

FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 5



LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, KENTUCKY (ALL JURISDICTIONS)

COMMUNITY NAME	COMMUNITY NUMBER
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, KENTUCKY	210067



FEMA

EFFECTIVE: PRELIMINARY

FLOOD INSURANCE STUDY NUMBER
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Flood Insurance Rate Map (FIRM)

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
North Elkhorn Creek	840 feet D/S of confluence with Highway 68-27 Tributary	50.04	*	*	*	12,663	*
North Elkhorn Creek	At confluence with Highway 68-27 Tributary	46.6	*	*	*	12,322	*
North Elkhorn Creek	At Paris Pike	46.55	*	*	*	12,317	*
North Elkhorn Creek	At confluence with Avon Tributary	25.25	*	*	*	9,358	*
North Elkhorn Creek	At Orientate Way	25.23	*	*	*	9,358	*
North Elkhorn Creek	2640 feet D/S of Mahmoud Lane	25	*	*	*	9,352	*
North Elkhorn Creek	At Mahmoud Lane	24.69	*	*	*	9,344	*
North Elkhorn Creek	1450 feet D/S of confluence with Johnson Road Tributary	24.35	*	*	*	9,332	*
North Elkhorn Creek	At confluence with Johnson Road Tributary	24.01	*	*	*	9,319	*
North Elkhorn Creek	At Johnston Road	23.62	*	*	*	9,301	*
North Elkhorn Creek	At Bryan Station Road	21.52	*	*	*	9,160	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
North Elkhorn Creek	At CSX Railroad	21.10/0.11 ¹⁰	2,080	*	3,160	3,700	3,700
North Elkhorn Creek	At U.S. Route 60	4.14	936	*	1,390	1,650	2,000
North Elkhorn Creek	770 feet U/S of U.S. Route 60	4.08	933	*	1,390	1,640	1,990
North Elkhorn Creek	100 feet D/S of confluence of Brighton Tributary	3.10	710	*	1,080	1,280	1,570
North Elkhorn Creek	1650 feet D/S of confluence of Bryant Tributary	2.93	696	*	1,060	1,250	1,530
North Elkhorn Creek	60 feet U/S of confluence of Bryant Tributary	2.27	549	*	847	1,010	1,230
North Elkhorn Creek Tributary	At mouth	2.20	531	*	875	1,665	1,932
North Elkhorn Creek Tributary	At confluence with Five Pond Tributary	2.20	1,501	*	2,061	2,612	2,816
North Elkhorn Creek Tributary	At confluence with unnamed tributary to North Elkhorn Creek Tributary	1.58	933	*	1,377	1,881	2,072
Old Pine Grove Tributary	1.25 miles D/S of Winchester Road	0.60	*	*	*	788	*
Old Pine Grove Tributary	1.04 miles D/S of Winchester Road	0.43	*	*	*	637	*
Old Pine Grove Tributary	4500 feet D/S of Winchester Road	0.36	*	*	*	569	*

¹⁰ Total drainage area/noncontributing portion of total drainage area

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Old Pine Grove Tributary	2870 feet D/S of Winchester Road	0.25	*	*	*	446	*
Old Pine Grove Tributary	1520 feet D/S of Winchester Road	0.13	*	*	*	298	*
Old Pine Grove Tributary	470 feet D/S of Winchester Road	0.05	*	*	*	152	*
Parkers Mill Tributary	At mouth	1.22	542	*	933	1,144	1,587
Pine Grove Tributary	1.88 miles D/S of Winchester Road	0.69	*	*	*	868	*
Pine Grove Tributary	1.58 miles D/S of Winchester Road	0.54	*	*	*	743	*
Pine Grove Tributary	1.19 miles D/S of Winchester Road	0.39	*	*	*	597	*
Pine Grove Tributary	4350 feet D/S of Winchester Road	0.25	*	*	*	454	*
Pine Grove Tributary	2480 feet D/S of Winchester Road	0.15	*	*	*	324	*
Pine Grove Tributary	2000 feet D/S of Winchester Road	0.07	*	*	*	192	*
Pine Grove Tributary	1240 feet D/S of Winchester Road	0.04	*	*	*	148	*
Pipeline Tributary	40 feet U/S of confluence with Lexington Reservoir No. 4	1.36	384	*	609	726	889
Pipeline Tributary	740 feet U/S of confluence with Lexington Reservoir No. 4	1.19	304	*	434	517	659

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pipeline Tributary	1820 feet U/S of confluence with Lexington Reservoir No. 4	1.15	301	*	430	512	657
Pipeline Tributary	3180 feet U/S of confluence with Lexington Reservoir No. 4	1.05	290	*	413	493	632
Pipeline Tributary	3570 feet U/S of confluence with Lexington Reservoir No. 4	0.96	276	*	393	469	595
Pipeline Tributary	3890 feet U/S of confluence with Lexington Reservoir No. 4	0.92	272	*	387	462	586
Pipeline Tributary	3980 feet U/S of confluence with Lexington Reservoir No. 4	0.92	465	*	671	772	909
Pipeline Tributary	5100 feet U/S of confluence with Lexington Reservoir No. 4	0.66	255	*	347	394	443
Pipeline Tributary	5850 feet U/S of confluence with Lexington Reservoir No. 4	0.65	255	*	348	394	442

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pipeline Tributary	6430 feet U/S of confluence with Lexington Reservoir No. 4	0.59	228	*	312	353	400
Pipeline Tributary	6680 feet U/S of confluence with Lexington Reservoir No. 4	0.55	254	*	382	448	538
Pipeline Tributary	7660 feet U/S of confluence with Lexington Reservoir No. 4	0.23	148	*	192	216	250
Pipeline Tributary	8440 feet U/S of confluence with Lexington Reservoir No. 4	0.21	163	*	232	267	314
Pleasant Ridge Church Tributary	At mouth	0.86	342	*	549	704	945
Pleasant Ridge Church Tributary	40 feet U/S of confluence with I-75 Tributary	0.69	279	*	454	593	804
Pleasant Ridge Church Tributary	1640 feet U/S of confluence with I-75 Tributary	0.43	116	*	221	325	489
Pleasant Ridge Church Tributary	2830 feet U/S of confluence with I-75 Tributary	0.25	188	*	263	330	428
Pleasant Ridge Church Tributary	3400 feet U/S of confluence with Two Ponds Tributary	0.18	117	*	178	227	295

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Pleasant Ridge Church Tributary	5210 feet U/S of confluence with Two Ponds Tributary	0.12	126	*	184	214	255
Pleasant Ridge Church Tributary	5690 feet U/S of confluence with Two Ponds Tributary	0.05	46	*	68	80	96
Two Ponds Tributary	At mouth	0.16	272	*	384	441	554
Quarry Tributary	At mouth	0.40	181	*	311	382	530
Quarry Tributary	2510 feet U/S of confluence with South Elkhorn Creek	0.18	258	*	362	416	491
Quarry Tributary	2770 feet U/S of confluence with South Elkhorn Creek	0.18	255	*	359	412	485
Quarry Tributary	2980 feet U/S of confluence with South Elkhorn Creek	0.18	253	*	355	407	479
Quarry Tributary	3260 feet U/S of confluence with South Elkhorn Creek	0.17	250	*	350	401	472
Quarry Tributary	3570 feet U/S of confluence with South Elkhorn Creek	0.14	209	*	292	334	392

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Quarry Tributary	3960 feet U/S of confluence with South Elkhorn Creek	0.13	198	*	276	316	371
Radio Tower Tributary	120 feet U/S of confluence with East Hickman Creek	0.65	30	*	63	101	169
Radio Tower Tributary	940 feet U/S of confluence with East Hickman Creek	0.63	489	*	752	886	1,070
Radio Tower Tributary	3530 feet U/S of confluence with East Hickman Creek	0.4	353	*	509	589	699
Radio Tower Tributary	4960 feet U/S of confluence with East Hickman Creek	0.29	287	*	395	447	519
Radio Tower Tributary	5980 feet U/S of confluence with East Hickman Creek	0.22	211	*	273	303	344
Radio Tower Tributary	6190 feet U/S of confluence with East Hickman Creek	0.15	136	*	159	171	218

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Radio Tower Tributary	6320 feet U/S of confluence with East Hickman Creek	0.15	163	*	218	246	284
Radio Tower Tributary	7230 feet U/S of confluence with East Hickman Creek	0.11	107	*	139	156	178
Radio Tower Tributary	7460 feet U/S of confluence with East Hickman Creek	0.07	73	*	103	119	140
Radio Tower Tributary	8000 feet U/S of confluence with East Hickman Creek	0.06	46	*	64	74	102
Radio Tower Tributary	8500 feet U/S of confluence with East Hickman Creek	0.04	23	*	32	53	84
Radio Tower Tributary	8630 feet U/S of confluence with East Hickman Creek	0.03	40	*	60	70	84
Reservoir Tributary	At Squires Road	0.44	595	*	800	900	1,100
Reservoir Tributary East	At mouth	0.43	421	*	624	728	940
Richmond Road Tributary	At U.S. Route 25	0.66	630	*	700	760	900

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Shadeland Tributary	At mouth	0.34	387	*	572	667	860
Shannon Run	At mouth	13.95	*	*	*	3,395	*
Shannon Run	At confluence with Shannon Run Tributary 3	12.07	*	*	*	3,068	*
Shannon Run	950 feet U/S of Frogtown Lane crossing	10.17	*	*	*	2,722	*
Shannon Run	2300 feet U/S of Frogtown Lane crossing	8.74	*	*	*	2,448	*
Shannon Run	4000 feet D/S of confluence with Shannon Run Tributary 2	6.89	*	*	*	2,073	*
Shannon Run	1500 feet D/S of confluence with Shannon Run Tributary 2	6.55	*	*	*	2,001	*
Shannon Run	At confluence with Shannon Run Tributary 2	3.78	*	*	*	1,362	*
Shannon Run	600 feet D/S of James Lane	3.03	*	*	*	1,167	*
Shannon Run	200 feet D/S of James Lane	2.16	*	*	*	921	*
Shannon Run	2500 feet U/S of James Lane	1.82	*	*	*	817	*
Shannon Run	4600 feet U/S of James Lane	1.24	*	*	*	625	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Shannon Run	5000 feet U/S of James Lane	0.72	*	*	*	427	*
Shannon Run	1.3 miles U/S of James Lane	0.64	*	*	*	393	*
Shannon Run Tributary 3	At mouth	1.46	*	*	*	700	*
Shannon Run Tributary 3	850 feet U/S of confluence with Shannon Run	1.43	*	*	*	691	*
Shelby Branch	At mouth	6.73	*	*	*	3,748	*
Shelby Branch	1020 feet U/S of Tates Creek Road	6.44	*	*	*	3,645	*
Shelby Branch	2530 feet D/S of confluence with Shelby Branch Tributary 3	5.04	*	*	*	3,113	*
Shelby Branch	490 feet D/S of confluence with Shelby Branch Tributary 2	3.9	*	*	*	2,639	*
Shelby Branch	At confluence with Shelby Branch Tributary 2	2.91	*	*	*	2,188	*
Shelby Branch	560 feet D/S of confluence with Shelby Branch Tributary 1	2.67	*	*	*	2,068	*
Shelby Branch	At confluence with Shelby Branch Tributary 1	1.57	*	*	*	1,472	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Shelby Branch	3300 feet U/S of Shelby Lane	1.2	*	*	*	1,235	*
Shelby Branch	4900 feet U/S of Shelby Lane	1.1	*	*	*	1,170	*
Shelby Branch Tributary 1	At mouth	1.08	*	*	*	1,157	*
Shelby Branch Tributary 1	1410 feet U/S of Shelby Lane	1.01	*	*	*	1,110	*
Shelby Branch Tributary 2	At mouth	0.98	*	*	*	1,084	*
Shelby Branch Tributary 2	2380 feet U/S of confluence with Shelby Branch	0.84	*	*	*	984	*
Shelby Branch Tributary 2	2850 feet U/S of confluence with Shelby Branch	0.54	*	*	*	744	*
Shelby Branch Tributary 2	3910 feet U/S of confluence with Shelby Branch	0.5	*	*	*	705	*
Shelby Branch Tributary 2	4850 feet U/S of confluence with Shelby Branch	0.35	*	*	*	555	*
Shelby Branch Tributary 2	1.17 miles U/S of confluence with Shelby Branch	0.23	*	*	*	432	*
Shelby Branch Tributary 3	At mouth	0.64	*	*	*	824	*
Shelby Branch Tributary 3	500 feet D/S of confluence with Shelby Branch Tributary 3.1	0.52	*	*	*	727	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Shelby Branch Tributary 3	At confluence with Shelby Branch Tributary 3.1	0.26	*	*	*	463	*
Shelby Branch Tributary 3	1640 feet U/S of confluence with Shelby Branch Tributary 3.1	0.13	*	*	*	303	*
Shelby Branch Tributary 3	3430 feet U/S of confluence with Shelby Branch Tributary 3.1	0.06	*	*	*	184	*
Shelby Branch Tributary 3.1	At mouth	0.26	*	*	*	457	*
Shelby Branch Tributary 3.1	1440 feet U/S of confluence with Shelby Branch Tributary 3	0.2	*	*	*	385	*
Shelby Branch Tributary 3.1	2710 feet U/S of confluence with Shelby Branch Tributary 3	0.1	*	*	*	255	*
Shelby Branch Tributary 3.1	3980 feet U/S of confluence with Shelby Branch Tributary 3	0.03	*	*	*	112	*
South Elkhorn Creek	At Norfolk Southern Railway	47.50/10.30 ¹¹	2,700	*	4,100	4,950	6,900
South Elkhorn Creek	At Versailles Road	23.45	3,250	*	5,409	6,575	9,023

¹¹ Total drainage area/noncontributing portion of total drainage area

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
South Elkhorn Creek	At confluence of Cave Creek	17.10	3,128	*	5,248	6,395	8,803
South Elkhorn Creek	Approx. 8300 feet upstream of confluence of Cave Creek	15.18	3,228	*	5,412	6,597	9,097
South Elkhorn Creek	Approx. 1650 feet downstream of Harrodsburg Road	13.13	3,294	*	5,540	6,755	9,308
South Elkhorn Creek	At confluence of Drive-In Tributary	6.88	2,586	*	4,243	5,127	6,968
South Elkhorn Creek	At Sewage Treatment Plant Drive	6.80	2,654	*	4,343	5,243	7,131
South Elkhorn Creek	At confluence of Quarry Tributary	3.59	1,834	*	3,004	3,630	4,933
South Elkhorn Creek	Just U/S of confluence of Quarry Tributary	3.25	1,320	*	1,920	2,230	2,650
South Elkhorn Creek	440 feet U/S of confluence with Quarry Tributary	3.22	1,320	*	1,910	2,220	2,640
South Elkhorn Creek	1190 feet U/S of confluence with Quarry Tributary	3.11	1,290	*	1,870	2,170	2,570
South Elkhorn Creek	1830 feet U/S of confluence with Quarry Tributary	2.88	1,200	*	1,720	1,990	2,370

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
South Elkhorn Creek	100 feet U/S of confluence with Waveland Museum Tributary	1.57	705	*	1,030	1,190	1,420
South Elkhorn Creek	850 feet U/S of confluence with Waveland Museum Tributary	1.54	700	*	1,020	1,180	1,400
South Elkhorn Creek	2250 feet U/S of confluence with Waveland Museum Tributary	1.46	687	*	999	1,160	1,360
South Elkhorn Creek	2860 feet U/S of confluence with Waveland Museum Tributary	1.34	584	*	855	997	1,200
South Elkhorn Creek	3440 feet U/S of confluence with Waveland Museum Tributary	1.24	540	*	789	919	1,100
South Elkhorn Creek	4440 feet U/S of confluence with Waveland Museum Tributary	1.18	517	*	753	876	1,050
South Elkhorn Creek	4890 feet U/S of confluence with Waveland Museum Tributary	1.09	477	*	695	809	967

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
South Elkhorn Creek	5520 feet U/S of confluence with Waveland Museum Tributary	0.87	330	*	475	551	656
South Elkhorn Creek	6060 feet U/S of confluence with Waveland Museum Tributary	0.55	174	*	247	286	286
South Elkhorn Creek	6650 feet U/S of confluence with Waveland Museum Tributary	0.53	157	*	223	258	306
South Elkhorn Creek	7090 feet U/S of confluence with Waveland Museum Tributary	0.51	148	*	208	239	283
South Elkhorn Creek	7700 feet U/S of confluence with Waveland Museum Tributary	0.38	284	*	395	452	530
Southpoint Tributary	At confluence with West Hickman Creek	1.93	783	*	1,347	1,665	2,246
Southpoint Tributary	650 feet D/S of Southpoint Drive	0.57	*	*	*	767	*
Southpoint Tributary	1850 feet U/S of Southpoint Drive	0.43	*	*	*	639	*
Squires Road Tributary	At mouth	0.61	124	*	230	298	530
Squires Road Tributary	At Squires Road	0.42	100	*	190	245	440

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Steeles Run	At mouth	7.01/1.66 ¹²	570	*	960	1,180	1,860
Steeles Run	At Elk Chester Road	3.88/1.24 ¹³	335	*	600	750	1,250
Stonewall Estates Tributary	At Higbee Mill Road	2.89/0.16 ¹³	820	*	1,220	1,380	1,950
Stonewall Estates Tributary	At New Circle Road	0.60	295	*	455	540	800
Stonewall Estates Tributary 2	80 feet U/S of confluence with Stonewall Estates Tributary	0.33	107	*	182	209	289
Stonewall Estates Tributary 2	390 feet U/S of confluence with Stonewall Estates Tributary	0.29	97	*	166	192	264
Stonewall Estates Tributary 2	900 feet U/S of confluence with Stonewall Estates Tributary	0.28	152	*	223	287	361
Stonewall Estates Tributary 2	1350 feet U/S of confluence with Stonewall Estates Tributary	0.18	100	*	142	197	262
Stonewall Estates Tributary 2	1740 feet U/S of confluence with Stonewall Estates Tributary	0.09	39	*	52	81	124

¹² Total Drainage area/noncontributing portion of total drainage area

¹³ Total Drainage area/noncontributing portion of total drainage area

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Stonewall Estates Tributary 2	2160 feet U/S of confluence with Stonewall Estates Tributary	0.07	78	*	113	131	156
Stonewall Estates Tributary 2	2340 feet U/S of confluence with Stonewall Estates Tributary	0.07	25	*	44	73	114
Tates Creek	At mouth	3.04	1,509	*	2,231	2,604	3,362
Tates Creek	At confluence of Lansdowne Drive Tributary	1.43	898	*	1,315	1,531	1,969
Tates Creek	At confluence of Shadeland Tributary	0.35	357	*	541	635	828
Tiverton Way Tributary	At mouth	1.52	1,185	*	1,758	2,053	2,650
Todds Road Tributary	At mouth	1.98	1,004	*	1,525	1,797	2,354
Todds Road Tributary	Just U/S of confluence of Todds Road Tributary North	1.16	280	*	445	529	643
Todds Road Tributary	900 feet U/S of confluence with Todds Road Tributary North	1.10	271	*	433	516	627

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Todds Road Tributary	1780 feet U/S of confluence with Todds Road Tributary North	1.03	259	*	417	496	605
Todds Road Tributary	2810 feet U/S of confluence with Todds Road Tributary North	0.66	188	*	342	424	538
Todds Road Tributary	3630 feet U/S of confluence with Todds Road Tributary North	0.59	174	*	311	384	483
Todds Road Tributary	3930 feet U/S of confluence with Todds Road Tributary North	0.58	172	*	304	376	473
Todds Road Tributary	4540 feet U/S of confluence with Todds Road Tributary North	0.51	147	*	264	326	416
Todds Road Tributary	4930 feet U/S of confluence with Todds Road Tributary North	0.50	145	*	261	322	411
Todds Road Tributary	5420 feet U/S of confluence with Todds Road Tributary North	0.25	66	*	117	144	184

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Todds Road Tributary	6310 feet U/S of confluence with Todds Road Tributary North	0.20	57	*	103	128	164
Town Branch	At mouth	36.48/3.83 ¹⁴	6,800	*	9,200	10,200	12,800
Town Branch	At New Circle Road	7.55/0.45 ¹⁴	4,800	*	6,100	6,500	7,500
Town Branch	At CSX Railroad	2.55	3,300	*	4,400	4,900	6,100
Two Ponds Tributary	30 feet U/S of confluence with Pleasant Ridge Church Tributary	0.16	167	*	252	298	361
Two Ponds Tributary	300 feet U/S of confluence with Pleasant Ridge Church Tributary	0.16	11	*	43	91	181
Two Ponds Tributary	1550 feet U/S of confluence with Pleasant Ridge Church Tributary	0.07	42	*	83	100	127
Two Ponds Tributary	1670 feet U/S of confluence with Pleasant Ridge Church Tributary	0.06	40	*	88	122	164
Two Ponds Tributary	2020 feet U/S of confluence with Pleasant Ridge Church Tributary	0.04	59	*	88	103	123

¹⁴ Total drainage area/noncontributing portion of total drainage area

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Two Ponds Tributary	2460 feet U/S of confluence with Pleasant Ridge Church Tributary	0.04	50	*	74	86	104
UK Agricultural Station Branch	At mouth	7.38 ¹⁵	660	*	1,100	1,340	2,110
UK Agricultural Station Branch	At State Route 922	4.70 ¹⁵	460	*	785	970	1,680
Unnamed Tributary to I-75 Tributary	45 feet U/S of confluence with I- 75 Tributary	0.21	110	*	159	182	218
Unnamed Tributary to I-75 Tributary	660 feet U/S of confluence with I- 75 Tributary	0.2	101	*	146	173	210
Unnamed Tributary to I-75 Tributary	1310 feet U/S of confluence with I- 75 Tributary	0.23	*	*	*	126	*
Unnamed Tributary to I-75 Tributary	1690 feet U/S of confluence with I- 75 Tributary	0.06	*	*	*	106	*
Unnamed Tributary to I-75 Tributary	2350 feet U/S of confluence with I- 75 Tributary	0.04	*	*	*	55	*
Unnamed Tributary to Lemons Mill Road Tributary	At mouth	0.23	*	*	*	191	*

¹⁵ Flow controlled by karst areas

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Unnamed Tributary to Lemons Mill Road Tributary	800 feet U/S of confluence with Lemons Mill Road Tributary	0.21	*	*	*	179	*
Unnamed Tributary to Lemons Mill Road Tributary	1340 feet U/S of confluence with Lemons Mill Road Tributary	0.18	*	*	*	162	*
Unnamed Tributary to North Elkhorn Creek Tributary	At mouth	0.40	593	*	841	1,115	1,218
Unnamed Tributary to Walnut Hill Church Tributary	At mouth	0.53	*	*	*	730	*
Unnamed Tributary to Walnut Hill Church Tributary	430 feet U/S of Walnut Hill Road	0.39	*	*	*	602	*
Unnamed Tributary to Walnut Hill Church Tributary	1890 feet U/S of Walnut Hill Road	0.29	*	*	*	497	*
Unnamed Tributary to Walnut Hill Church Tributary	1140 feet D/S of Old Richmond Road	0.2	*	*	*	393	*

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Unnamed Tributary to Walnut Hill Church Tributary	At Old Richmond Road	0.1	*	*	*	246	*
Unnamed Tributary to Walnut Hill Church Tributary	1530 feet U/S of Old Richmond Road	0.03	*	*	*	113	*
U.S. Route 60 Tributary	At mouth	0.31	373	*	547	635	814
Vaughn's Branch	At mouth	2.90/0.13 ¹⁶	1,600	*	2,200	2,400	3,000
Walnut Hill Church Tributary	At mouth	3.68	*	*	*	2,542	*
Walnut Hill Church Tributary	1560 feet D/S of confluence with Unnamed Tributary to Walnut Hill Church Tributary	3.07	*	*	*	2,260	*
Walnut Hill Church Tributary	At confluence with Unnamed Tributary to Walnut Hill Church Tributary	2.37	*	*	*	1,916	*
Walnut Hill Church Tributary	1010 feet U/S of confluence with Unnamed Tributary to Walnut Hill Church Tributary	2.08	*	*	*	1,763	*

¹⁶ Total drainage area/noncontributing portion of total drainage area

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Walnut Hill Church Tributary	1200 feet D/S of Old Richmond Road	1.67	*	*	*	1,533	*
Walnut Hill Church Tributary	1000 feet U/S of Old Richmond Road	1.35	*	*	*	1,336	*
Walnut Hill Church Tributary	1440 feet U/S of Old Richmond Road	1.04	*	*	*	1,129	*
Walnut Hill Church Tributary	2220 feet U/S of Old Richmond Road	0.97	*	*	*	1,077	*
Waveland Museum Tributary	At mouth	1.22	433	*	803	1,006	1,439
West Hickman Creek	At approximately 0.63 miles upstream of confluence of West Hickman Creek Tributary 1	18.05	3,755	4,990	6,127	7,638	10,987
West Hickman Creek	At approximately 20 feet upstream of Clearwater Way	14.23	3,187	4,192	5,117	6,339	9,090
West Hickman Creek	At Man O War Boulevard	12.46	2,674	3,505	4,274	5,290	7,620
West Hickman Creek	At Wilson Downing Road	10.86	2,087	2,746	3,351	4,152	5,994
West Hickman Creek	At Tates Creek Road	10.81	2,083	2,741	3,346	4,144	5,984

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
West Hickman Creek	At approximately 0.26 miles upstream of Tates Creek Road	10.13	1,993	2,629	3,212	3,983	5,762
West Hickman Creek	At Armstrong Mill Road	6.52	814	1,059	1,277	1,563	2,167
West Hickman Creek	At Centre Parkway	6.03	724	920	1,096	1,323	1,923
West Hickman Creek	At Gainesway Drive	5.23	390	465	537	659	1,548
West Hickman Creek	At East New Circle Road	5.17	384	456	527	657	1,543
West Hickman Creek	At approximately 0.36 miles downstream of Alumni Drive	4.69	278	363	439	706	1,509
West Hickman Creek	At Alumni Drive	4.44	200	265	369	682	1,470
Wilson-Downing Road Tributary	At mouth	1.50	958	*	1,374	1,585	2,010
Wilson-Downing Road Tributary	Approx. 2000 feet downstream of Lansdowne Drive	0.91	1,007	*	1,450	1,674	2,127
Wilson-Downing Road Tributary	At Lansdowne Drive	0.36	576	*	814	934	1,175
Wilson-Downing Road Tributary	At confluence of Flintridge Drive Tributary	0.24	381	*	544	626	791
Wolf Run	At mouth	10.11/0.72 ¹⁷	2,900	*	3,570	3,900	4,350
Wolf Run	At Lafayette Parkway	1.30	1,050	*	1,400	1,575	1,950

*Data not available

Table 10: Summary of Discharges

Flooding Source	Location	Drainage Area (Square Miles)	Peak Discharge (cfs)				
			10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Wolf Run	Approximately 300 feet downstream of Southport Drive	1.10	939	*	1,336	1,530	2,025
Wolf Run	At Norfolk Southern Railroad Overpass	0.58	505	*	630	720	830

*Data not available

Figure 7: Frequency Discharge-Drainage Area Curves

[Not Applicable to this FIS Project]

Table 11: Summary of Non-Coastal Stillwater Elevations

[Not Applicable to this FIS Project]

Table 12: Stream Gage Information used to Determine Discharges

Flooding Source	Gage Identifier	Agency that Maintains Gage	Site Name	Drainage Area (Square Miles)	Period of Record	
					From	To
East Hickman Creek	03284530	USGS	East Hickman Cr at Delong Rd Near East Hickman, Ky	15.1	7/20/1998	4/12/2011
West Hickman Creek	03284550	USGS	West Hickman Creek at Jonestown, KY	11	8/11/1975	3/2/2007
West Hickman Creek	03284552	USGS	West Hickman Creek at Veterans Parkway near Lexington, KY	15.09	10/1/2012	10/31/2014

5.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Base flood elevations on the FIRM represent the elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report. Rounded whole-foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations. These whole-foot elevations may not exactly reflect the elevations derived from the hydraulic analyses. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM. The hydraulic analyses for this FIS were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

For streams for which hydraulic analyses were based on cross sections, locations of selected cross sections are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 6.3), selected cross sections are also listed on Table , “Floodway Data.”

A summary of the methods used in hydraulic analyses performed for this project is provided in Table 13. Roughness coefficients are provided in Table 14. Roughness coefficients are values representing the frictional resistance water experiences when passing overland or through a channel. They are used in the calculations to determine water surface elevations. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Antioch Church Tributary	Confluence with Muir Station Road Tributary	0.53 miles upstream of intersection with US-27	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Armstrong Mill Road Tributary	Confluence with Delong Road Tributary	0.21 miles upstream of intersection with Squires Hill Lane	HEC-1	HEC-2	9/1990	AE	None
Avon Tributary	Confluence with North Elkhorn Creek	0.34 miles upstream of intersection with I-64	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Avon Tributary 1	Confluence with Avon Tributary	0.35 miles upstream of confluence with Avon Tributary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Baughman Fork	Confluence with Boone Creek	3.18 miles upstream of intersection with North Cleveland Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Baughman Fork Tributary 1	Confluence with Baughman Fork	0.67 miles upstream of intersection with Athens Boonesboro Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Baughman Fork Tributary 2	Confluence with Baughman Fork	0.27 miles upstream of confluence with Baughman Fork	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Baughman Fork Tributary 3	Confluence with Baughman Fork	0.67 miles upstream of intersection with Cutters Hill Court	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Baughman Fork Tributary 3.1	Confluence with Baughman Fork Tributary 3	0.76 miles upstream of confluence with Baughman Fork Tributary 3	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Baughman Fork Tributary 3.1.1	Confluence with Baughman Fork Tributary 3.1	0.86 miles upstream of confluence with Baughman Fork Tributary 3.1	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Beacon Hill Tributary	Confluence with Wolf Run	0.08 miles upstream of intersection with Holly Springs Drive	HEC-1	HEC-2	9/1990	AE	None
Bethel Road Tributary	Confluence with Town Branch	0.76 miles upstream of intersection with Yarnallton Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Big Elm Tributary	Confluence with Vaughns Branch	0.73 miles upstream of intersection with Harrodsburg Road	HEC-1	HEC-2	9/1990	AE	None
Big Tributary	Confluence with David Fork	0.60 miles upstream of intersection with Winchester Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
BM 897 Tributary	Confluence with North Elkhorn Creek	0.22 miles upstream of intersection with New Town Pike	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
BM 907-39 Tributary	Confluence with UK Agriculture Branch	0.96 miles upstream of confluence with UK Agriculture Branch	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Boggs Fork	Confluence with Boone Creek	2.23 miles upstream of intersection with I-75	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Boggs Fork Tributary 2	Confluence with Boggs Fork	0.46 miles downstream of confluence with Boggs Fork	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Boone Creek	Confluence with Kentucky River	1.08 miles upstream of intersection with Todds Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Boone Creek Tributary 1	Confluence with Boone Creek	0.61 miles upstream of confluence with Boone Creek	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Boone Creek Tributary 2	Confluence with Boone Creek	1.17 miles upstream of confluence with Boone Creek	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Bowman Mill Tributary	Confluence with South Elkhorn Creek	0.17 miles upstream of intersection with Palomar Boulevard	XP-SWMM v. 8.52	HEC-RAS v. 4.1.0	7/2004	AE	None
Bracktown Branch	Confluence with Town Branch	0.03 miles upstream of intersection with Greendale Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Bracktown Branch Tributary 1	Confluence with Bracktown Branch	0.13 miles upstream of intersection with Ruffian Way	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Brighton Tributary	Confluence with North Elkhorn Creek	0.16 miles upstream of intersection with I-75	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Bryan Station Spring Tributary	Confluence with North Elkhorn Creek	1.42 miles upstream of intersection with Railroad	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Bryan Station Spring Tributary 1	Confluence with Bryan Station Spring Tributary	0.53 miles upstream of intersection with Railroad	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Bryant Tributary	Confluence with North Elkhorn Creek	0.40 miles upstream of intersection with Polo Club Boulevard	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Cadentown Branch	Confluence with Lexington Reservoir No. 4	0.16 miles upstream of intersection with Old Todds Road	HEC-1	HEC-2	9/3/1992	AE	None
Cadentown Branch East	Confluence with Cadentown Branch	0.37 miles upstream of intersection with Todds Road	HEC-1	HEC-2	9/3/1992	AE	None
Cane Run	County boundary	0.02 miles upstream of intersection with N Broadway	HEC-1	HEC-2	9/3/1992	AE	None
Cane Run Tributary 1	Confluence with Cane Run	0.63 miles upstream of confluence with Cane Run	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Cave Creek	Confluence with South Elkhorn Creek	0.32 miles upstream of intersection with Ridgecane Road	HEC-1	HEC-2	9/3/1992	AE	None
Cave Hill Tributary	Confluence with Bowman Hill Tributary	0.56 miles upstream of confluence with Bowman Hill Tributary	XP-SWMM v. 8.52	HEC-RAS v. 4.1.0	7/2004	AE	None
Cemetery Tributary	Confluence with Lemons Mill Road Tributary	0.49 miles downstream of intersection with Lemons Mill Road Tributary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Colonial Drive Tributary	Confluence with Gardenside Tributary	0.51 miles upstream of intersection with Williamsburg Road	HEC-1	HEC-2	9/1990	AE	None
David Fork	Confluence with North Elkhorn Creek	0.26 miles upstream of intersection with North Cleveland Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
David Fork Tributary 1	Confluence with David Fork	0.04 miles upstream of intersection with North Cleveland Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Delong Road Tributary	Confluence with East Hickman Creek	0.29 miles upstream of intersection with Squire Oak Drive	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Dixie Tributary	0.36 miles downstream from intersection with county boundary	1.69 miles upstream of intersection with Georgetown Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Dogwood Tributary	Confluence with Cave Creek	0.05 miles upstream of intersection with Beaumont Centre Lane	HEC-1	HEC-2	9/3/1992	AE	None
Douglas Park Tributary	Confluence with Cane Run	0.10 miles upstream of intersection with Nandino Blvd	HEC-1	HEC-2	9/1990	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Drive-in Tributary	Confluence with South Elkhorn Creek	0.17 miles upstream of intersection with county boundary	Effective Flow Weighting	HEC-RAS v. 4.1.0	3/2012	AE	None
East Hickman Creek	County boundary	Confluence with Lexington Reservoir No.4	HEC-1	HEC-2	9/1990	AE	None
East Hickman Creek Tributary 1	Confluence with East Hickman Creek	0.65 miles upstream of intersection with Delong Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
East I-75 Tributary	Confluence with I-75 Tributary	0.22 miles upstream of intersection with Old Rosebud Road	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Eastland Park Tributary	Confluence with I-75 Tributary	0.31 miles upstream of intersection with Eastland Parkway	HEC-1	HEC-2	9/3/1992	AE	None
Elk Lick Creek	Confluence with Kentucky River	2.40 miles upstream of confluence with Kentucky River	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Elk Lick Creek Tributary 1	Confluence with Elk Lick Creek	0.71 miles upstream of confluence with Elk Lick Creek	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Five Pond Tributary	Confluence of intersection with North Elkhorn Creek Tributary	0.56 miles upstream of intersection with Barrington Lane	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Flintridge Drive Tributary	Confluence with Wilson Downing Tributary	0.17 miles upstream of confluence with Wilson Downing Tributary	HEC-1	HEC-2	9/3/1992	AE	None
Gardenside Tributary	Confluence with Wolf Run	0.14 miles upstream of intersection with Lane Allen Road	HEC-1	HEC-2	9/1990	AE	None
Goose Creek	County boundary	0.60 miles upstream of intersection with Greenwich Pike	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Goose Creek Tributary 1	Confluence with Goose Creek	0.08 miles upstream of intersection with county boundary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Greendale Road Tributary	Confluence with Bracktown Branch	0.31 miles upstream of confluence with Bracktown Branch	HEC-1	HEC-2	9/1990	AE	None
Greenwich Road Tributary	Confluence with Harp Innis Road Tributary	0.60 miles upstream of confluence with Harp Innis Road Tributary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Harp Innis Road Tributary	Confluence with North Elkhorn Creek	1.81 miles upstream of intersection with Greenwich Pike	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Harps Fork Creek	Confluence with Goose Creek	0.07 miles upstream of intersection with Hume Bedford Pike	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Heliport Tributary	Confluence with Highway 68-27 Tributary	1.49 miles upstream of intersection with Iron Works Pike	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Higbee Mill Road Tributary	Confluence with West Hickman Creek	0.90 miles upstream of intersection with Brookridge Drive	HEC-1	HEC-2	9/3/1992	AE	None
Highway 68-27 Tributary	Confluence with North Elkhorn Creek	0.08 miles upstream of intersection with The Grange Lane	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Highway 922 Tributary North Fork	Confluence with UK Agriculture Station Branch	1.16 miles upstream of confluence with UK Agriculture Station Branch	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Highway 922 Tributary South Fork	Confluence with Highway 900 Tributary North Fork	1.07 miles upstream of confluence with Highway 900 Tributary North Fork	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Howard Grove Tributary	Confluence with Avon Tributary	1.01 miles upstream of intersection with Castle Rock Way	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Huffman Mill Road Tributary	Confluence with North Elkhorn Creek	0.38 miles upstream of intersection with Old Lemons Mill Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Hughes Lane Tributary	Confluence with North Elkhorn Creek	0.89 miles upstream of intersection with Hughes Lane	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Hume Road Tributary	Confluence with North Elkhorn Creek	0.23 miles upstream of intersection with Hume Road	HEC-1	HEC-2	9/1990	AE	None
I-64 Tributary	Confluence with Cane Run	0.89 miles upstream of confluence with Cane Run	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
I-75 Tributary	Confluence with North Elkhorn Creek	0.26 miles upstream of intersection with Star Shoot Parkway	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
IBM Tributary	Confluence with Cane Run	0.60 miles upstream of intersection with New Circle Road	HEC-1	HEC-2	9/1990	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Idle Hour Tributary	Confluence with West Hickman Creek	0.38 miles upstream of confluence with West Hickman Creek	HEC-1	HEC-2	9/1990	AE	None
Indian Hills Tributary	Confluence with Stonewall Estates Tributary	0.39 miles upstream of intersection with Wellington Way	HEC-1	HEC-2	9/1990	AE	None
Interchange Tributary	Confluence with Avon Tributary	0.67 miles upstream of intersection with Haley Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Ironworks Tributary	Confluence with Cane Run	0.20 miles upstream of intersection with Rushing Wind Lane	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Jimtown Tributary	Confluence with Goose Creek	1.68 miles upstream of intersection with Ferguson Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Johnson Road Tributary	Confluence with North Elkhorn Creek	0.45 miles upstream of intersection with Bryan Station Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Jones Creek	Confluence with Boone Creek	1.23 miles upstream of downstream of North Cleveland Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Jones Creek Tributary 1	Confluence with Jones Creek	0.31 miles upstream of confluence with Jones Creek	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Jones Creek Tributary 2	Confluence with Jones Creek	0.58 miles upstream of intersection with North Cleveland Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Kearney Tributary	Confluence with Dixie Tributary	1.52 miles upstream of intersection with Georgetown Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Kentucky River	County boundary	County boundary	Gage Analysis	HEC-RAS v. 4.1.0	3/2012	AE	None
Kentucky River Tributary 1	Confluence with Kentucky River	1.60 miles upstream of intersection with Dry Branch Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Lansdowne Drive Tributary	Confluence with Tates Creek	0.24 miles upstream of intersection with Bellefonte Drive	HEC-1	HEC-2	9/3/1992	AE	None
Lemons Mill Road Tributary	Confluence with North Elkhorn Creek	1.49 miles upstream of intersection with Old Lemons Mill Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Manchester Branch	Confluence with South Elkhorn Creek	0.57 miles upstream of intersection with Back Gate Drive	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Manchester Branch Tributary 1	Confluence with Manchester Branch	0.29 miles upstream of confluence with Keeneland Boulevard	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Marble Creek	County boundary	0.56 miles upstream of intersection with Crawley Lane	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Mary Reynolds Creek	Confluence with Boone Creek	1.86 miles upstream of intersection with Todds Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Mattoxtown Tributary	Confluence with Mount Horeb Road Tributary	0.53 miles upstream of confluence with Mount Horeb Road Tributary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Melody Village Tributary	Confluence with West Hickman Creek	0.01 miles upstream of intersection with Tanbark Road	HEC-1	HEC-2	9/1990	AE	None
Mt. Horeb Road Tributary	Confluence with North Elkhorn Creek	2.09 miles upstream of intersection with Mount Horeb Pike	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Muir Station Road Tributary	Confluence with North Elkhorn Creek	1.13 miles upstream of intersection with Hughes Lane	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
North Branch A	Confluence with Huffman Mill Road Tributary	0.66 miles upstream of confluence with Huffman Mill Road Tributary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
North Branch B	Confluence with Highway 68-27 Tributary	0.27 miles upstream of intersection with Paris Pike	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
North Elkhorn Creek	0.27 miles downstream of intersection with county boundary	0.95 miles upstream of intersection with Blackford Parkway	Gage Analysis	HEC-RAS v. 4.1.0	3/2012	AE	None
North Elkhorn Creek Tributary 17	Confluence with North Elkhorn Creek	0.87 miles upstream of confluence with North Elkhorn Creek	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Old Pine Grove Tributary	0.20 miles downstream of intersection with county boundary	1.19 miles upstream of intersection with county boundary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Parkers Mill Road Tributary	Confluence with Cave Creek	0.90 miles upstream of intersection with Parkers Mill Road	HEC-1	HEC-2	9/3/1992	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Pine Grove Tributary	0.17 miles downstream of intersection with county boundary	1.70 miles upstream of intersection with county boundary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Pipeline Tributary	Confluence with Lexington Reservoir No. 4	0.05 miles upstream of intersection with Jouett Creek Drive	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Pleasant Ridge Church Tributary	Confluence with I-75 Tributary	0.16 miles upstream of intersection with Liberty Road	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Quarry Tributary	Confluence with South Elkhorn Creek	0.05 miles upstream of intersection with Foleys Trail	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Radio Tower Tributary	Confluence with East Hickman Creek	0.10 miles upstream of intersection with Kenesaw Drive	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Raven Run	Confluence with the Kentucky River	1.85 miles upstream of confluence with Kentucky River	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Raven Run Tributary 1	Confluence with Raven Run	0.13 miles upstream of confluence with Raven Run	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Reservoir Tributary	Confluence with Lexington Reservoir No. 4	0.06 miles upstream of intersection with Eureka Springs Drive	HEC-1	HEC-2	9/1990	AE	None
Reservoir Tributary East	Confluence with Lexington Reservoir No. 4	0.44 mile upstream of intersection with Yorkshire Blvd	HEC-1	HEC-2	9/3/1992	AE	None
Richmond Road Tributary	Confluence with Lexington Reservoir No. 4	0.15 miles upstream of intersection with Man O' War Boulevard	HEC-1	HEC-2	9/1990	AE	None
Shadeland Drive Tributary	Confluence with Tates Creek	0.15 miles upstream of intersection with Tates Creek Road	HEC-1	HEC-2	9/3/1992	AE	None
Shannon Run	Confluence with South Elkhorn Creek	1.79 miles upstream of intersection with James Lane	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Shannon Run Tributary 2	Confluence with Shannon Run	0.02 miles upstream of intersection with Military Pike	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Shannon Run Tributary 3	Confluence with Shannon run	0.02 miles upstream of intersection with county boundary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Shannon Run Tributary 4	Confluence with Shannon run	0.18 miles upstream of intersection with county boundary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Shannon Run Tributary 5	Confluence with Shannon run	0.15 miles upstream of intersection with county boundary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Shelby Branch	County boundary	0.97 miles upstream of intersection with Shelby Lane	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Shelby Branch Tributary 1	Confluence with Shelby Branch	0.31 miles upstream of intersection with Shelby Lane	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Shelby Branch Tributary 2	Confluence with Shelby Branch	1.22 miles upstream of confluence with Shelby Branch	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Shelby Branch Tributary 3	Confluence with Shelby Branch	1.31 miles upstream of confluence with Shelby Branch	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Shelby Branch Tributary 3.1	Confluence with Shelby Branch Tributary 3	0.76 miles upstream of confluence with Shelby Branch Tributary 3	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Sinkhole Stream	0.26 miles downstream of intersection with county boundary	0.29 miles upstream of county boundary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
South Elkhorn Creek	0.38 miles from Monticello Boulevard	0.45 miles upstream of intersection with county boundary	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Southpoint Tributary	Confluence with West Hickman Creek	0.48 miles upstream of intersection with Southpoint Drive	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Squires Road Tributary	Confluence with East Hickman Creek	0.16 miles upstream of intersection with Man O' War Blvd	HEC-1	HEC-2	9/1990	AE	None
Steeles Run	County boundary	0.20 miles upstream of intersection with Miss Alleged Drive	HEC-1	HEC-2	9/1990	AE	None
Stonewall Estates Tributary	Confluence with South Elkhorn Creek	0.48 miles upstream of intersection with Stone Road	HEC-1	HEC-2	9/1990	AE	None
Stonewall Estates Tributary 2	Confluence with Stonewall Estates Tributary	0.38 miles upstream of intersection with Wellington Way	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Tates Creek	Confluence with West Hickman Creek	0.31 miles upstream of intersection with Alumni Drive	HEC-1	HEC-2	9/3/1992	AE	None
Tiverton Way Tributary	Confluence with West Hickman Creek	0.97 miles upstream of intersection with Man O' War Blvd	HEC-1	HEC-2	9/3/1992	AE	None
Todds Road Tributary	Confluence with Lexington Reservoir No. 4	0.55 miles upstream of intersection with Deer Haven Lane	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Todds Road Tributary North	Confluence Todds Road Tributary	0.42 miles upstream of intersection with Autumn Ridge Drive	HEC-1	HEC-2	9/3/1992	AE	None
Town Branch	County boundary	0.20 miles upstream of intersection with Oliver Lewis Way	HEC-1	HEC-2	9/1990	AE	None
Town Branch Tributary 1	Confluence with Town Branch	0.03 miles upstream of intersection with Valley Avenue	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Town Branch Tributary 2	Confluence with Town Branch	0.41 miles upstream of intersection with Leestown Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Tributary to Bethel Rd Tributary	Confluence with Bethel Road Tributary	0.14 miles upstream of confluence with Bethel Road Tributary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	A	None
Turfland Mall Tributary	Confluence with Wolf Run	0.01 miles upstream of intersection with Lane Allen Road	HEC-1	HEC-2	9/1990	AE	None
Two Ponds Tributary	Confluence with Pleasant Ridge Church Tributary	0.16 miles upstream of intersection with Liberty Road	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
U.K. Agriculture Station Branch	Confluence with Cane Run	0.76 miles upstream of intersection with Newtown Pike	Effective Flow Weighting	HEC-RAS v. 4.1.0	3/2012	AE	None
U.S. Route 60 Tributary	Confluence with Eastland Park Tributary	0.19 miles upstream of confluence with Winchester Road	HEC-1	HEC-2	9/3/1992	AE	None
Unnamed Tributary to I-75 Tributary	Confluence with I-75 Tributary	0.30 miles upstream of intersection with Liberty Road	HEC-HMS v. 3.5	HEC-RAS v. 4.1.0	3/2012	AE	None
Unnamed Tributary to Lemons Mill Road Tributary	Confluence with Lemons Mill Tributary	0.34 miles upstream of confluence with Lemons Mill Tributary	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Unnamed Tributary to North Elkhorn Creek Tributary	Confluence with North Elkhorn Creek	0.19 miles upstream of confluence with North Elkhorn Creek	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Unnamed Tributary to Walnut Hill Church Tributary	Confluence with Walnut Hill Church Tributary	0.34 miles upstream of intersection with Old Richmond Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Vaughns Branch	Confluence with Wolf Run	1.48 miles upstream of intersection with Versailles Road	HEC-1	HEC-2	9/1990	AE	None
Walnut Hill Church Tributary	Confluence with East Hickman Creek	0.46 miles upstream of intersection with Old Richmond Road	Regression Equation	HEC-RAS v. 4.1.0	3/2012	AE	None
Waveland Museum Tributary	Confluence with South Elkhorn Creek	0.23 miles upstream of intersection with Winthrop Drive	HEC-1	HEC-2	9/3/1992	AE	None
West Hickman Creek	County boundary	Confluence Lexington Reservoir No. 3	HEC-HMS	HEC-RAS v. 4.1.0	*	AE	None
Wilson Downing Tributary	Confluence with West Hickman Creek	0.33 upstream of intersection with Lansdowne Drive	HEC-1	HEC-2	9/3/1992	AE	None

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits		Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
	Downstream Limit	Upstream Limit					
Wolf Run	Confluence with Town Branch	0.08 miles upstream of intersection with Plaza Drive	XP-SWMM v. 8.52	HEC-RAS v. 4.1.0	8/2004	AE	None

Table 14: Roughness Coefficients

Flooding Source	Channel “n”	Overbank “n”
Bowman Mill Tributary	0.014-0.050	0.030-0.070
Brighton Tributary	0.040	0.075-0.110
Bryant Tributary	0.040-0.045	0.035-0.070
Cave Hill Tributary	0.014-0.050	0.065-0.070
East I-75 Tributary	0.040-0.070	0.065-0.100
I-75 Tributary	0.055-0.065	0.065-0.085
Ironworks Tributary	0.030-0.060	0.070-0.080
Kentucky River	0.035-0.045	0.070-0.130
North Elkhorn Creek	0.050	0.080
Pipeline Tributary	0.025-0.060	0.045-0.090
Pleasant Ridge Church Tributary	0.050-0.055	0.080-0.150
Quarry Tributary	0.055-0.062	0.060-0.080
Radio Tower Tributary	0.030-0.065	0.045-0.080
South Elkhorn Creek	0.045	0.060-0.080
Southpoint Tributary	0.035-0.040	0.030-0.100
Stonewall Estates Tributary	0.040-0.050	0.060-0.120
Todds Road Tributary	0.040-0.050	0.070-0.090
Two Ponds Tributary	0.030-0.065	0.040-0.085
Unnamed Tributary to I-75 Tributary	0.025-0.060	0.040-0.085
West Hickman Creek	0.015-0.045	0.03-0.1
Wolf Run	0.014	0.022
Approximate Studies	0.040	0.070
Limited Detail Studies	0.025-0.060	0.045-0.110

5.3 Coastal Analyses

This section is not applicable to this FIS project.

Table 15: Summary of Coastal Analyses

[Not Applicable to this FIS Project]

5.3.1 Total Stillwater Elevations

This section is not applicable to this FIS project.

Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas

[Not Applicable to this FIS Project]

Table 16: Tide Gage Analysis Specifics

[Not Applicable to this FIS Project]

5.3.2 Waves

This section is not applicable to this FIS project.

5.3.3 Coastal Erosion

This section is not applicable to this FIS project.

5.3.4 Wave Hazard Analyses

This section is not applicable to this FIS project

Table 17: Coastal Transect Parameters

[Not Applicable to this FIS Project]

Figure 9: Transect Location Map

[Not Applicable to this FIS Project]

5.4 Alluvial Fan Analyses

This section is not applicable to this FIS project.

Table 18: Summary of Alluvial Fan Analyses

[Not Applicable to this FIS Project]

Table 19: Results of Alluvial Fan Analyses

[Not Applicable to this FIS Project]

SECTION 6.0 – MAPPING METHODS

6.1 Vertical and Horizontal Control

All FIS Reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum used for newly created or revised FIS Reports and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD29). With the completion of the North American Vertical Datum of 1988 (NAVD88), many FIS Reports and FIRMs are now prepared using NAVD88 as the referenced vertical datum.

Flood elevations shown in this FIS Report and on the FIRMs are referenced to NAVD88. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between NGVD29 and NAVD88 or other datum conversion, visit the National Geodetic Survey website at www.ngs.noaa.gov, or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey

SSMC-3, #9202
 1315 East-West Highway
 Silver Spring, Maryland 20910-3282
 (301) 713-3242

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the archived project documentation associated with the FIS Report and the FIRMs for this community. Interested individuals may contact FEMA to access these data.

To obtain current elevation, description, and/or location information for benchmarks in the area, please contact information services Branch of the NGS at (301) 713-3242, or visit their website at <http://www.ngs.noaa.gov/>.

The datum conversion factor in the revised 2008 study from NGVD29 to NAVD88 in Fayette County was -0.5 ft.

Table 20: Countywide Vertical Datum Conversion

[Not Applicable to this FIS Project]

Table 21: Stream-by-Stream Vertical Datum Conversion

[Not Applicable to this FIS Project]

6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA’s FIRM database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features. For example, the information contained in the Floodway Data table and Flood Profiles can be linked to the cross sections that are shown on the FIRMs. Additional information about the FIRM Database and its contents can be found in FEMA’s Guidelines and Standards for Flood Risk Analysis and Mapping <http://www.fema.gov/guidelines-and-standards-flood-risk-analysis-and-mapping>.

Base map information shown on the FIRM was derived from the sources described in Table 22.

Table 22: Base Map Sources

Data Type	Data Provider	Data Date	Data Scale	Data Description
Digital Orthophoto	NAIP	2012	2 feet	Color orthoimagery was provided for the county
Political boundaries	KY Geonet	2012	N/A	Municipal and county boundaries

Table 22: Base Map Sources

Data Type	Data Provider	Data Date	Data Scale	Data Description
Transportation Features	KY Geonet	2012	N/A	Roads and railroads
Surface Water Features	KY Geonet	2012	N/A	Modeling streams were derived from NHD stream centerlines digitized to the NAIP 2012 Imagery and supplemented by source LiDAR

6.3 Floodplain and Floodway Delineation

The FIRM shows tints, screens, and symbols to indicate floodplains and floodways as well as the locations of selected cross sections used in the hydraulic analyses and floodway computations.

For riverine flooding sources, the mapped floodplain boundaries shown on the FIRM have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23.

In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

The floodway widths presented in this FIS Report and on the FIRM were computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. Table 2 indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 24, "Floodway Data."

Table 23: Summary of Topographic Elevation Data used in Mapping

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Scale	Contour Interval	Citation
Lexington-Fayette Urban County Government, Kentucky	HUC 05100205	LiDAR	1 meter GSD	2 ft	KYGeonet

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
ARMSTRONG MILL ROAD TRIBUTARY								
A	0.04	24	78	3.3	951.7	951.7	952.6	0.9
B	0.14	13	30	8.7	956.2	956.2	956.2	0.0
C	0.31	86	53	4.5	967.8	967.8	967.8	0.0
D	0.44	112	501	0.4	977.1	977.1	977.1	0.0
E	0.58	25	53	3.3	980.5	980.5	981.4	0.9
BEACON HILL TRIBUTARY								
A	0.05	58.0	394	2.6	923.7	923.7	924.7	1.0
BIG ELM TRIBUTARY								
A	0.13	220	3019	0.5	928.4	928.4	929.4	1.0
B	0.21	123	997	1.5	930.0	930.0	931.0	1.0
C	0.46	83	473	2.8	937.1	937.1	938.1	1.0
D	0.63	45	287	4.7	939.1	939.1	940.0	0.9
E	1.09	79	348	3.5	964.6	964.6	965.5	0.9
F	1.12	56 ²	-	-	965.1	965.1	966.1	1.0

¹ MILES ABOVE MOUTH

² FLOODWAY WIDTH AT THIS SECTION HAS BEEN REVISED BASED ON NEW TOPOGRAPHY. NO NEW ANALYSIS HAS BEEN PERFORMED.

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

**ARMSTRONG MILL ROAD TRIBUTARY-BEACON HILL TRIBUTARY-
BIG ELM TRIBUTARY**

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
BOWMAN MILL TRIBUTARY								
A	605 ¹	110	114	3.5	893.9	893.9	893.9	0.0
B	982 ¹	84	131	4.4	896.6	896.6	896.6	0.0
C	1516 ¹	110	125	4.8	901.0	901.0	901.0	0.0
D	1759 ¹	104	107	6.8	907.0	907.0	907.0	0.0
E	2414 ¹	14	62	5.2	913.7	913.7	913.7	0.0
F	2678 ¹	11	15	9.0	923.8	923.8	923.8	0.0
G	3099 ¹	60	179	3.3	925.9	925.9	925.9	0.0
H	3652 ¹	66	14	8.0	939.9	939.9	939.9	0.0
BRACKTOWN BRANCH								
A	0.09 ²	147	912	1.6	847.2	847.2	848.2	1.0
B	0.13 ²	185	1129	1.5	848.3	848.3	849.3	1.0
C	0.39 ²	271	1829	0.9	857.2	857.2	858.2	1.0
D	0.78 ²	40	151	11.0	863.3	863.3	864.3	1.0
E	1.54 ²	50	208	6.9	885.8	885.8	886.7	0.9
F	2.02 ²	92	360	4.3	893.7	893.7	894.6	0.9
G	2.41 ²	41	138	10.5	900.9	900.9	901.6	0.7

¹ FEET ABOVE CONFLUENCE WITH SOUTH ELKHORN CREEK

² MILES ABOVE CONFLUENCE WITH TOWN BRANCH

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

BOWMAN MILL TRIBUTARY -BRACKTOWN BRANCH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
BRIGHTON TRIBUTARY								
A	170	75	226	3.0	934.7	934.1 ²	934.8	0.8
B	1347	36	117	5.8	939.1	939.1	939.6	0.5
C	1699	39	124	5.4	941.9	941.9	942.7	0.8
D	1763	83	296	2.2	943.7	943.7	943.9	0.2
E	2242	75	129	5.0	945.1	945.1	945.1	0.1
F	2741	48	245	2.1	950.1	950.1	950.2	0.1
G	3095	33	100	5.1	951.0	951.0	951.9	0.8
H	3259	55	146	3.5	952.4	952.4	953.2	0.8
I	5499	100	120	2.9	963.7	963.7	963.8	0.1
J	5605	131	115	3.1	964.5	964.5	964.5	0.0
K	5883	16	211	1.5	979.1	979.1	979.1	0.0
L	6532	45	368	0.8	979.2	979.2	979.6	0.5
M	6793	297	1447	0.3	986.9	986.9	986.9	0.0
N	6980	198	1109	0.5	988.9	988.9	988.9	0.0
O	7453	132	1018	0.5	988.9	988.9	988.9	0.0

¹ FEET ABOVE CONFLUENCE WITH NORTH ELKHORN CREEK

² ELEVATIONS WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM NORTH ELKHORN CREEK

TABLE 24

**FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

BRIGHTON TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
BRYANT TRIBUTARY								
A	80	160	189	2.4	943.5	942.64 ²	942.6	0.0
B	1595	30	122	3.7	949.3	949.3	950.2	0.9
C	1682	198	256	1.9	953.0	953.0	953.0	0.0
D	2193	121	157	3.1	953.3	953.3	953.3	0.0
E	3225	20	71	6.9	960.7	960.7	961.2	0.5
F	3495	112	324	1.6	968.9	968.9	968.9	0.0
G	4200	90	183	2.9	969.6	969.6	969.6	0.0
H	4340	22	55	8.7	970.5	970.5	970.6	0.1
I	5250	40	102	4.7	979.9	979.9	980.5	0.6
J	5507	60	114	4.2	983.3	983.3	983.4	0.1

¹ FEET ABOVE CONFLUENCE WITH NORTH ELKHORN CREEK

² ELEVATIONS WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM NORTH ELKHORN CREEK

TABLE 24

**FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

BRYANT TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
CADENTOWN BRANCH								
A	0.34	141	1087	1.1	983.6	983.6	984.5	0.9
B	0.75	144	445	2.6	990.9	990.9	991.7	0.8
C	0.85	203 ²	-	-	992.0	992.0	992.8	0.8
D	1.14	13 ²	-	-	1005.9	1005.9	1005.9	0.0
E	1.27	34	96	4.5	1017.4	1017.4	1017.7	0.3
CADENTOWN BRANCH EAST								
A	0.08	0	-	-	991.8	991.8	992.4	0.6
B	0.23	30 ²	-	-	1005.3	1005.3	1005.3	0.0
C	0.59	71 ²	-	-	1017.3	1017.3	1017.4	0.1

¹ MILES ABOVE MOUTH

² FLOODWAY WIDTH AT THIS SECTION HAS BEEN REVISED BASED ON NEW TOPOGRAPHY. NO NEW ANALYSIS HAS BEEN PERFORMED.

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

CADENTOWN BRANCH- CADENTOWN BRANCH EAST

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
CANE RUN								
A	8.07	344	1,390	3.0	845.0	845.0	845.5	0.5
B	8.51	198	1,243	3.4	846.2	846.2	847.2	1.0
C	8.91	82	643	6.6	850.8	850.8	851.6	0.8
D	9.05	122	1,148	3.7	854.4	854.4	854.8	0.4
E	9.23	125	1,024	4.1	854.6	854.6	855.3	0.7
F	9.30	127	1,207	3.5	855.0	855.0	855.9	0.9
G	9.42	353	2,928	1.4	856.5	856.5	857.5	1.0
H	9.60	397	2,306	1.8	856.5	856.5	857.5	1.0
I	9.85	509	2,620	1.6	858.0	858.0	859.0	1.0
J	10.23	226	826	5.1	859.0	859.0	859.5	0.5
K	10.65	300	1,735	2.4	862.8	862.8	863.6	0.8
L	10.93	356	1,407	3.0	866.3	866.3	867.0	0.8
M	11.33	371	2,421	1.9	871.4	871.4	871.8	0.4
N	11.94	240	1,067	5.5	876.3	876.3	876.8	0.5
O	12.36	220	978	5.8	879.6	879.6	880.3	0.7
P	12.78	139	741	6.8	883.6	883.6	884.2	0.6
Q	12.89	205	1,577	3.4	889.4	889.4	889.8	0.4
R	13.25	330	1,572	3.4	891.4	891.4	891.8	0.4
S	13.72	212	1,063	5.0	894.7	894.7	895.4	0.7
T	14.33	280	1,197	3.7	902.2	902.2	902.5	0.3
U	14.74	206	1,026	5.8	908.9	908.9	909.3	0.4
V	15.63	160	909	7.3	922.3	922.3	923.1	0.8
W	15.72	393	1,372	2.5	922.7	922.7	923.4	0.7
X	15.91	52 ²	-	-	929.9	929.9	929.9	0.0
Y	16.05	42 ²	-	-	931.4	931.4	932.2	0.8
Z	16.27	124	487	4.1	939.7	939.7	939.9	0.2
AA	16.55	32 ²	-	-	941.0	941.0	942.0	1.0
AB	16.63	35 ²	-	-	954.8	954.8	954.8	0.0

¹ Miles above county boundary

² Floodway at this section has been revised based on new topography. No new analysis has been performed.

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

CANE RUN

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
CAVE CREEK								
A	0.08 ¹	85	438	4.5	861.5	858.1 ³	851.8	0.7
B	0.27 ¹	56	364	5.4	864.0	864.0	864.7	0.7
C	0.49 ¹	139	700	2.8	867.3	867.3	868.3	1.0
D	0.66 ¹	118	661	2.1	868.9	868.9	869.9	1.0
E	0.99 ¹	203	515	2.7	875.4	875.4	875.5	0.1
F	1.52 ¹	165	944	1.5	891.2	891.2	891.8	0.6
G	1.59 ¹	146	675	2.1	891.6	891.6	892.3	0.7
H	1.72 ¹	111	545	2.6	895.1	895.1	896.1	1.0
I	1.96 ¹	155	1071	1.5	903.6	903.6	904.6	1.0
J	2.73 ¹	248	1175	0.7	922.6	922.6	922.6	0.0
K	3.00 ¹	224	783	0.7	931.9	931.9	931.9	0.0
L	3.28 ¹	29	73	7.1	935.4	935.4	935.4	0.0
CAVE HILL TRIBUTARY								
A	676 ²	30	42	4.1	912.3	912.3	912.3	0.0
B	1241 ²	66	18	5.6	925.9	925.9	925.9	0.0
C	1397 ²	126	36	2.8	928.6	928.6	928.6	0.0
D	1885 ²	108	18	1.9	933.3	933.3	933.3	0.0
E	2385 ²	69	3	8.3	949.3	949.3	949.3	0.0
F	2777 ²	45	238	0.5	954.4	954.4	954.4	0.0
COLONIAL DRIVE TRIBUTARY								
A	0.09 ¹	31	95	8.9	910.7	910.7	911.7	1.0

¹ MILES ABOVE MOUTH

² FEET ABOVE CONFLUENCE WITH BOWMAN MILL TRIBUTARY

³ ELEVATIONS WITHOUT CONSIDERING BACKWATER EFFECTS FROM SOUTH ELKHORN CREEK

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

CAVE CREEK-CAVE HILL TRIBUTARY-
COLONIAL DRIVE TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
DELONG ROAD TRIBUTARY								
A	0.09 ¹	43	178	2.4	921.6	921.6	922.3	0.7
B	0.26 ¹	42	97	4.3	927.8	927.8	928.4	0.6
C	0.35 ¹	78	118	3.2	933.0	933.0	933.1	0.1
D	0.67 ¹	21	87	4.0	944.5	944.5	944.6	0.1
E	0.92 ¹	- ³	-	-	960.0	960.0	960.8	0.8
F	1.24 ¹	- ³	-	-	974.3	974.3	974.5	0.2
DOGWOOD TRIBUTARY								
A	0.03 ¹	221	62	4.9	946.9	938.5 ⁴	939.5	1.0
B	0.26 ¹	101	405	0.7	951.2	951.2	951.9	0.7
DOUGLAS PARK TRIBUTARY								
A	568 ²	28	103	8.8	904.6	904.6 ⁵	904.9	0.3
B	1283 ²	36	106	8.6	912.0	912.0	912.5	0.5
C	2486 ²	43	78	7.6	924.5	924.5	925.0	0.5
D	3323 ²	17	75	7.4	934.1	934.1	934.8	0.7
E	4411 ²	27	70	5.0	944.6	944.6	945.1	0.5
DRIVE-IN TRIBUTARY								
A	0.05 ¹	58	368	4.8	900.0	900.0 ⁶	901.0	1.0
B	0.53 ¹	132	652	2.7	905.5	905.5	906.5	1.0
C	1.09 ¹	137	615	2.6	914.2	914.2	915.2	1.0

¹ MILES ABOVE MOUTH

² FEET ABOVE MOUTH

³ FLOODWAY CONTAINED IN CULVERT

⁴ ELEVATIONS WITHOUT CONSIDERING BACKWATER EFFECTS FROM CAVE CREEK

⁵ ELEVATIONS WITHOUT CONSIDERING BACKWATER EFFECTS FROM CANE RUN

⁶ ELEVATIONS WITHOUT CONSIDERING BACKWATER EFFECTS FROM SOUTH ELKHORN CREEK

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

DELONG ROAD TRIBUTARY -DOGWOOD TRIBUTARY -
DOUGLAS PARK TRIBUTARY -DRIVE-IN TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
EAST HICKMAN CREEK								
A	4.91	167	1338	2.2	896.8	896.8	897.6	0.8
B	5.04	162	811	3.6	897.0	897.0	897.8	0.8
C	5.40	172	965	3.0	899.7	899.7	900.7	1.0
D	6.06	98	745	3.9	903.4	903.4	904.4	1.0
E	6.57	112	706	4.2	907.0	907.0	908.0	1.0
F	6.93	79	445	6.0	912.3	912.3	913.0	0.7
G	7.43	122	798	3.1	917.3	917.3	918.2	0.9
H	7.71	85	456	5.4	919.2	919.2	918.2	1.0
I	7.93	281	1304	1.9	921.2	921.2	921.9	0.7
J	8.35	61	218	10.1	922.4	922.4	923.3	0.9
K	8.70	29	173	8.7	926.4	926.4	927.1	0.7
L	8.97	129	617	2.4	931.1	931.1	932.0	0.9
M	9.14	127	471	3.2	931.5	931.5	932.0	0.5
N	9.37	93	397	3.4	932.8	932.8	933.8	1.0
O	9.47	63	348	3.9	933.9	933.9	934.9	1.0
P	9.62	70	389	3.5	935.5	935.5	936.3	0.8
Q	9.80	100	530	2.4	936.4	936.4	937.2	0.8
R	9.99	32	175	7.1	937.9	937.9	938.7	0.8
S	10.19	42	187	5.2	945.0	945.0	945.9	0.9

¹ MILES ABOVE COUNTY BOUNDARY

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

EAST HICKMAN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
EAST I-75 TRIBUTARY								
A	36	200	208	2.5	934.5	930.3 ²	930.4	0.2
B	394	70	74	7.1	934.5	932.5 ²	932.6	0.1
C	421	63	184	2.9	934.5	933.7 ²	934.7	1.0
D	811	30	86	6.1	934.9	934.9	935.3	0.4
E	1012	20	76	6.9	936.4	936.4	937.2	0.8
F	1210	404	174	3.1	941.1	941.1	942.1	1.0
G	1839	37	123	4.4	942.2	942.2	943.1	1.0
H	2650	22	63	6.8	947.3	947.3	947.9	0.6
I	3469	20	62	4.7	955.0	955.0	955.8	0.8
J	3694	12	36	8.0	956.4	956.4	957.2	0.8
K	4006	11	37	7.9	959.9	959.9	960.7	0.8
L	4242	162	202	2.0	969.0	969.0	970.0	1.0
M	4957	41	91	4.4	969.0	969.0	969.8	0.8
N	5247	36	71	5.7	972.8	972.8	972.8	0.0

¹ FEET ABOVE CONFLUENCE WITH I-75 TRIBUTARY

² ELEVATIONS WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM I-75 TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
EASTLAND PARK TRIBUTARY								
A	0.15	143	978	3.3	930.1	929.9 ²	930.8	0.9
B	0.42	141	702	4.6	934.0	934.0	934.8	0.8
C	0.60	125	355	5.7	937.0	937.0	937.5	0.5
D	0.91	30	183	11.1	944.1	944.1	944.5	0.4
E	1.04	41	293	5.4	948.6	948.6	949.6	1.0
F	1.54	- ³	-	-	962.5	962.5	963.4	0.9
FIVE POND TRIBUTARY								
A	1290	27	68	8.9	955.5	955.5	955.7	0.2
B	2680	17	38	8.1	968.3	968.3	968.6	0.3
C	3825	98	145	1.1	982.5	982.5	982.5	0.0
D	5275	18	24	6.6	997.4	997.4	997.4	0.0
FLINTRIDGE DRIVE TRIBUTARY								
A	0.03	50	156	2.0	965.0	965.0	966.0	1.0
B	0.15	46	91	3.4	972.8	972.8	972.8	0.0

¹ MILES ABOVE MOUTH

² ELEVATIONS WITHOUT CONSIDERING BACKWATER EFFECTS FROM I-75 TRIBUTARY

³ FLOODWAY WIDTH AT THIS SECTION HAS BEEN REVISED BASED ON NEW TOPOGRAPHY. NO NEW ANALYSIS HAS BEEN PERFORMED

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

EASTLAND PARK TRIBUTARY - FIVE POND TRIBUTARY -
FLINTRIDGE DRIVE TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
GARDENSIDE TRIBUTARY								
A	0.24	53	300	6.8	899.0	899.0	900.0	1.0
B	0.50	198	880	1.8	905.3	905.3	906.3	1.0
C	0.64	58	252	4.8	909.5	909.5	910.5	1.0
D	1.14	36	121	10.1	938.1	938.1	938.5	0.4
GREENDALE ROAD TRIBUTARY								
A	0.10	30	87	9.6	914.7	914.7	915.7	1.0
HIGBEE MILL ROAD TRIBUTARY								
A	0.12	63	220	4.4	895.8	895.3 ²	896.3	1.0
B	0.72	42	191	5.0	924.1	924.1	925.1	1.0
C	1.28	49	250	3.8	947.2	947.2	948.2	1.0
HUME ROAD TRIBUTARY								
A	0.03	47	157	4.5	909.3	909.3	910.3	1.0
B	0.40	51	154	4.4	918.4	918.4	919.4	1.0
C	0.68	30	103	6.5	930.1	930.1	930.6	0.5
D	0.86	54	138	4.9	936.0	936.0	936.7	0.7
E	0.98	54	183	3.7	939.8	939.8	940.5	0.7
F	1.10	71	232	1.7	944.8	944.8	945.8	1.0
G	1.39	33	103	3.2	954.4	954.4	955.2	0.8
H	1.61	33	48	6.8	962.2	962.2	962.7	0.5

¹Miles above mouth

²Elevations without consideration of backwater effects from West Hickman Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

GARDENSIDE TRIBUTARY-GREENDALE ROAD TRIBUTARY-
HIGBEE MILL ROAD TRIBUTARY-HUME ROAD TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
I-75 TRIBUTARY								
A	0.09	177	835	2.3	913.3	913.1	914.1	1.0
B	0.87	73	407	5.1	921.9	921.9	922.7	0.8
C	0.91	507	5640	1.1	929.9	929.9	930.9	1.0
D	1.06	411	2221	0.7	930.2	930.2	931.2	1.0
E	1.25	64	587	2.6	931.1	931.1	931.8	0.7
F	1.28	429	1663	1.0	934.1	934.1	934.1	0.0
G	1.53	338	840	2.1	934.5	934.5	934.5	0.0
H	1.58	405	1932	0.8	939.9	939.9	939.9	0.0
I	1.84	140	497	3.2	940.4	940.4	940.7	0.2
J	2.06	120	420	3.3	943.5	943.5	944.1	0.6
K	2.22	95	307	4.5	946.9	946.9	947.6	0.7
L	2.60	50	199	4.0	955.9	955.9	956.8	0.9
M	2.68	19	98	7.2	957.1	957.1	957.9	0.8
N	2.70	84	433	1.6	960.2	960.2	960.7	0.5
O	2.80	65	185	3.2	961.3	961.3	961.9	0.6
P	3.00	35	121	4.9	967.9	967.9	968.7	0.8
Q	3.12	55	160	3.7	974.0	974.0	974.3	0.3
R	3.18	19	66	4.0	975.0	975.0	975.7	0.7
S	3.21	193	828	0.4	982.2	982.2	982.2	0.0
T	3.27	132	241	1.2	982.2	982.2	982.2	0.0
U	3.34	31	34	5.3	985.7	985.7	986.0	0.3
V	3.41	21	54	3.3	990.8	990.8	990.9	0.2
W	3.50	14	26	6.1	995.6	995.6	995.7	0.2

¹ MILES ABOVE CONFLUENCE WITH NORTH ELKHORN CREEK

TABLE 24

**FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

I-75 TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
I-75 TRIBUTARY								
X	3.50	71	114	1.4	996.4	996.4	996.5	0.1
Y	3.51	30	102	1.4	997.6	997.6	998.5	0.9
Z	3.55	9	25	5.8	997.8	997.8	998.8	1.0
AA	3.57	12	30	4.9	1000.6	1000.6	1001.0	0.4
AB	3.60	9	26	5.5	1003.2	1003.2	1003.8	0.6
AC	3.66	14	28	5.2	1008.6	1008.6	1008.7	0.1
AD	3.67	126	239	0.3	1011.1	1011.1	1011.1	0.0
AE	3.69	64	67	1.0	1011.1	1011.1	1011.1	0.0
AF	3.70	13	12	5.5	1013.3	1013.3	1013.3	0.0

¹ MILES ABOVE CONFLUENCE WITH NORTH ELKHORN CREEK

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

I-75 TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
IBM TRIBUTARY								
A	0.12	388	1378	2.5	923.1	923.1	924.0	0.9
B	0.16	101	270	8.1	925.5	925.5	925.5	0.0
C	0.19	108	923	2.4	930.8	930.8	931.5	0.7
D	0.27	72	592	2.1	932.7	932.7	933.7	1.0
E	0.42	80	709	2.0	939.0	939.0	940.0	1.0
F	0.61	66	351	3.2	940.7	940.7	941.7	1.0
G	0.73	38	115	9.6	944.3	944.3	944.8	0.5
IDLE HOUR TRIBUTARY								
A	0.13	31	134	6.5	976.6	973.3 ²	973.3	0.0
B	0.39	49	406	2.1	986.4	986.4	986.4	0.0
C	0.49	54	364	2.4	986.4	986.4	986.5	0.1
INDIAN HILLS								
A	0.03	41	108	8.0	945.5	945.5	945.8	0.3
B	0.13	53	185	4.7	952.9	952.9	953.3	0.4
C	0.24	43	102	8.4	961.1	961.1	961.1	0.0
D	0.46	46	82	7.6	975.4	975.4	975.8	0.4

¹Miles above mouth

²Elevation without considering backwater effects from West Hickman Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
IRONWORKS TRIBUTARY								
A	252	58	132	4.3	856.1	852.1 ²	852.8	0.7
B	816	51	114	5.0	856.1	854.7 ²	855.7	1.0
C	893	51	150	3.8	856.2	856.2	856.7	0.5
D	1387	27	85	6.6	859.0	859.0	859.6	0.6
E	1802	35	95	5.9	863.2	863.2	863.7	0.6
F	1856	70	262	2.1	865.8	865.8	866.0	0.1
G	2165	17	58	9.5	866.3	866.3	866.6	0.2
H	2259	86	394	1.3	869.6	869.6	869.9	0.3
I	2540	138	283	1.8	869.7	869.7	870.1	0.3
J	2816	51	106	4.9	871.2	871.2	871.3	0.1
K	3219	66	168	3.1	874.4	874.4	875.1	0.7
L	3706	47	107	4.4	876.3	876.3	876.8	0.5
M	4244	28	58	4.2	880.0	880.0	880.5	0.6
N	5013	25	55	4.4	886.3	886.3	886.9	0.6
O	5156	69	171	1.2	888.9	888.9	888.9	0.0
P	5243	27	71	2.8	889.0	889.0	889.0	0.0
Q	5451	40	66	3.0	889.4	889.4	889.7	0.3
R	5890	51	83	2.6	894.4	894.4	895.3	0.9
S	5962	557	4983	0.0	901.0	901.0	901.0	0.0
T	7127	286	297	0.7	901.0	901.0	901.0	0.0
U	7310	171	196	1.1	902.4	902.4	902.7	0.3
V	7468	51	81	2.7	902.6	902.6	903.0	0.4
W	7544	61	49	4.8	903.6	903.6	903.6	0.0

¹ FEET ABOVE CONFLUENCE WITH CANE RUN

² ELEVATIONS WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM CANE RUN

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

IRONWORKS TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
IRONWORKS TRIBUTARY								
X	7627 ¹	531	2107	0.1	909.0	909.0	909.0	0.0
Y	8177 ¹	47	82	2.9	909.5	909.5	910.3	0.8
Z	8484 ¹	12	37	4.5	912.3	912.3	912.9	0.5
KENTUCKY RIVER								
A	838389 ²	596 ³	23907	4.7	582.6	582.6	583.0	0.5
B	843150 ²	387 ³	19798	4.9	583.1	583.1	583.6	0.5
C	848207 ²	408 ³	19918	4.9	583.4	583.4	583.9	0.5
D	851593 ²	421 ³	20451	4.7	583.8	583.8	584.3	0.5
E	853233 ²	352 ³	19156	5.1	583.9	583.9	584.5	0.5
F	856413 ²	629 ³	25343	3.8	584.3	584.3	584.8	0.5
G	863318 ²	377 ³	19947	4.9	584.9	584.9	585.4	0.5
H	866367 ²	709 ³	24742	3.9	585.2	585.2	585.7	0.5
I	875442 ²	408 ³	18201	5.3	585.9	585.9	586.4	0.6
J	878391 ²	374 ³	17999	5.4	586.2	586.2	586.8	0.5
K	883385 ²	408 ³	18630	5.2	586.9	586.9	587.5	0.5
L	886142 ²	329 ³	17795	5.4	587.3	587.3	587.8	0.6
M	888228 ²	423 ³	20622	4.7	587.6	587.6	588.1	0.5
N	892938 ²	324 ³	17682	5.5	588.0	588.0	588.6	0.6
O	899608 ²	398 ³	17140	5.6	588.9	588.9	589.4	0.5
P	901001 ²	563 ³	21754	4.5	589.2	589.2	589.8	0.6
Q	901901 ²	412 ³	17389	5.6	589.6	589.6	590.1	0.5
R	902494 ²	457 ³	18955	5.1	589.8	589.8	590.3	0.5
S	903571 ²	541 ³	23054	4.2	590.1	590.1	590.6	0.5

¹ FEET ABOVE CONFLUENCE WITH CANE RUN

² FEET ABOVE MOUTH

³ WIDTH EXTENDS BEYOND THE COUNTY BOUNDARY

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

IRONWORKS TRIBUTARY - KENTUCKY RIVER

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
LANSDOWNE DRIVE TRIBUTARY								
A	0.04	43	313	4.4	943.5	939.72 ²	940.7	1.0
B	0.19	145	486	2.8	948.0	943.5 ²	943.6	0.1
C	0.28	50	210	6.5	949.3	945.1 ²	945.2	0.1
D	0.52	91	626	2.2	953.5	953.5	954.3	0.8
E	0.64	100	292	4.7	954.4	954.4	955.3	0.9
F	0.91	80	317	4.3	961.8	961.8	962.7	0.9
G	1.06	50	245	5.6	966.2	966.2	966.7	0.5
H	1.16	- ³	- ³	- ³	969.5	969.5	- ³	- ³
MELODY VILLAGE TRIBUTARY								
A	0.10	29	78	4.1	897.4	897.4	897.4	0.0
B	0.36	46	127	2.5	902.0	902.0	903.0	1.0
C	0.53	41	76	3.4	911.3	911.3	911.9	0.6

¹ MILES ABOVE MOUTH

² ELEVATIONS WITHOUT CONSIDERING BACKWATER EFFECTS FROM TATES CREEK

³ DATA NOT AVAILABLE

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
NORTH ELKHORN CREEK								
V	86.11	216	1159	3.2	900.8	900.8	901.8	1.0
W	86.45	123	791	4.7	903.0	903.0	904.0	1.0
X	86.70	91	593	4.8	905.1	905.1	906.0	0.9
Y	87.31	327	1283	2.2	908.2	908.2	909.2	1.0
Z	87.62	149	774	3.3	912.2	912.2	912.5	0.3
AA	87.81	165	725	3.5	913.0	913.0	914.0	1.0
AB	88.07	131	476	2.5	914.9	914.9	915.9	1.0
AC	88.69	133	514	2.3	921.3	921.3	922.3	1.0
AD	89.15	66	239	5.0	925.6	925.6	926.6	1.0
AE	89.23	166	644	2.6	928.0	928.0	929.0	1.0
AF	89.25	240	1414	1.2	931.5	931.49	932.0	0.5
AG	89.44	270	906	1.8	931.9	931.87	932.5	0.7
AH	89.89	66	261	4.9	936.5	936.47	937.0	0.6
AI	89.92	76	342	3.8	937.5	937.53	938.1	0.6

¹ MILES ABOVE MOUTH

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

NORTH ELKHORN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
NORTH ELKHORN CREEK TRIBUTARY								
A	1125	99	223	7.5	945.8	945.8	946.0	0.2
B	2175	417	3220	0.6	955.2	955.2	955.7	0.5
C	3165	70	608	3.9	956.6	956.6	956.8	0.2
D	4870	51	174	4.8	958.1	958.1	959.0	0.9
E	5855	58	245	3.4	963.0	963.0	964.0	1.0
F	7360	34	136	5.3	968.9	968.9	969.9	1.0
PARKERS MILL TRIBUTARY								
A	0.09	234	1302	0.9	871.6	871.6	872.6	1.0
B	0.28	60	218	5.3	876.2	876.2	877.0	0.8
C	0.47	117	554	2.1	884.5	884.5	885.5	1.0
D	0.94	75	318	3.6	900.3	900.3	901.2	0.9

¹ DISTANCE ABOVE MOUTH: NORTH ELKHORN CREEK TRIBUTARY IN FEET, PARKERS MILL TRIBUTARY IN MILES

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
PIPELINE TRIBUTARY								
A	175	78	235	3.1	969.0	969.0	969.0	0.0
B	212	414	1921	0.4	970.1	970.1	970.1	0.0
C	1203	164	225	2.3	970.5	970.5	970.5	0.0
D	1910	29	110	4.7	973.4	973.4	974.1	0.7
E	1961	40	221	2.3	975.6	975.6	976.3	0.7
F	2714	116	332	1.5	976.2	976.2	977.0	0.8
G	3602	78	187	2.6	978.9	978.9	979.4	0.5
H	3719	30	170	2.8	979.1	979.1	979.7	0.6
I	3760	105	312	1.5	980.0	980.0	980.9	0.9
J	4018	206	441	1.1	980.8	980.8	981.5	0.7
K	4079	60	241	1.9	982.1	982.1	982.5	0.4
L	4188	474	4644	0.2	991.4	991.4	991.4	0.0
M	6327	84	113	3.5	991.7	991.7	991.7	0.0
N	6498	76	122	3.2	992.8	992.8	993.2	0.4
O	6908	398	136	3.3	998.2	998.2	998.2	0.0
P	7527	51	110	4.1	998.5	998.5	998.6	0.1
Q	7670	57	195	2.3	999.5	999.5	1000.3	0.8
R	7763	42	68	6.6	1003.0	1003.0	1003.0	0.0
S	7827	534	3,061	0.1	1008.2	1008.2	1008.2	0.0
T	8556	150	120	1.8	1008.2	1008.2	1008.2	0.0
U	8657	162	172	1.6	1009.1	1009.1	1009.1	0.0
V	8820	147	332	0.8	1009.2	1009.2	1009.2	0.0

1 FEET ABOVE MOUTH

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

PIPELINE TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
PLEASANT RIDGE CHURCH TRIBUTARY								
A	254	70	236	3.0	947.0	946.8 ²	947.7	0.9
B	2542	32	113	5.2	956.5	956.5	957.2	0.7
C	2820	35	146	2.2	961.9	961.9	962.5	0.6
D	2915	31	162	2.0	963.5	963.5	964.1	0.6
E	3202	48	168	1.9	964.0	964.0	964.7	0.7
F	3315	240	997	0.4	969.8	969.8	969.8	0.0
G	4056	70	138	2.4	970.3	970.3	970.3	0.0
H	4362	32	60	5.5	971.7	971.7	971.7	0.0
I	4795	17	58	5.7	977.1	977.1	977.8	0.7
J	5175	37	119	2.8	980.9	980.9	981.8	0.9
K	5257	30	177	1.3	985.2	985.2	985.9	0.7
L	5586	36	89	2.6	985.4	985.4	986.2	0.8
M	5708	132	233	0.9	994.3	994.3	994.3	0.0
N	6023	50	142	1.5	994.4	994.4	994.4	0.0

¹ FEET ABOVE CONFLUENCE WITH I-75 TRIBUTARY

² ELEVATIONS WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM I-75 TRIBUTARY

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

PLEASANT RIDGE CHURCH TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
QUARRY TRIBUTARY								
A	0.07	33	100	3.8	916.7	916.3 ²	917.3	1.0
B	0.52	35	110	3.5	942.8	942.8	943.7	0.9
C	0.56	28	67	6.2	945.4	945.4	945.6	0.2
D	0.58	28	83	5.0	946.7	946.7	947.6	0.9
E	0.59	29	106	3.9	948.6	948.6	949.6	1.0
F	0.65	41	119	3.4	953.2	953.2	954.2	0.9
G	0.71	40	91	4.4	956.7	956.7	957.2	0.5
H	0.75	20	62	5.4	959.9	959.9	960.7	0.8
I	0.75	19	73	4.6	960.7	960.7	961.0	0.3
J	0.8	42	184	1.7	966.3	966.3	966.3	0.0
K	0.83	24	128	2.5	966.6	966.6	966.7	0.1

¹ FEET ABOVE CONFLUENCE WITH SOUTH ELKHORN CREEK

² ELEVATIONS WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM SOUTH ELKHORN CREEK

TABLE 24

**FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

QUARRY TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
RADIO TOWER TRIBUTARY								
A	56	100	409	0.3	907.3	907.2 ²	908.2	1.0
B	364	26	41	2.5	909.8	909.8	910.1	0.3
C	456	18	45	2.3	911.9	911.9	912.0	0.0
D	539	30	35	2.9	911.9	911.9	912.2	0.3
E	812	47	38	2.7	917.1	917.1	917.0	0.0
F	1034	511	5781	0.2	937.9	937.9	937.9	0.0
G	3049	137	398	2.2	938.0	938.0	938.0	0.0
H	3339	120	227	3.8	938.6	938.6	938.6	0.0
I	4006	38	131	4.4	944.5	944.5	945.2	0.7
J	4318	25	91	6.3	946.7	946.7	947.1	0.5
K	4677	21	82	7.0	950.4	950.4	951.1	0.7
L	4939	34	107	5.3	954.1	954.1	954.3	0.2
M	4988	47	160	2.7	956.2	956.2	956.3	0.1
N	5104	30	107	4.0	956.2	956.2	956.5	0.3
O	6130	35	74	3.9	968.6	968.6	969.3	0.7
P	6217	39	110	1.4	970.0	970.0	970.4	0.5
Q	6283	38	71	2.2	970.1	970.1	970.5	0.4
R	6346	154	596	0.3	976.0	976.0	976.0	0.0
S	6613	93	150	1.3	976.0	976.0	976.0	0.0
T	6872	13	31	6.2	976.8	976.8	976.9	0.0
U	7143	25	52	3.8	980.4	980.4	980.7	0.3
V	7311	101	110	1.8	987.1	987.1	987.1	0.0
W	7619	50	91	2.2	987.2	987.2	987.2	0.0

¹ FEET ABOVE CONFLUENCE WITH EAST HICKMAN CREEK

² ELEVATIONS WITHOUT CONSIDERING BACKWATER EFFECTS FROM EAST HICKMAN CREEK

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

RADIO TOWER TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
RADIO TOWER TRIBUTARY								
X	7765	21	35	5.7	988.4	988.4	988.4	0.0
Y	8147	16	27	2.8	994.3	994.3	995.0	0.7
Z	8606	12	78	0.7	1001.2	1001.2	1001.2	0.0
AA	8651	200	1175	0.1	1007.8	1007.8	1007.8	0.0
AB	8749	144	402	0.2	1007.8	1007.8	1007.8	0.0

¹ FEET ABOVE CONFLUENCE WITH EAST HICKMAN CREEK

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

RADIO TOWER TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
RESERVOIR TRIBUTARY								
A	0.53	36	150	6.0	973.6	973.6	973.6	0.0
B	0.67	55 ²	-	-	976.0	976.0	976.6	0.6
C	0.81	18 ²	-	-	983.1	983.1	984.1	1.0
D	1.05	55	165	3.3	995.6	995.6	996.6	1.0
RESERVOIR TRIBUTARY EAST								
A	0.00	103	388	1.9	969.8	969.8	970.8	1.0
B	0.05	122	235	3.1	971.8	971.8	972.2	0.4
C	0.55	58	176	4.1	992.8	992.8	992.8	0.0
D	1.01	49	231	3.1	1023.0	1023.0	1024.0	1.0

¹ MILES ABOVE MOUTH

² FLOODWAY WIDTH AT THIS SECTION HAS BEEN REVISED BASED ON NEW TOPOGRAPHY. NO NEW ANALYSIS HAS BEEN PERFORMED

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

RESERVOIR TRIBUTARY- RESERVOIR TRIBUTARY EAST

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
RICHMOND ROAD TRIBUTARY								
A	0.58	210	1659	0.9	970.8	970.8	970.8	0.0
B	0.89	120	635	1.2	979.9	979.9	979.9	0.0
C	1.16	17 ²	-	-	983.4	983.4	984.1	0.7
D	1.18	21 ²	-	-	984.9	984.9	984.9	0.0
E	1.19	225	1335	0.6	994.1	994.1	995.1	1.0
F	1.27	163	949	0.8	994.1	994.1	995.1	1.0
G	1.31	130	234	3.3	1000.2	1000.2	1000.2	0.0
H	1.39	161	431	1.8	1000.3	1000.3	1000.3	0.0
I	1.42	56	576	1.3	1003.3	1003.3	1003.3	0.0
J	1.56	147	561	1.4	1003.4	1003.4	1003.4	0.0
SHADELAND DRIVE TRIBUTARY								
A	0.07	42 ²	-	-	984.0	984.0	984.6	0.6
B	0.40	33	122	5.5	1003.3	1003.3	1003.5	0.2

¹ MILES ABOVE MOUTH

² FLOODWAY WIDTH AT THIS SECTION HAS BEEN REVISED BASED ON NEW TOPOGRAPHY. NO NEW ANALYSIS HAS BEEN PERFORMED

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

RICHMOND ROAD TRIBUTARY- SHADELAND DRIVE TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
SOUTH ELKHORN CREEK								
A	38.62	387	2951	1.8	830.0	830.0	831.0	1.0
B	39.32	292	2237	2.3	831.0	831.0	832.0	1.0
C	39.77	227	1609	3.1	832.0	832.0	832.9	0.9
D	40.05	205	1841	2.7	834.3	834.3	834.8	0.5
E	40.52	205	1620	3.1	835.2	835.2	835.8	0.6
F	41.10	196	1385	2.5	837.5	837.5	838.2	0.7
G	41.85	213	1584	2.2	839.3	839.3	839.9	0.6
H	42.32	171	1029	3.4	841.0	841.0	841.8	0.8
I	42.69	78	724	9.1	847.3	847.3	847.4	0.1
J	42.73	95	657	10.0	848.2	848.2	849.2	1.0
K	43.25	202	2092	3.1	854.6	854.6	855.3	0.7
L	44.05	216	1981	3.3	857.4	857.4	858.4	1.0
M	44.58	238	1993	3.3	860.1	860.1	861.1	1.0
N	44.78	417	3752	1.8	861.4	861.4	862.4	1.0
O	45.23	210	1311	4.9	862.7	862.7	863.5	0.8
P	45.81	190	1360	4.7	869.3	869.3	869.8	0.5
Q	46.40	230	1533	4.2	874.6	874.6	875.4	0.8
R	46.61	232	1911	3.5	876.5	876.5	877.4	0.9
S	46.83	180	1492	4.4	878.8	878.8	879.6	0.8
T	47.42	361	2279	2.9	886.5	886.5	887.3	0.8
U	47.80	195	1352	4.9	889.9	889.9	890.3	0.4
V	48.23	300	2175	3.1	895.6	895.6	896.6	1.0
W	48.28	175	1737	3.9	897.3	897.3	897.9	0.6

¹ MILES ABOVE MOUTH

TABLE 24

**FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

SOUTH ELKHORN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
SOUTH ELKHORN CREEK								
X	48.89	135	815	6.3	903.2	903.2	904.1	0.9
Y	48.96	120	1061	4.8	906.0	906.0	906.8	0.8
Z	49.03	389	2399	2.2	906.8	906.8	906.9	0.1
AA	49.43	205	1146	4.6	911.6	911.6	912.5	0.9
AB	49.71	88	441	5.1	916.8	916.8	916.8	0.0
AC	49.75	63	357	6.2	916.8	916.8	917.5	0.7
AD	49.77	121	491	4.5	917.7	917.7	918.4	0.7
AE	49.80	155	787	2.8	918.9	918.9	918.9	0.0
AF	49.82	73	373	6.0	919.0	919.0	919.0	0.0
AG	49.85	192	771	2.9	920.0	920.0	920.0	0.0
AH	50.04	118	582	3.7	922.2	922.2	923.1	0.9
AI	50.06	120	574	3.5	923.1	923.1	923.7	0.7
AJ	50.07	181	723	2.8	923.6	923.6	923.9	
AK	50.17	79	295	6.7	924.4	924.4	925.0	0.5
AL	50.19	93	400	5.0	926.1	926.1	926.8	0.7
AM	50.33	146	666	1.8	929.3	929.3	930.2	0.9
AN	50.35	95	460	2.6	929.4	929.4	930.3	0.9
AO	50.46	195	522	2.3	930.7	930.7	931.4	0.7
AP	50.70	32	144	8.2	936.0	936.0	936.6	0.6
AQ	50.80	40	206	5.6	939.3	939.3	939.9	0.6
AR	50.84	32	163	7.1	939.5	939.5	940.5	1.0
AS	50.85	49	239	4.8	940.2	940.2	940.9	0.8
AT	50.87	46	197	5.1	940.4	940.4	940.4	0.0

¹ MILES ABOVE MOUTH

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

SOUTH ELKHORN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
SOUTH ELKHORN CREEK								
AU	50.99	23	122	7.5	943.9	943.9	944.4	0.5
AV	51.03	99	295	3.1	945.4	945.4	946.0	0.7
AW	51.18	20	115	7.7	948.9	948.9	949.8	0.9
AX	51.22	27	141	6.2	950.9	950.9	951.7	0.8
AY	51.23	38	174	5.1	951.1	951.1	951.9	0.8
AZ	51.24	31	156	5.2	952.7	952.7	952.9	0.2
BA	51.36	29	145	3.8	955.1	955.1	955.8	0.7
BB	51.38	14	68	8.1	955.1	955.1	955.6	0.6
BC	51.41	12	58	9.6	956.8	956.8	957.3	0.5
BD	51.45	19	99	5.6	959.9	959.9	960.8	0.9
BE	51.50	21	83	3.4	962.1	962.1	962.8	0.7
BF	51.55	30	91	3.1	963.2	963.2	963.7	0.5
BG	51.58	18	72	3.6	965.0	965.0	965.5	0.5
BH	51.65	13	40	6.4	966.6	966.6	967.1	0.5
BI	51.72	13	42	5.8	970.7	970.7	971.3	0.6
BJ	51.75	23	95	2.5	971.6	971.6	972.3	0.8
BK	51.78	503	2683	0.2	987.0	987.0	987.0	0.0
BL	51.86	376	2326	0.2	987.0	987.0	987.0	0.0

¹ MILES ABOVE MOUTH

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

SOUTH ELKHORN CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
SOUTHPOINT TRIBUTARY								
A	600 ¹	333	1778	1.4	891.8	891.8	892.0	0.2
B	2200 ¹	153	1268	2.5	897.2	897.2	897.2	0.0
C	3190 ¹	100	462	6.1	900.3	900.3	900.3	0.0
D	4580 ¹	78	474	6.8	909.0	909.0	909.0	0.0
E	5928 ¹	130	130	4.6	915.5	915.5	915.5	0.0
F	7334 ¹	100	100	4.9	925.4	925.4	925.4	0.0
G	8219 ¹	103	103	4.7	931.8	931.8	931.8	0.0
H	9226 ¹	75	75	4.8	940.6	940.6	940.6	0.0
SQUIRES ROAD TRIBUTARY								
A	0.04 ²	187	753	0.4	941.6	941.6	941.8	0.2
B	0.21 ²	18	34	7.9	945.8	945.8	945.8	0.0
C	0.41 ²	147	791	0.3	961.3	961.3	961.3	0.0
D	0.68 ²	18	-	-	968.5	968.5	969.5	1.0

¹ FEET ABOVE CONFLUENCE WITH WEST HICKMAN CREEK

² MILES ABOVE MOUTH

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

SOUTHPOINT TRIBUTARY - SQUIRES ROAD TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
STEELES RUN								
A	0.64	70	158	7.5	816.1	813.9 ²	813.9	0.0
B	0.83	60	198	6.0	817.2	817.2	818.0	0.8
C	1.27	50	243	4.2	823.8	823.8	824.7	0.9
D	1.93	55	239	4.0	833.5	833.5	833.9	0.4
E	2.44	70	256	3.4	840.4	840.4	841.3	0.9
F	2.88	70	241	3.6	845.7	845.7	846.6	0.9
G	3.15	55	206	3.6	850.1	850.1	850.6	0.5
H	3.53	60	162	4.4	854.6	854.6	855.6	1.0
I	3.90	60	136	4.6	868.4	868.4	868.7	0.3
J	4.34	60	144	2.3	878.5	878.5	879.5	1.0
STONEWALL ESTATES TRIBUTARY								
A	0.06	157	1260	1.1	907.3	906.0 ²	907.0	1.0
B	0.58	40	166	8.1	915.3	915.3	916.3	1.0
C	0.89	49	212	5.5	924.5	924.5	925.0	0.5
D	1.22	71	252	3.9	933.4	933.4	934.2	0.8
E	1.46	62	207	4.8	939.4	939.4	940.2	0.8
F	1.62	34	141	5.3	947.0	947.0	947.9	0.9
G	1.66	78	355	2.1	951.7	951.7	951.8	0.1
H	2.16	30	113	5.3	964.6	964.6	965.6	1.0
I	2.34	30	76	7.1	969.5	969.5	970.2	0.7
J	2.50	17	50	9.9	974.9	974.9	974.9	0.0
K	2.62	47	146	3.4	980.1	980.1	981.1	1.0
L	2.73	45	96	4.0	984.2	984.2	984.5	0.3

¹ MILES ABOVE MOUTH

² ELEVATIONS WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM SOUTH ELKHORN CREEK

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

STEELES RUN- STONEWALL ESTATES TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
STONEWALL ESTATES TRIBUTARY 2								
A	61	1414	10,083	0.0	934.4	934.4	935.2	0.8
B	314	60	340	0.6	934.4	935.0	935.2	0.8
C	642	40	142	1.4	934.4	935.2	935.3	0.8
D	708	43	92	2.1	935.0	937.2	935.6	0.6
E	752	64	105	1.8	935.2	946.5	935.8	0.7
F	797	52	55	3.5	937.2	946.6	937.2	0.0
G	929	100	897	0.4	947.1	947.1	947.1	0.0
H	1,077	112	399	0.9	947.1	947.1	947.1	0.0
I	1,450	64	64	5.7	950.3	950.3	950.3	0.0
J	1,903	19	28	6.9	958.9	958.9	959.1	0.2
K	2,048	23	199	0.3	967.2	967.2	967.5	0.3

¹ Feet above mouth

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

STONEWALL ESTATES TRIBUTARY 2

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
TATES CREEK								
A	0.06	139	789	3	912.4	911.4 ³	912.2	1
B	0.41	76	386	7	919.7	919.7	919.9	0.2
C	0.48	78	452	6	921.7	921.7	922.4	0.7
D	0.62	71	495	5	924.9	924.9	925.7	1
E	0.68	35	290	9.0	926.8	926.8	927.1	0.3
F	0.73	100	561	4.6	929.7	929.7	930.0	0.3
G	0.81	90	994	2.6	934.7	934.7	935.4	0.7
H	0.87	82	1,164	2.2	939.9	939.9	940.6	0.7
I	0.97	148	1,249	2.1	942.4	942.4	943.4	1.0
J	1.01	117	950	2.7	942.5	942.5	943.4	0.9
K	1.22	149 ²	-	-	949.2	949.2	950.2	1.0
L	1.34	113	879	1.7	951.5	951.5	952.1	0.6
M	1.54	37	293	5.2	956.9	956.9	956.9	0.0
N	1.81	78	589	2.6	967.3	967.3	968.2	0.9
O	2.08	110	731	2.1	978.3	978.3	978.4	0.1
P	2.17	40	214	7.2	978.9	978.9	979.2	0.3
Q	2.31	16 ²	-	-	984.6	984.6	985.0	0.4
TIVERTON WAY TRIBUTARY								
A	0.14	55	290	7.1	901.3	901.3	901.9	0.6
B	0.61	109 ²	-	-	912.8	912.8	913.0	0.2
C	1.59	165	1,187	1.7	963.1	963.1	964.0	0.9

¹Stream distance in miles above mouth

²Floodway at this section has been revised based on new topography. No new analysis has been performed.

³Elevations without considering overflow effect from West Hickman Creek

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
TODDS ROAD TRIBUTARY								
A	0.23	81	364	4.9	971.8	971.3 ²	972.3	1.0
B	0.54	192	-	-	980.3	980.3	980.9	0.6
C	0.73	62	356	5.0	982.3	982.3	983.1	0.8
D	0.81	196	932	1.9	985.9	985.9	986.3	0.4
E	0.84	196	519	1.0	985.9	985.9	986.3	0.4
F	0.95	67	184	2.9	986.3	986.3	986.7	0.5
G	1.11	63	222	2.3	990.6	990.6	991.5	0.8
H	1.29	84	868	0.6	992.4	992.4	993.3	0.9
I	1.35	395	353	1.2	998.4	998.4	998.4	0.0
J	1.46	189	302	1.4	998.6	998.6	998.6	0.0
K	1.49	106	116	3.7	999.2	999.2	999.2	0.0
L	1.50	65	229	1.7	1000.5	1000.5	1001.4	0.9
M	1.54	26	52	7.3	1001.1	1001.1	1001.3	0.2
N	1.55	35	134	2.9	1002.0	1002.0	1002.7	0.7
O	1.56	288	611	0.6	1002.6	1002.6	1002.6	0.0
P	1.65	172	149	2.5	1002.8	1002.8	1002.8	0.0
Q	1.67	24	60	6.3	1003.5	1003.5	1003.5	0.1
R	1.68	40	134	2.4	1004.7	1004.7	1005.3	0.6
S	1.74	10	39	8.4	1005.0	1005.0	1005.5	0.5
T	1.74	50	167	1.9	1005.9	1005.9	1006.8	0.9
U	1.80	23	77	4.2	1006.3	1006.3	1007.3	0.9
V	1.83	52	109	3.0	1007.2	1007.2	1008.0	0.8
W	1.83	18	74	4.4	1008.0	1008.0	1008.4	0.4

¹ MILES ABOVE DAM

² ELEVATIONS WITHOUT CONSIDERATION OF BACKWATER EFFECTS FROM CADENTOWN BRANCH

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

TODDS ROAD TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
TODDS ROAD TRIBUTARY								
X	1.84 ¹	82	333	0.4	1009.5	1009.5	1009.8	0.3
Y	1.91 ¹	20	54	2.7	1009.8	1009.8	1010.2	0.4
Z	1.94 ¹	26	42	3.5	1010.5	1010.5	1010.8	0.3
AA	2.04 ¹	15	27	4.8	1016.7	1016.7	1016.7	0.0
TODDS ROAD NORTH								
A	0.15 ²	20	66	9.6	989.1	989.1	989.4	0.3
B	0.60 ²	60	165	1.7	1014.1	1014.1	1014.1	0.0

¹Miles above dam

²Miles above mouth

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
 GOVERNMENT, KY**

FLOODWAY DATA

TODDS ROAD TRIBUTARY - TODDS ROAD NORTH TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
TOWN BRANCH								
A	0.41	185	1796	5.7	815.8	814.5 ²	815.5	1.0
B	0.92	386	2866	3.6	817.6	817.6	818.6	1.0
C	1.96	349	3092	3.3	822.1	822.1	823.1	1.0
D	2.37	249	2242	4.5	823.8	823.8	824.8	1.0
E	2.75	172	1773	5.8	826.1	826.1	827.1	1.0
F	3.2	287	2863	3.6	828.5	828.5	829.5	1.0
G	3.63	217	2077	4.9	830.3	830.3	831.3	1.0
H	4.26	597	4582	2.2	833.7	833.7	834.7	1.0
I	4.38	321	3282	3.1	836.4	836.4	837.4	1.0
J	4.81	237	1600	6.4	838.0	838.0	839.0	1.0
K	5.3	247	2348	4.3	842.1	842.1	843.1	1.0
L	5.7	169	1540	6.6	844.8	844.8	845.8	1.0
M	5.96	316	3009	3.4	846.9	846.9	847.9	1.0
N	6.2	279	2450	4.2	848.5	848.5	849.5	1.0
O	6.7	226	2092	4.9	851.3	851.3	852.3	1.0
P	6.91	277	2638	3.9	853.1	853.1	854.1	1.0
Q	7.66	265	2007	5.1	859.6	859.6	860.6	1.0
R	8.07	197	1947	5.2	862.7	862.7	863.7	1.0
S	8.76	344	3774	2.7	867.6	867.6	868.6	1.0
T	9.23	122	1066	6.7	869.9	869.9	870.9	1.0
U	9.55	126	1015	6.8	873.4	873.4	874.4	1.0
V	10.2	284	2938	2.9	892.9	892.9	893.9	1.0
W	10.67	142	1283	6.4	894.3	894.3	895.3	1.0
X	11.02	141	1351	6.1	901.5	901.5	902.5	1.0
Y	11.12	172	1452	5.6	905.1	905.1	906.1	1.0
Z	11.38	66	691	11.9	910.6	910.6	911.6	1.0
AA	11.77	40	464	10.6	919.6	919.6	920.6	1.0

¹ MILES ABOVE MOUTH

² ELEVATIONS WITHOUT CONSIDERING BACKWATER EFFECTS FROM SOUTH ELKHORN CREEK

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
**LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY**

FLOODWAY DATA

TOWN BRANCH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
TWO PONDS TRIBUTARY								
A	111	162	848	0.1	969.8	969.8	969.8	0.0
B	226	41	206	0.4	969.8	969.8	969.8	0.0
C	393	145	827	0.4	977.4	977.4	977.4	0.0
D	1344	48	56	5.3	977.3	977.3	977.3	0.0
E	1611	44	97	1.0	987.6	987.6	987.6	0.0
F	1639	14	35	2.9	987.5	987.5	987.5	0.0
G	1732	54	72	1.7	990.7	990.7	990.7	0.0
H	1964	15	21	5.7	991.6	991.6	991.6	0.0
I	2069	97	409	0.3	1000.3	1000.3	1000.3	0.0
J	2501	9	13	6.9	1001.0	1001.0	1001.3	0.3

¹ FEET ABOVE CONFLUENCE WITH PLEASANT RIDGE CHURCH TRIBUTARY

TABLE 24	FEDERAL EMERGENCY MANAGEMENT AGENCY	FLOODWAY DATA
	LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT, KY	TWO PONDS TRIBUTARY

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC.)	REGULATORY (NAVD)	WITHOUT FLOODWAY (NAVD)	WITH FLOODWAY (NAVD)	INCREASE
UK AGRICULTURE STATION BRANCH								
A	0.22	100	364	3.7	865.1	865.1	865.1	0.0
B	0.40	82 ²	-	-	867.6	867.6	867.8	0.2
C	0.85	100	434	3.1	877.0	877.0	877.6	0.6
D	1.22	120	284	4.1	880.7	880.7	881.3	0.6
E	1.66	91	308	3.8	887.3	887.3	888.2	0.9
F	2.11	112	420	2.8	891.6	891.6	892.5	0.9
G	2.39	231 ²	-	-	895.4	895.4	896.4	1.0
H	2.66	100	338	2.9	901.1	901.1	901.5	0.4
I	2.90	58 ²	-	-	903.7	903.7	904.5	0.8
J	4.55	48	188	8.1	934.0	934.0	935.0	1.0
K	4.88	80	1195	1.2	940.3	940.30	941.3	1.0
L	5.03	39	186	7.1	942.3	942.30	942.3	0.0
M	5.32	92 ²	-	-	956.3	956.30	957.3	1.0

¹ MILES ABOVE MOUTH

² FLOODWAY WIDTH AT THIS SECTION HAS BEEN REVISED BASED ON NEW TOPOGRAPHY. NO NEW ANALYSIS HAS BEEN PERFORMED

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY
LEXINGTON-FAYETTE URBAN COUNTY
GOVERNMENT, KY

FLOODWAY DATA

UK AGRICULTURE STATION BRANCH