3	0.0	0.00%	5.36
U102B	4762.1	0.0	0.0	49.9	3.6	3497.7	0.0	0.0	68.8	1062.4	79.8	4762.1	0.0	0.00%	4.24
U102C	4475.5	12.2	66.7	18.9	30.4	2655.6	475.0	24.9	241.8	688.2	261.8	4475.5	0.0	0.00%	24.87
U102D	4653.6	185.0	147.3	111.9	105.2	335.7	1174.6	139.7	664.4	1379.9	408.4	4652.1	-1.5	-0.03%	59.63
U102E	2523.5	591.7	135.6	82.9	33.2	5.5	262.2	4.8	185.1	1184.1	38.4	2523.5	0.0	0.00%	41.04
U106A	1914.3	721.1	159.2	0.2	7.3	826.7	8.1	0.0	49.3	87.9	54.5	1914.3	0.0	0.00%	33.39
U106B	1192.2	86.8	40.3	8.7	68.8	11.0	425.9	0.0	212.3	58.2	280.0	1192.1	0.0	0.00%	90.55
U106C	3499.4	249.4	549.1	212.4	209.0	26.9	898.8	21.6	582.8	286.1	463.2	3499.3	0.0	0.00%	87.18
U106D	2323.2	5.8	287.8	113.1	119.7	41.3	881.8	78.3	450.9	192.5	151.8	2323.2	0.0	0.00%	88.12
U106E	3225.9	199.7	544.6	330.2	156.3	0.0	806.6	48.6	506.7	315.0	318.1	3225.8	-0.1	0.00%	86.39
U120A	3205.8	5.2	43.4	75.6	48.4	698.1	827.6	92.0	426.0	710.9	280.0	3207.3	1.5	0.05%	54.55
W167_01A	1115.6	0.0	366.4	222.7	73.9	84.4	97.6	13.0	99.9	114.3	43.3	1115.7	0.0	0.00%	81.60
W167_01B	1485.8	9.6	68.6	12.2	187.6	23.5	328.2	0.0	209.5	488.3	158.1	1485.7	0.0	0.00%	65.23
W167C	3396.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.6	3352.5	0.0	3396.1	-0.1	0.00%	1.28
W167D	901.2	0.0	0.0	0.0	0.0	1.0	0.1	0.0	13.5	886.6	0.0	901.2	0.0	0.00%	1.51

Totals: 88769.3 3543.7 4406.2 2075.2 2371.3 27919.7 11385.3 1224.7 6997.2 24479.2 4366.3 88768.8 -0.5 0.00% 38.29

% Urban Development Per Land Use Type										
GA	HD	IC	RL	RR	RS1	RS2	T	U	W	
50	100	100	100	0	100	50	100	0	100	

TABLE 7
Tc & R Area Comparisons
(Effective vs. Updated)

<i>Effective Model</i>						<i>Updated Model</i>						<i>Differences (Updated - Effective)</i>				
<u>Subbasin</u>	<u>Drainage Area</u>	<u>Percent Urban Development</u>	<u>Percent Ponding</u>	<u>DLU affected by Detention</u>	<u>Percent Impervious</u>	<u>Subbasin</u>	<u>Drainage Area</u>	<u>Percent Urban Development</u>	<u>Percent Ponding</u>	<u>DLU affected by Detention 2008</u>	<u>Percent Impervious</u>	<u>Drainage Area</u>	<u>Percent Urban Development</u>	<u>Percent Ponding</u>	<u>DLU affected by Detention</u>	<u>Percent Impervious</u>
	(sq. mi.)	2002 DLU	DPP	DET	2002 IMP		(sq. mi.)	2008 DLU	DPP	DET	2008 IMP	(sq. mi.)	DLU	DPP	DET	IMP
U101A	5.74	6.23	0	0.56	5.89	U101A	6.39	8.18	0	4.54	3.62	0.65	1.95	0	3.98	-2.27
U101B	1.86	2.50	0	0.11	2.04	U101_12A	1.85	7.44	0	0.38	3.90	-0.01	4.94	0	0.27	1.86
U101C	6.59	7.32	0	1.43	4.63	U101B	6.11	9.38	0	3.72	4.11	-0.48	2.06	0	2.29	-0.52
U101F	4.71	39.57	0	6.63	29.42	U101E	4.65	66.39	0	21.99	41.31	-0.06	26.82	0	15.36	11.89
U101G	2.29	35.75	0	11.94	20.62	U101_03A	2.31	61.69	0	38.49	34.25	0.02	25.94	0	26.55	13.63
U101H	3.07	65.70	0	22.11	47.56	U101F	5.45	58.63	0	22.79	29.96	2.38	-7.07	0	0.68	-17.60
U101I	6.52	10.18	0	2.53	7.63	U101G	3.50	9.03	0	4.92	8.05	-3.02	-1.15	0	2.39	0.42
U102A	3.94	2.00	0	0.61	1.77	U102A	6.17	5.36	0	2.23	2.80	2.23	3.36	0	1.62	1.03
U102B	9.40	2.30	0	0.09	2.17	U102B	7.44	4.24	0	1.03	4.55	-1.96	1.94	0	0.94	2.38
U102C	4.62	14.80	0	2.06	13.66	U102C	6.99	24.87	0	7.69	12.33	2.37	10.07	0	5.63	-1.33
U102D	6.68	29.48	0	9.19	20.79	U102D	7.09	59.60	0	16.57	32.44	0.41	30.12	0	7.38	11.65
U102E	3.03	51.64	0	3.16	32.43	U102_01A	2.93	78.19	0	16.11	37.26	-0.11	26.55	0	12.95	4.83
U106B	5.39	71.17	0	22.55	43.12	U106C	5.47	87.18	0	49.40	39.57	0.08	16.01	0	26.85	-3.55
U106C	3.65	72.61	0	13.86	44.00	U106D	3.63	88.12	0	24.83	41.81	-0.02	15.51	0	10.97	-2.19
U106D	6.01	72.46	0	14.79	49.90	U106E	5.04	86.39	0	24.81	43.79	-0.97	13.93	0	10.02	-6.11
U120A	6.20	13.43	0	0.58	9.67	U120A	5.19	54.77	0	28.97	30.93	-1.01	41.34	0	28.39	21.26
U129A	6.96	1.09	0	0.00	0.87	U100A	6.31	1.41	0	0.05	1.23	-0.66	0.32	0	0.05	0.36
U129B	5.70	0.00	0	1.53	0.00	U100B	5.36	19.08	0	18.24	15.75	-0.34	19.08	0	16.71	15.75
U129E	2.92	41.15	0	3.98	30.39	U100E	3.27	76.61	0	10.58	43.67	0.35	35.46	0	6.60	13.28
U129F	2.06	51.47	0	6.14	30.73	U100F	2.56	64.94	0	14.00	30.36	0.50	13.47	0	7.86	-0.37
W167C	5.48	0.01	0	0.00	0.00	W167C	5.31	1.29	0	0.21	8.33	-0.17	1.28	0	0.21	8.33
W167D	1.57	11.94	0	20.82	4.78	W167D	1.41	1.51	0	8.77	4.12	-0.16	-10.43	0	-12.05	-0.66
W167E	1.71	58.51	0	31.10	32.97	W167_01A	1.74	81.60	0	39.80	55.84	0.03	23.09	0	8.70	22.87
W167F	2.02	55.64	0	75.90	43.06	W167_01B	2.32	65.24	0	64.59	35.76	0.30	9.60	0	-11.31	-7.30
Totals:	108.12	25.05	0.00	7.18	17.01	Totals:	108.49	38.37	0.00	15.32	21.08	0.37	13.32	0.00	8.14	4.07

TABLE 8
On-site Detention Percentages

Subbasin	Drainage Area		2002 Detention (Keymap)		New Detention		Total Area Served by Detention		On-site Detention (Updated)
	(acres)	(mi ²)	(acres)	(mi ²)	(acres)	(mi ²)	(acres)	(mi ²)	(%)
T101_13A	950.22	1.485	0.954	0.001	21.210	0.033	22.165	0.035	2.33
T101_13B	290.54	0.454	1.759	0.003	0.060	0.000	1.819	0.003	0.63
U100A	4035.26	6.305	0.000	0.000	1.958	0.003	1.958	0.003	0.05
U100B	3430.91	5.361	59.317	0.093	566.321	0.885	625.638	0.978	18.24
U100C	1208.30	1.888	14.752	0.023	325.389	0.508	340.141	0.531	28.15
U100D	1839.00	2.873	35.220	0.055	129.501	0.202	164.721	0.257	8.96
U100E	2094.89	3.273	69.558	0.109	152.011	0.238	221.569	0.346	10.58
U100F	1639.00	2.561	198.581	0.310	30.872	0.048	229.453	0.359	14.00
U100G	3160.87	4.939	60.433	0.094	3.366	0.005	63.799	0.100	2.02
U101_03A	1479.29	2.311	295.349	0.461	273.977	0.428	569.326	0.890	38.49
U101_07A	116.14	0.181	0.775	0.001	0.018	0.000	0.793	0.001	0.68
U101_07B	150.55	0.235	0.000	0.000	0.000	0.000	0.000	0.000	0.00
U101_07C	6.64	0.010	0.142	0.000	0.145	0.000	0.287	0.000	4.32
U101_07D	82.03	0.128	7.363	0.012	0.000	0.000	7.363	0.012	8.98
U101_07E	87.85	0.137	10.282	0.016	0.239	0.000	10.521	0.016	11.98
U101_08A	419.28	0.655	0.150	0.000	14.565	0.023	14.715	0.023	3.51
U101_08B	218.10	0.341	0.509	0.001	4.402	0.007	4.910	0.008	2.25
U101_08C	449.11	0.702	0.000	0.000	34.001	0.053	34.001	0.053	7.57
U101_08D	85.28	0.133	1.309	0.002	9.981	0.016	11.290	0.018	13.24
U101_08E	173.35	0.271	20.856	0.033	38.444	0.060	59.300	0.093	34.21
U101_12A	1186.80	1.854	0.054	0.000	4.475	0.007	4.530	0.007	0.38
U101A	4090.43	6.391	21.530	0.034	164.345	0.257	185.874	0.290	4.54
U101B	3911.56	6.112	44.656	0.070	100.668	0.157	145.324	0.227	3.72
U101C	4020.05	6.281	59.316	0.093	247.056	0.386	306.372	0.479	7.62
U101D	447.83	0.700	48.979	0.077	135.599	0.212	184.578	0.288	41.22
U101E	2973.24	4.646	192.543	0.301	461.260	0.721	653.804	1.022	21.99
U101F	3487.99	5.450	533.677	0.834	261.240	0.408	794.917	1.242	22.79
U101G	2241.13	3.502	50.439	0.079	59.796	0.093	110.235	0.172	4.92
U102_01A	1872.10	2.925	63.215	0.099	238.330	0.372	301.545	0.471	16.11
U102A	3947.34	6.168	19.867	0.031	68.055	0.106	87.922	0.137	2.23
U102B	4762.10	7.441	1.108	0.002	48.102	0.075	49.210	0.077	1.03
U102C	4475.53	6.993	65.830	0.103	278.400	0.435	344.230	0.538	7.69
U102D	4653.59	7.271	392.589	0.613	359.196	0.561	751.785	1.175	16.15
U102E	2523.48	3.943	23.310	0.036	23.287	0.036	46.597	0.073	1.85
U106A	1914.29	2.991	238.689	0.373	601.155	0.939	839.844	1.312	43.87
U106B	1192.15	1.863	526.827	0.823	499.061	0.780	1025.888	1.603	86.05
U106C	3499.36	5.468	897.083	1.402	831.738	1.300	1728.822	2.701	49.40
U106D	2323.24	3.630	322.771	0.504	254.114	0.397	576.886	0.901	24.83
U106E	3225.90	5.040	630.868	0.986	169.632	0.265	800.500	1.251	24.81
U120A	3205.81	5.009	21.550	0.034	940.641	1.470	962.190	1.503	30.01
W167_01A	1115.65	1.743	240.987	0.377	203.014	0.317	444.001	0.694	39.80
W167_01B	1485.76	2.321	725.031	1.133	234.671	0.367	959.702	1.500	64.59
W167C	3396.17	5.307	0.087	0.000	7.115	0.011	7.202	0.011	0.21
W167D	901.21	1.408	78.811	0.123	0.242	0.000	79.052	0.124	8.77
Totals:	88769.3	138.700	5977.126	9.339	7797.652	12.184	13774.777	21.523	15.52

TABLE 9
Modified Puls Method
(Storage-Discharge)

U1000000_0995_R		U1000000_0823_R		U1000000_0710_R		U1000000_0632_R		U1000000_0494_R		U1000000_0383_R		U1010000_0812_R		U1010000_0639_R	
Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
489.35	387.00	366.59	580.00	78.40	823.00	103.02	1,777.00	362.86	2,122.00	890.10	4,024.00	559.12	1,660.00	304.39	779.00
895.17	774.00	653.08	1,160.00	128.21	1,646.00	166.78	3,554.00	569.93	4,243.00	1,505.52	8,048.00	890.83	3,320.00	717.24	1,558.00
1,224.14	1,161.00	877.59	1,740.00	175.56	2,470.00	220.27	5,331.00	752.12	6,365.00	2,042.09	12,073.00	1,147.32	4,979.00	1,091.38	2,337.00
1,524.42	1,548.00	1,114.22	2,320.00	219.67	3,293.00	275.18	7,108.00	959.69	8,486.00	2,505.42	16,097.00	1,384.41	6,639.00	1,441.82	3,116.00
1,783.19	1,935.00	1,367.26	2,900.00	283.31	4,116.00	352.72	8,885.00	1,296.42	10,608.00	2,959.96	20,121.00	1,590.22	8,299.00	1,801.18	3,895.00
2,034.36	2,322.00	1,620.59	3,480.00	448.28	4,939.00	453.35	10,662.00	1,634.08	12,730.00	3,340.30	24,145.00	1,791.12	9,959.00	2,173.97	4,674.00
2,303.96	2,903.00	1,926.22	4,350.00	806.34	6,174.00	675.34	13,328.00	2,145.37	15,912.00	3,846.38	30,182.00	2,048.43	12,449.00	2,684.20	5,843.00
2,639.15	3,870.00	2,407.87	5,800.00	1,466.23	8,232.00	1,064.21	17,770.00	2,959.85	21,216.00	4,643.16	40,242.00	2,452.59	16,598.00	3,390.57	7,790.00
U1010000_0509_R		U1010000_0469_R		U1010000_0348_R		U1010000_0193_R		U1010700_0090_R		U1010700_0053_R		U1010700_0035_R		U1010700_0001_R	
Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139.67	1,133.00	50.18	1,301.00	176.05	1,660.00	905.90	1,924.00	5.19	25.00	2.07	37.00	5.69	44.00	1.33	26.00
312.01	2,265.00	80.71	2,602.00	282.28	3,320.00	1,511.58	3,848.00	14.34	50.00	5.82	75.00	6.99	88.00	2.15	53.00
530.36	3,398.00	108.99	3,904.00	426.62	4,979.00	2,004.31	5,773.00	31.91	74.00	10.49	112.00	8.29	131.00	2.83	79.00
777.85	4,530.00	138.46	5,205.00	680.51	6,639.00	2,545.79	7,697.00	48.97	99.00	11.94	150.00	10.10	175.00	3.48	106.00
1,023.98	5,663.00	181.77	6,506.00	993.04	8,299.00	3,044.75	9,621.00	56.76	124.00	14.51	187.00	10.99	219.00	4.06	132.00
1,280.00	6,796.00	242.46	7,807.00	1,347.12	9,959.00	3,462.48	11,545.00	67.55	149.00	17.78	224.00	12.05	263.00	4.58	158.00
1,667.47	8,495.00	357.65	9,759.00	1,855.86	12,449.00	4,043.78	14,432.00	89.47	186.00	22.67	281.00	13.94	329.00	5.33	198.00
2,246.73	11,326.00	563.93	13,012.00	2,619.72	16,598.00	5,197.28	19,242.00	129.10	248.00	28.09	374.00	17.30	438.00	6.54	264.00
U1010800_0051_R		U1010800_0034_R		U1010800_0002_R		U1020000_0632_R		U1020000_0465_R		U1020000_0232_R		U1020000_0197_R		U1060000_0301_R	
Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.28	93.00	4.04	156.00	5.13	174.00	1,419.11	913.00	428.71	941.00	342.17	1,360.00	132.55	1,520.00	55.47	196.00
26.19	186.00	8.73	313.00	9.73	348.00	4,003.46	1,826.00	841.93	1,882.00	544.96	2,720.00	233.04	3,040.00	112.56	392.00
46.79	279.00	15.76	469.00	15.49	523.00	5,584.04	2,740.00	1,135.90	2,824.00	740.85	4,080.00	319.59	4,559.00	156.60	588.00
82.49	372.00	26.55	626.00	24.57	697.00	6,770.86	3,653.00	1,431.04	3,765.00	968.00	5,440.00	409.56	6,079.00	184.31	784.00
97.20	465.00	31.14	782.00	38.17	871.00	7,772.68	4,566.00	1,680.50	4,706.00	1,208.84	6,800.00	508.10	7,599.00	228.88	980.00
102.94	558.00	33.66	938.00	47.84	1,045.00	8,733.46	5,479.00	1,960.32	5,647.00	1,481.56	8,160.00	595.68	9,119.00	254.77	1,176.00
110.19	698.00	38.27	1,173.00	58.04	1,307.00	9,876.15	6,849.00	2,434.73	7,059.00	2,194.36	10,200.00	720.64	11,399.00	345.47	1,470.00
121.59	930.00	46.19	1,564.00	73.92	1,742.00	13,753.11	16,438.00	5,679.57	16,942.00	6,382.12	24,480.00	1,383.52	27,356.00	512.50	1,960.00

TABLE 9
Modified Puls Method
(Storage-Discharge)

U1060000_0229_R		U1060000_0177_R		U1060000_0006_R		U2010801_0000_R		U2010701_0000_R		W1670100_0082_R		T1011300_0000_R		U1010800_0112_R	
Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)	Storage (ac-ft)	Discharge (cfs)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44.25	650.00	51.90	1,252.00	269.95	1,788.00	15.49	36.00	5.29	45.00	160.50	445.00	8.98	100.00	0.30	3.90
73.69	1,300.00	82.97	2,503.00	408.51	3,575.00	19.75	72.00	17.58	90.00	304.03	890.00	61.09	300.00	2.04	14.40
128.49	1,951.00	115.06	3,755.00	521.20	5,363.00	24.41	109.00	30.52	134.00	434.19	1,335.00	114.66	500.00	7.20	22.60
213.03	2,601.00	146.26	5,006.00	668.69	7,150.00	29.70	145.00	46.81	179.00	594.09	1,780.00	211.93	1,000.00	16.50	28.80
328.72	3,251.00	178.57	6,258.00	956.96	8,938.00	34.68	181.00	55.14	224.00	684.25	2,225.00	289.25	1,500.00	49.86	100.60
429.20	3,901.00	219.16	7,510.00	1,359.64	10,726.00	38.86	217.00	61.53	269.00	809.23	2,670.00	354.40	2,000.00	73.00	103.20
589.75	4,877.00	339.80	9,387.00	2,103.43	13,407.00	43.46	272.00	68.90	336.00	1,010.06	3,338.00			100.33	106.20
821.20	6,502.00	539.41	12,516.00	3,234.64	17,876.00	47.79	362.00	87.48	448.00	1,405.55	4,450.00			130.63	108.80
														162.92	111.40
														196.70	113.80
														231.50	116.40
														266.30	190.40
														647.00	1,000.00

Shaded values based on previous LOMRs and were not updated as part of this Study.

TABLE 10
Modified Puls Method
(Routing Subreaches)

Reach	Stor-Dis Function	Subreaches*	Initial
T1011300_0000_R	T1011300_0000_R	6	Inflow = Outflow
U1000000_0383_R	U1000000_0383_R	19	Inflow = Outflow
U1000000_0494_R	U1000000_0494_R	13	Inflow = Outflow
U1000000_0632_R	U1000000_0632_R	4	Inflow = Outflow
U1000000_0710_R	U1000000_0710_R	7	Inflow = Outflow
U1000000_0823_R	U1000000_0823_R	1	Inflow = Outflow
U1000000_0995_R	U1000000_0995_R	1	Inflow = Outflow
U1010000_0193_R	U1010000_0193_R	1	Inflow = Outflow
U1010000_0348_R	U1010000_0348_R	9	Inflow = Outflow
U1010000_0469_R	U1010000_0469_R	3	Inflow = Outflow
U1010000_0509_R	U1010000_0509_R	15	Inflow = Outflow
U1010000_0639_R	U1010000_0639_R	1	Inflow = Outflow
U1010000_0812_R	U1010000_0812_R	1	Inflow = Outflow
U1010700_0001_R	U1010700_0001_R	3	Inflow = Outflow
U1010700_0001_R	U1010700_0035_R	1	Inflow = Outflow
U1010700_0053_R	U1010700_0053_R	7	Inflow = Outflow
U1010700_0090_R	U1010700_0090_R	1	Inflow = Outflow
U1010800_0002_R	U1010800_0002_R	3	Inflow = Outflow
U1010800_0034_R	U1010800_0034_R	3	Inflow = Outflow
U1010800_0051_R	U1010800_0051_R	1	Inflow = Outflow
U1010800_0112_R	U1010800_0112_R	1	Inflow = Outflow
U1020000_0197_R	U1020000_0197_R	1	Inflow = Outflow
U1020000_0232_R	U1020000_0232_R	17	Inflow = Outflow
U1020000_0465_R	U1020000_0465_R	25	Inflow = Outflow
U1020000_0632_R	U1020000_0632_R	1	Inflow = Outflow
U1060000_0006_R	U1060000_0006_R	11	Inflow = Outflow
U1060000_0177_R	U1060000_0177_R	3	Inflow = Outflow
U1060000_0229_R	U1060000_0229_R	6	Inflow = Outflow
U1060000_0301_R	U1060000_0301_R	1	Inflow = Outflow
U2010701_0000_R	U2010701_0000_R	1	Inflow = Outflow
U2010801_0000_R	U2010801_0000_R	1	Inflow = Outflow
W1670100_0082_R	W1670100_0082_R	16	Inflow = Outflow

Notes:

* Number of subreaches (routing steps) is for 5-minute time step.

Shaded values based on previous LOMRs and were not updated as part of this Study.

TABLE 11
Cypress Creek Overflows
(Effective vs. PMR)

Effective Name	Effective Peak Diversion (cfs)				PMR Name	PMR Peak Diversion (cfs)				Difference							
	10-Year	50-Year	100-Year	500-Year		10-Year	50-Year	100-Year	500-Year	10-Year		50-Year		100-Year		500-Year	
										(cfs)	(%)	(cfs)	(%)	(cfs)	(%)	(cfs)	(%)
K1000000_2436_D	2031	5665	8283	15070	K1000000_2446_D	3097	7344	10090	18772	1066	52%	1680	30%	1807	22%	3701	25%
K1000000_2321_D	2561	6184	7911	13623	K1000000_2309_D	144	953	1603	3829	-2418	-94%	-5231	-85%	-6308	-80%	-9794	-72%
K1000000_2240_D	581	1832	2349	4063	K1000000_2223_D	0	160	548	2555	-581	-100%	-1672	-91%	-1801	-77%	-1507	-37%
Totals =	5173	13680	18543	32755		3241	8457	12240	25155	-1933	-37%	-5223	-38%	-6302	-34%	-7600	-23%

Effective Name	Effective Diversion Volume (ac-ft)				PMR Name	PMR Diversion Volume (ac-ft)				Difference							
	10-Year	50-Year	100-Year	500-Year		10-Year	50-Year	100-Year	500-Year	10-Year		50-Year		100-Year		500-Year	
										(ac-ft)	(%)	(ac-ft)	(%)	(ac-ft)	(%)	(ac-ft)	(%)
K1000000_2436_D	1974	7328	10737	22087	K1000000_2446_D	5348	13222	17782	32317	3374	171%	5894	80%	7045	66%	10230	46%
K1000000_2321_D	3811	11320	15291	26738	K1000000_2309_D	295	2015	3490	8816	-3516	-92%	-9305	-82%	-11802	-77%	-17922	-67%
K1000000_2240_D	931	2576	3654	6993	K1000000_2223_D	0	471	1278	5300	-931	-100%	-2105	-82%	-2376	-65%	-1693	-24%
Totals =	6716	21224	29682	55818		5644	15708	22550	46433	-1073	-16%	-5516	-26%	-7132	-24%	-9385	-17%

	15% used to go Barkers (U101A_T100D2_SC); 10% went to U101 (K100_U101_SC); and 75% went to U102 (K100_U102_2SC)
	100% used to be diverted to K100_U102_1SC
	Diversion does not tie back to Cypress or Addicks in Effective Model.

TABLE 12
Diversion (DI-DQ) Curves for Cypress Creek Overflows

Overflow Name	Diversion To:	Outflow To:	Diversion Split %	Inflow - DI (cfs)				Diversion - DQ (cfs)				Notes
				10-Year	50-Year	100-Year	500-Year	10-Year	50-Year	100-Year	500-Year	
K1000000_2446_D	U101-00-00	U102-00-00	27%	3097	7344	10090	18772	836	1983	2724	5068	73% to U102, 27% to U101
K1000000_2309_D	N/A	U102-00-00	0%	144	953	1603	3829	0	0	0	0	No Diversion (All to U102)
K1000000_2223_D	N/A	U100-00-00	0%	0	160	548	2555	0	0	0	0	No Diversion (All to U100)

K1000000_2446_D	
DI (cfs)	DQ (cfs)
0	0
3097	836
7344	1983
10090	2724
18772	5068
20000	5400

K1000000_2309_D	
DI (cfs)	DQ (cfs)
0	0
144	0
953	0
1603	0
3829	0
4500	0

K1000000_2223_D	
DI (cfs)	DQ (cfs)
0	0
160	0
548	0
2555	0
3000	0

TABLE 13
Elevation-Storage-Discharge Curves for Cypress Creek Overflows

Name:	U500_00_01	
Upstream:	K1000000_2223_D	
Downstream:	U1000000_1131_J	
Initial Elevation:	153.35	
Elevation - SE (ft)	Storage - SV (ac-ft)	Discharge -SQ (cfs)
153.35	0	0
162.79	2871.05	511
164.17	5264.88	1022
165.72	7339.92	1533
167.17	9184.44	2044
168.49	10844.18	2555
169.73	12383.73	3066
171.45	14519.64	3833
174.05	17733.58	5110

Name:	U501_00_01	
Upstream:	K1000000_2446_D (Diversion)	
Downstream:	U1010000_0942_J	
Initial Elevation:	157.73	
Elevation - SE (ft)	Storage - SV (ac-ft)	Discharge -SQ (cfs)
157.73	0	0
167.97	1450.55	1014
168.62	2432.72	2027
169.07	3466.72	3041
169.53	4559.73	4054
170.1	5709.65	5068
170.75	6847.06	6082
171.78	8485.34	7602
173.5	11032.09	10136

Name:	U502_00_01	
Upstream:	K1000000_2446_D (Outflow); K1000000_2309_D	
Downstream:	U1000000_1131_J	
Initial Elevation:	153.81	
Elevation - SE (ft)	Storage - SV (ac-ft)	Discharge -SQ (cfs)
153.81	0	0
162.92	3007.86	3313
163.4	4918.96	6626
163.79	6641.19	9938
164.18	8332.55	13251
164.6	9958.23	16564
165.11	11626.62	19877
165.85	14104.96	24846
167.06	18211.75	33128

TABLE 14
Internal Overflows
Diversion and Elevation-Storage-Discharge Curves

Diversion Name:	U1020000_0632_D	
Upstream:	U1020000_0632_J	
Downstream:	U1020000_0465_R	
Diversion To:	U502_00_02	
Profile (Pct of 100-Yr)	Inflow - DI (cfs)	Outflow - DQ (cfs)
---	0	0
20%	913	0
40%	1826	4
60%	2740	76
80%	3653	343
100%	4566	786
120%	5479	1319
150%	6849	2541
200%	9132	4048
250%	13698	7869
300%	15068	8888
360%	16438	9902

Reservoir Name:	U502_00_02	
Upstream:	U1020000_0632_D (Diversion)	
Downstream:	U1010000_0639_J	
Condition:	Inflow = Outflow	
Elevation - SE (ft)	Storage - SV (ac-ft)	Discharge -SQ (cfs)
131	0	0
132	1.1	0.1
135.05	18.72	4
141.03	322.51	76
142.61	1216.66	343
143.53	2176.95	786
144.27	3153.31	1319
145.49	5068.64	2541
146.71	7204.52	4048
149.16	11967.45	7869
149.72	13162.1	8888
150.25	14269.02	9902

Name:	U1010800_0034_D	
Upstream:	U1010800_0034_J	
Downstream:	U1010800_0033_J	
Diversion To:	U2010801_0028_J	
	Inflow - DI (cfs)	Outflow - DQ (cfs)
	0	0
	385	0
	420	90
	650	105
	750	170
	1800	260

TABLE 15
Summary of Peak Flows
(Updated)

Junction	Drainage Area (mi ²)	Peak Flow (cfs)				Flow Rates (cfs/ac)	
		10-Year	50-Year	100-Year	500-Year	10-Year	100-Year
W1670100_0174_J	1.743	901	1313	1507	2103	0.81	1.35
W1670100_0082_J	4.064	1219	1872	2198	3129	0.47	0.84
W1670100_0000_J	4.064	1219	1872	2198	3129	0.47	0.84
W1670000_0207_J	1.408	375	578	683	989	0.42	0.76
W1670000_0206_J	5.472	1523	2364	2780	4011	0.43	0.79
W1670000_0022_J	10.779	2567	4019	4750	6902	0.37	0.69
U2010801_0028_J	0	92	154	182	217		
U2010801_0000_J	0	34	107	151	197		
U2010701_0032_J	0	23	76	89	130		
U2010701_0000_J	0.235	105	191	223	321	0.70	1.49
U1200000_0003_J	5.009	1213	1905	2270	3350	0.38	0.71
U1060000_0347_J	2.991	420	714	883	1380	0.22	0.46
U1060000_0301_J	4.854	530	818	980	1437	0.17	0.32
U1060000_0229_J	10.322	1663	2695	3250	4817	0.25	0.49
U1060000_0177_J	13.952	3261	5194	6251	9224	0.37	0.70
U1060000_0006_J	18.992	4610	7480	8919	12737	0.38	0.73
U1020100_0006_J	2.925	1728	2571	2962	4146	0.92	1.58
U1020000_0826_J	6.168	1749	4728	6845	14237	0.44	1.73
U1020000_0632_J	13.609	1453	2904	4568	12136	0.17	0.52
U1020000_0465_J	20.602	2202	3882	4694	6697	0.17	0.36
U1020000_0232_J	27.873	3125	5629	6837	10152	0.18	0.38
U1020000_0227_J	30.798	3677	6531	7993	12116	0.19	0.41
U1020000_0197_J	30.798	3632	6244	7618	11801	0.18	0.39
U1020000_0000_J	34.741	4233	7228	8806	13574	0.19	0.40
U1010800_0113_J	0.996	396	619	725	1051	0.62	1.14
U1010800_0112_J	0.996	107	116	204	427	0.17	0.32
U1010800_0051_J	1.698	255	393	465	700	0.23	0.43
U1010800_0049_J	1.933	344	578	684	987	0.28	0.55
U1010800_0034_J	2.066	393	648	783	1141	0.30	0.59
U1010800_0033_J	2.194	384	571	703	1083	0.27	0.50
U1010800_0002_J	2.465	476	724	870	1353	0.30	0.55
U1010700_0150_J	0	0	4	20	40		
U1010700_0090_J	0.181	68	106	124	181	0.58	1.07
U1010700_0089_J	0.181	53	53	53	52	0.45	0.45
U1010700_0053_J	0.191	86	150	187	244	0.71	1.53
U1010700_0052_J	0.191	86	150	187	244	0.71	1.53
U1010700_0035_J	0.328	126	190	219	317	0.60	1.04
U1010700_0033_J	0.328	2	66	95	193	0.01	0.45
U1010700_0001_J	0.328	33	95	132	255	0.16	0.63

TABLE 15
Summary of Peak Flows
(Updated)

Junction	Drainage Area (mi ²)	Peak Flow (cfs)				Flow Rates (cfs/ac)	
		10-Year	50-Year	100-Year	500-Year	10-Year	100-Year
U1010000_0942_J	0	452	1106	1572	3036		
U1010000_0812_J	6.391	1108	1822	2213	3534	0.27	0.54
U1010000_0808_J	8.245	1555	2543	3077	4662	0.29	0.58
U1010000_0639_J	14.357	1930	3197	3912	6464	0.21	0.43
U1010000_0509_J	20.638	2839	4672	5645	8731	0.21	0.43
U1010000_0507_J	23.103	3237	5211	6267	9693	0.22	0.42
U1010000_0469_J	23.803	3382	5421	6468	9934	0.22	0.42
U1010000_0466_J	24.131	3472	5590	6669	10195	0.22	0.43
U1010000_0348_J	28.777	4483	6992	8296	12076	0.24	0.45
U1010000_0344_J	31.088	5017	7814	9153	13120	0.25	0.46
U1010000_0193_J	36.538	4628	7994	9609	14520	0.20	0.41
U1010000_0000_J	40.04	5072	8775	10551	15941	0.20	0.41
U1000000_0995_J	6.305	951	1586	1935	2966	0.24	0.48
U1000000_0823_J	11.666	1365	2330	2882	4629	0.18	0.39
U1000000_0710_J	13.554	2135	3429	4109	6036	0.25	0.47
U1000000_0706_J	18.563	3338	5332	6378	9378	0.28	0.54
U1000000_0632_J	21.436	4575	7362	8760	12590	0.33	0.64
U1000000_0494_J	24.709	5575	8960	10543	15057	0.35	0.67
U1000000_0488_J	43.701	9892	16013	19258	27615	0.35	0.69
U1000000_0383_J	46.262	10194	16688	20052	28915	0.34	0.68
U1000000_0196_J	51.201	10577	17285	20794	30204	0.32	0.63
U1000000_0195_J	85.942	14790	24507	29581	43379	0.27	0.54
U1000000_0117_J	85.942	14790	24507	29581	43379	0.27	0.54
U1000000_0116_J	125.982	19032	31729	38450	57152	0.24	0.48
U1000000_0070_J	125.982	19032	31729	38450	57152	0.24	0.48
U1000000_0069_J	136.761	21595	35740	43192	64023	0.25	0.49
T1011300_0053_J	1.485	397	631	751	1112	0.42	0.79
T1011300_0000_J	1.939	428	733	905	1403	0.34	0.73
T1011300_0000_OUT	1.939	428	730	885	1363	0.34	0.71

TABLE 16
Summary of Subbasin Discharges
(Updated)

Subbasin	Drainage Area (mi ²)	Peak Flow (cfs)				Flow Rates (cfs/ac)		Runoff (in)				Losses (in)			
		10-Year	50-Year	100-Year	500-Year	10-Year	100-Year	10-Year	50-Year	100-Year	500-Year	10-Year	50-Year	100-Year	500-Year
T101_13A	1.485	397	631	751	1112	0.42	0.79	4.19	7.35	9.03	14.11	2.91	3.25	3.37	3.59
T101_13B	0.454	185	288	337	489	0.63	1.16	3.91	7.03	8.70	13.76	3.19	3.57	3.70	3.94
U100A	6.305	951	1586	1935	2966	0.24	0.48	3.75	6.82	8.48	13.51	3.35	3.78	3.92	4.19
U100B	5.361	1159	1857	2232	3338	0.34	0.65	4.24	7.38	9.06	14.13	2.86	3.22	3.34	3.57
U100C	1.888	1208	1790	2059	2871	1.00	1.70	5.12	8.40	10.12	15.26	1.98	2.20	2.28	2.44
U100D	2.873	1684	2504	2886	4046	0.92	1.57	5.22	8.51	10.23	15.38	1.88	2.09	2.17	2.32
U100E	3.273	1309	1986	2316	3319	0.62	1.11	5.16	8.45	10.16	15.31	1.94	2.15	2.24	2.39
U100F	2.561	538	850	1019	1514	0.33	0.62	4.72	7.94	9.64	14.75	2.38	2.66	2.76	2.95
U100G	4.939	508	866	1058	1632	0.16	0.33	3.98	7.08	8.75	13.80	3.12	3.52	3.65	3.90
U101_03A	2.311	757	1165	1369	1987	0.51	0.93	4.91	8.17	9.88	15.02	2.19	2.43	2.52	2.68
U101_07A	0.181	68	106	124	181	0.58	1.07	3.94	7.06	8.73	13.79	3.16	3.54	3.67	3.91
U101_07B	0.235	98	152	178	258	0.65	1.19	3.81	6.91	8.57	13.63	3.29	3.69	3.83	4.07
U101_07C	0.01	10	14	16	22	1.50	2.50	4.61	7.83	9.53	14.64	2.49	2.77	2.87	3.06
U101_07D	0.128	73	112	130	183	0.89	1.58	3.81	6.91	8.57	13.63	3.29	3.69	3.83	4.07
U101_07E	0.137	151	217	246	332	1.72	2.80	4.84	8.09	9.80	14.93	2.26	2.51	2.60	2.77
U101_08A	0.655	229	361	425	622	0.55	1.01	3.86	6.97	8.63	13.69	3.24	3.63	3.77	4.01
U101_08B	0.341	172	264	308	439	0.79	1.41	3.81	6.92	8.58	13.63	3.29	3.68	3.82	4.07
U101_08C	0.702	204	325	387	573	0.45	0.86	3.86	6.97	8.64	13.70	3.24	3.63	3.76	4.00
U101_08D	0.133	68	105	122	174	0.80	1.43	3.85	6.96	8.63	13.69	3.25	3.64	3.77	4.01
U101_08E	0.271	132	201	233	332	0.76	1.34	4.49	7.69	9.38	14.49	2.61	2.91	3.02	3.21
U101_12A	1.854	459	737	883	1316	0.39	0.74	3.93	7.05	8.72	13.78	3.17	3.55	3.68	3.92
U101A	6.391	1108	1822	2211	3360	0.27	0.54	3.92	7.04	8.71	13.77	3.18	3.56	3.69	3.93
U101B	6.112	1205	1969	2380	3594	0.31	0.61	3.94	7.06	8.73	13.79	3.16	3.54	3.67	3.91
U101C	6.281	1135	1853	2244	3397	0.28	0.56	4.05	7.18	8.86	13.93	3.05	3.42	3.54	3.77
U101D	0.7	434	642	739	1030	0.97	1.65	5.18	8.48	10.21	15.36	1.92	2.12	2.19	2.34
U101E	4.646	1565	2398	2816	4070	0.53	0.95	5.14	8.43	10.15	15.31	1.96	2.17	2.25	2.39
U101F	5.45	1106	1755	2103	3125	0.32	0.60	4.77	8.01	9.72	14.85	2.33	2.59	2.68	2.85
U101G	3.502	605	996	1205	1825	0.27	0.54	4.07	7.21	8.88	13.95	3.03	3.39	3.52	3.75
U102_01A	2.925	1728	2571	2962	4146	0.92	1.58	5.06	8.36	10.08	15.24	2.04	2.24	2.32	2.46
U102A	6.168	930	1539	1872	2853	0.24	0.47	3.99	7.13	8.81	13.89	3.11	3.47	3.59	3.81
U102B	7.441	1361	2223	2691	4068	0.29	0.57	4.04	7.19	8.87	13.96	3.06	3.41	3.53	3.74
U102C	6.993	1189	1932	2338	3532	0.27	0.52	4.28	7.47	9.16	14.26	2.82	3.13	3.24	3.44
U102D	7.271	2064	3215	3809	5567	0.44	0.82	4.91	8.19	9.90	15.05	2.19	2.41	2.50	2.65
U102E	3.943	606	984	1189	1790	0.24	0.47	4.47	7.68	9.38	14.50	2.63	2.92	3.02	3.20
U106A	2.991	420	714	883	1380	0.22	0.46	3.20	5.70	7.16	11.69	3.90	4.90	5.24	6.01
U106B	1.863	449	700	835	1235	0.38	0.70	4.65	7.55	9.15	13.96	2.45	3.05	3.25	3.74
U106C	5.468	1215	1919	2304	3443	0.35	0.66	4.32	7.12	8.69	13.44	2.78	3.48	3.71	4.26
U106D	3.63	1985	3009	3501	4990	0.85	1.51	4.42	7.25	8.83	13.59	2.68	3.35	3.57	4.11
U106E	5.04	1539	2395	2837	4173	0.48	0.88	4.51	7.37	8.95	13.73	2.59	3.23	3.45	3.97
U120A	5.009	1213	1905	2270	3350	0.38	0.71	4.74	7.96	9.66	14.77	2.36	2.64	2.74	2.93
W167_01A	1.743	901	1313	1507	2103	0.81	1.35	6.27	9.79	11.58	16.87	0.83	0.81	0.82	0.83
W167_01B	2.321	485	746	883	1282	0.33	0.59	5.92	9.42	11.21	16.49	1.18	1.18	1.19	1.21
W167C	5.307	1063	1664	1978	2892	0.31	0.58	5.44	8.91	10.69	15.97	1.66	1.69	1.71	1.73
W167D	1.408	375	578	683	989	0.42	0.76	5.37	8.84	10.62	15.89	1.73	1.76	1.78	1.81

Average:	3.152	1109	1757	2098	3109	0.39	0.74	4.45	7.61	9.28	14.35	2.65	2.99	3.12	3.35
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TABLE 17
Peak Flow Comparisons
(Effective vs. Updated)

Junction	Effective Drainage Area (mi ²)	Effective Peak Flow (cfs)				Updated Drainage Area (mi ²)	Updated Peak Flow (cfs)				Area Differences		Peak Flow Differences (cfs)				Peak Flow Differences (%)			
		10-Year	50-Year	100-Year	500-Year		10-Year	50-Year	100-Year	500-Year	(mi ²)	(%)	10-Year	50-Year	100-Year	500-Year	10-Year	50-Year	100-Year	500-Year
W1670100_0174_J	2.02	749	1116	1300	1845	1.743	901	1313	1507	2103	-0.277	-14%	152	197	207	258	20%	18%	16%	14%
W1670000_0206_J	5.3	1652	2505	2944	4218	5.472	1523	2364	2780	4011	0.172	3%	-130	-142	-164	-207	-8%	-6%	-6%	-5%
U1200000_0003_J	6.2	1074	1761	2135	3236	5.009	1213	1905	2270	3350	-1.191	-19%	138	144	135	113	13%	8%	6%	4%
U1060000_0301_J	3.15	689	1124	1361	2076	4.854	530	818	980	1437	1.704	54%	-159	-306	-381	-639	-23%	-27%	-28%	-31%
U1060000_0229_J	8.54	2804	4383	5178	7625	10.322	1663	2695	3250	4817	1.782	21%	-1141	-1688	-1928	-2808	-41%	-39%	-37%	-37%
U1060000_0177_J	12.19	4616	7218	8499	12428	13.952	3261	5194	6251	9224	1.762	14%	-1355	-2024	-2248	-3204	-29%	-28%	-26%	-26%
U1060000_0006_J	18.2	6244	9934	11749	16989	18.992	4610	7480	8919	12737	0.792	4%	-1634	-2454	-2830	-4252	-26%	-25%	-24%	-25%
U1020100_0006_J	3.03	860	1334	1580	2308	2.925	1728	2571	2962	4146	-0.105	-3%	869	1236	1382	1838	101%	93%	87%	80%
U1020000_0826_J	3.94	875	2083	4394	14439	6.168	1749	4728	6845	14237	2.228	57%	874	2645	2451	-202	100%	127%	56%	-1%
U1020000_0632_J	13.34	2462	3935	4700	12365	13.609	1453	2904	4568	12136	0.269	2%	-1009	-1032	-132	-230	-41%	-26%	-3%	-2%
U1020000_0465_J	17.96	3113	5022	6033	12386	20.602	2202	3882	4694	6697	2.642	15%	-911	-1140	-1339	-5689	-29%	-23%	-22%	-46%
U1020000_0232_J	24.64	4090	6606	7960	12545	27.873	3125	5629	6837	10152	3.233	13%	-965	-977	-1123	-2393	-24%	-15%	-14%	-19%
U1020000_0197_J	27.67	4548	7327	8828	13101	30.798	3632	6244	7618	11801	3.128	11%	-916	-1084	-1210	-1300	-20%	-15%	-14%	-10%
U1010700_0052_J	3.19	403	667	815	1254	0.191	86	150	187	244	-2.999	-94%	-317	-518	-628	-1010	-79%	-78%	-77%	-81%
U1010000_0808_J	7.6	1439	2348	2837	4297	8.245	1555	2543	3077	4662	0.645	8%	116	194	240	365	8%	8%	8%	8%
U1010000_0639_J	14.19	2360	3722	4473	6694	14.357	1930	3197	3912	6464	0.167	1%	-429	-525	-561	-230	-18%	-14%	-13%	-3%
U1010000_0466_J	25.7	4000	6316	7622	11425	24.131	3472	5590	6669	10195	-1.569	-6%	-527	-725	-953	-1230	-13%	-11%	-13%	-11%
U1010000_0344_J	32.7	5891	9092	10570	14961	31.088	5017	7814	9153	13120	-1.612	-5%	-875	-1279	-1417	-1842	-15%	-14%	-13%	-12%
U1010000_0000_J	42.29	6901	11322	13294	18310	40.04	5072	8775	10551	15941	-2.25	-5%	-1829	-2548	-2743	-2369	-27%	-23%	-21%	-13%
U1000000_0995_J	6.96	952	1622	1980	3047	6.305	951	1586	1935	2966	-0.655	-9%	-1	-36	-45	-81	0%	-2%	-2%	-3%
U1000000_0632_J	26.1	4019	6548	7791	11956	21.436	4575	7362	8760	12590	-4.664	-18%	556	814	969	634	14%	12%	12%	5%
U1000000_0494_J	29.02	4413	7274	8701	13062	24.709	5575	8960	10543	15057	-4.311	-15%	1162	1686	1842	1996	26%	23%	21%	15%
U1000000_0488_J	47.22	9082	15429	18784	28030	43.701	9892	16013	19258	27615	-3.519	-7%	810	584	474	-415	9%	4%	3%	-1%
U1000000_0383_J	49.28	6973	12166	15203	24507	46.262	10194	16688	20052	28915	-3.018	-6%	3220	4522	4849	4409	46%	37%	32%	18%
U1000000_0069_J	138.46	21410	35529	42732	62368	136.761	21595	35740	43192	64023	-1.699	-1%	185	211	460	1655	1%	1%	1%	3%