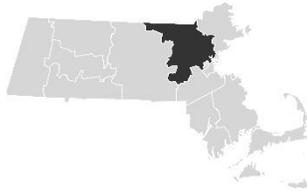


FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 6 OF 15



MIDDLESEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
ACTON, TOWN OF	250176	MARLBOROUGH, CITY OF	250203
ARLINGTON, TOWN OF	250177	MAYNARD, TOWN OF	250204
ASHBY, TOWN OF	250178	MEDFORD, CITY OF	250205
ASHLAND, TOWN OF	250179	MELROSE, CITY OF	250206
AYER, TOWN OF	250180	NATICK, TOWN OF	250207
BEDFORD, TOWN OF	255209	NEWTON, CITY OF	250208
BELMONT, TOWN OF	250182	NORTH READING, TOWN OF	250209
BILLERICA, TOWN OF	250183	PEPPERELL, TOWN OF	250210
BOXBOROUGH, TOWN OF	250184	READING, TOWN OF	250211
BURLINGTON, TOWN OF	250185	SHERBORN, TOWN OF	250212
CAMBRIDGE, CITY OF	250186	SHIRLEY, TOWN OF	250213
CARLISLE, TOWN OF	250187	SOMERVILLE, CITY OF	250214
CHELMSFORD, TOWN OF	250188	STONEHAM, TOWN OF	250215
CONCORD, TOWN OF	250189	STOW, TOWN OF	250216
DRACUT, TOWN OF	250190	SUDBURY, TOWN OF	250217
DUNSTABLE, TOWN OF	250191	TEWKSBURY, TOWN OF	250218
EVERETT, CITY OF	250192	TOWNSEND, TOWN OF	250219
FRAMINGHAM, TOWN OF	250193	TYNGSBOROUGH, TOWN OF	250220
GROTON, TOWN OF	250194	WAKEFIELD, TOWN OF	250221
HOLLISTON, TOWN OF	250195	WALTHAM, CITY OF	250222
HOPKINTON, TOWN OF	250196	WATERTOWN, TOWN OF	250223
HUDSON, TOWN OF	250197	WAYLAND, TOWN OF	250224
LEXINGTON, TOWN OF	250198	WESTFORD, TOWN OF	250225
LINCOLN, TOWN OF	250199	WESTON, TOWN OF	250226
LITTLETON, TOWN OF	250200	WILMINGTON, TOWN OF	250227
LOWELL, CITY OF	250201	WINCHESTER, TOWN OF	250228
MALDEN, CITY OF	250202	WOBURN, CITY OF	250229

REVISED:

REVISED
PRELIMINARY
06/08/2023



FEMA

FLOOD INSURANCE STUDY NUMBER
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Published Separately

Flood Insurance Rate Map (FIRM)

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	42	15	44	2.4	213.8	208.6 ²	209.6	1.0
B	433	15	32	3.3	213.8	210.0 ²	210.2	0.2
C	723	20	22	4.7	213.8	212.3 ²	212.5	0.2
D	966	40	149	0.7	216.4	216.4	217.3	0.9
E	1,616	40	45	2.3	217.1	217.1	217.6	0.5

¹Feet above confluence with Beaver Brook 4

²Elevation computed without consideration of backwater effects from Beaver Brook 4

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: KING STREET TRIBUTARY

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	15,780	341	1,153	1.0	121.1	119.7 ²	119.7	0.0
B	17,930	130	390	2.9	121.2	121.2	122.0	0.8
C	21,610	235	541	0.6	122.1	122.1	122.9	0.8
D	23,990	194	620	0.5	124.6	124.6	124.7	0.1
E	25,690	80	163	2.0	126.8	126.8	127.0	0.2
F	27,360	40	110	2.9	137.3	137.3	137.3	0.0
G	28,240	66	78	4.2	152.0	152.0	152.0	0.0
H	30,140	40	122	1.3	166.3	166.3	166.3	0.0
I	32,410	27	160	2.0	176.9	176.9	177.7	0.8
J	33,910	107	220	1.5	200.1	200.1	200.3	0.2
K	34,780	60	256	1.3	203.3	203.3	203.4	0.1
L	36,270	11	58	5.6	208.4	208.4	208.6	0.2
M	38,170	39	111	2.9	212.8	212.8	213.8	1.0

¹Feet above confluence with Sudbury River

²Elevation computed without consideration of backwater effects from Sudbury River

³Flooding source in Town of Wayland is known as Wash Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: LANDHAM-ALLOWANCE BROOK³

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	30	22	39	5.1	104.5	86.3 ²	86.7	0.4
B	140	30	199	1.0	104.5	91.3 ²	91.3	0.0
C	1,315	23	31	6.6	105.0	105.0	105.0	0.0
D	1,418	22	61	3.3	108.8	108.8	108.8	0.0
E	2,300	30	52	3.8	114.7	114.7	115.1	0.4
F	4,225	25	81	2.5	119.8	119.8	120.7	0.9
G	4,310	18	103	1.9	122.1	122.1	122.8	0.7
H	4,480	80	322	0.6	122.1	122.1	122.9	0.8
I	4,550	81	508	0.4	122.7	122.7	123.1	0.4
J	4,553	80	93	2.1	123.1	123.1	123.3	0.2
K	4,780	263	1,275	0.3	123.5	123.5	124.1	0.6
L	6,355	100	144	0.9	123.5	123.5	124.1	0.6
M	8,005	10	19	7.0	134.5	134.5	134.9	0.4
N	8,075	8	16	8.2	137.8	137.8	138.1	0.3
O	9,790	2	11	12.1	160.3	160.3	160.3	0.0
P	9,840	20	138	1.0	163.4	163.4	163.4	0.0
Q	9,920	49	54	2.5	165.0	165.0	165.0	0.0
R	10,057	240	2,451	0.1	174.9	174.9	175.6	0.7
S	10,080	230	2,323	0.1	174.9	174.9	175.6	0.7

¹Feet above confluence with Merrimack River

²Elevation computed without consideration of backwater effects from Merrimack River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: LAWRENCE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	10	14	30	7.0	66.5	66.5	66.6	0.1
B	770	81	119	1.7	72.3	72.3	72.4	0.1
C	990	45	45	4.6	72.7	72.7	72.7	0.0
D	2,270	14	35	5.9	88.7	88.7	88.7	0.0
E	2,460	17	28	5.1	90.6	90.6	90.7	0.1
F	2,780	99	92	1.2	93.6	93.6	93.6	0.0

¹Feet above confluence with Cummings Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: LITTLE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,500	20	89	7.1	309.4	309.4	310.2	0.8
B	3,800	55	104	6.1	334.7	334.7	334.9	0.2

¹Feet above confluence with Willard Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: LOCKE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	401	85	255	1.1	78.7	74.9 ²	75.9	1.0
B	1,352	50	155	1.7	78.7	75.6 ²	76.6	1.0
C	2,640	30	155	1.7	78.9	78.9	79.3	0.4
D	4,298	100	360	0.7	79.0	79.0	80.0	1.0
E	6,072	110	270	1.0	79.6	79.6	80.5	0.9
F	7,920	50	180	1.5	80.5	80.5	81.3	0.8
G	9,240	45	245	1.0	81.5	81.5	82.3	0.8
H	10,074	90	345	0.7	81.7	81.7	82.5	0.8
I	11,289	50	185	1.3	81.8	81.8	82.6	0.8
J	12,382	100	240	1.0	84.6	84.6	85.4	0.8
K	13,696	230	1,010	0.2	84.6	84.6	85.4	0.8
L	15,006	100	460	0.7	85.3	85.3	86.0	0.7
M	16,030	100	420	0.7	85.3	85.3	86.0	0.7
N	17,076	170	400	0.8	85.4	85.4	86.3	0.9
O	18,132	25	80	3.9	86.4	86.4	87.0	0.6
P	18,681	60	215	1.5	88.5	88.5	88.8	0.3
Q	19,742	33	103	2.4	90.9	90.9	91.0	0.1
R	20,608	126	471	0.3	93.9	93.9	93.9	0.0
S	21,289	75	154	0.8	94.0	94.0	94.0	0.0
T	22,414	155	508	0.3	95.0	95.0	95.0	0.0
U	23,016	184	337	0.4	95.0	95.0	95.0	0.0

¹Feet above confluence with Ipswich River

²Elevation computed without consideration of backwater effects from Ipswich River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: LUBBERS BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	24,367	468	817	0.2	96.2	96.2	96.3	0.1
W	25,170	342	1,032	0.1	98.5	98.5	98.6	0.1
X	25,877	341	924	0.2	98.6	98.6	98.7	0.1
Y	26,210	223	619	0.2	99.0	99.0	99.1	0.1
Z	26,939	169	373	0.4	99.0	99.0	99.1	0.1
AA	27,134	149	322	0.6	99.2	99.2	99.3	0.1
AB	28,380	63	175	1.0	99.7	99.7	99.9	0.2
AC	28,887	10	22	8.3	101.3	101.3	101.4	0.1
AD	29,811	265	993	0.2	102.1	102.1	102.6	0.5
AE	31,131	100	462	0.3	102.4	102.4	103.4	1.0
AF	31,776	80	321	0.4	103.0	103.0	103.5	0.5
AG	33,221	80	178	0.7	103.0	103.0	103.7	0.7
AH	34,306	80	169	0.6	103.3	103.3	104.2	0.9
AI	34,831	80	157	0.6	103.4	103.4	104.3	0.9

¹Feet above confluence with Ipswich River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: LUBBERS BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	486	40	105	4.1	79.7	75.9 ²	75.9	0.0
B	1,954	25	110	3.3	79.7	77.0 ²	78.0	1.0
C	3,274	70	280	1.3	79.7	77.8 ²	78.8	1.0
D	4,910	125	450	0.8	79.7	78.2 ²	79.2	1.0
E	5,797	45	275	1.3	81.3	81.3	81.4	0.1
F	6,426	25	165	2.2	81.3	81.3	81.4	0.1
G	7,429	55	515	0.6	82.9	82.9	82.9	0.0
H	8,100	10	90	3.5	83.8	83.8	83.8	0.0
I	10,856	240	1,265	0.0	84.2	84.2	85.0	0.7
J	12,007	260	935	0.1	84.2	84.2	85.0	0.7
K	13,306	60	170	0.3	84.2	84.2	85.0	0.7

¹Feet above confluence with Ipswich River

²Elevation computed without consideration of backwater effects from Ipswich River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MAPLE MEADOW BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	430	80	347	0.4	104.2	102.8 ²	103.7	0.9
B	990	22	72	1.9	104.2	103.1 ²	103.7	0.6
C	1,950	49	76	1.8	104.2	103.8 ²	104.2	0.4
D	3,130	90	133	0.8	107.0	107.0	107.3	0.3
E	4,150	10	30	4.6	116.7	116.7	117.4	0.7
F	5,550	20	179	0.8	126.3	126.3	126.4	0.1

¹Feet above confluence with Concord River

²Elevation computed without consideration of backwater effects from Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MARGINAL BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	296	60	144	2.4	94.9	93.1 ²	93.1	0.0
B	940	35	158	2.2	96.3	96.3	96.5	0.2
C	1,690	15	130	2.7	99.9	99.9	99.9	0.0
D	2,191	40	179	2.0	100.0	100.0	100.5	0.5
E	2,957	60	254	1.4	100.0	100.0	100.9	0.9
F	4,620	10	39	7.4	105.1	105.1	105.3	0.2
G	5,697	15	81	2.5	109.3	109.3	109.6	0.3
H	6,605	20	119	1.7	111.4	111.4	111.4	0.0
I	10,185	75	234	0.9	111.4	111.4	112.2	0.8
J	11,072	10	61	3.4	114.8	114.8	114.8	0.0
K	11,500	50	376	0.6	115.2	115.2	115.7	0.5
L	13,316	60	222	0.9	115.2	115.2	116.1	0.9

¹Feet above confluence with Strong Water Brook

²Elevation computed without consideration of backwater effects from Strong Water Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MARSHALL BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	183	123	898	1.9	70.3	70.3	71.2	0.9
B	319	36	334	3.8	72.7	72.7	73.3	0.6
C	2,273	563	3,264	1.2	73.0	73.0	73.7	0.7
D	2,330	614	4,272	1.0	73.0	73.0	73.8	0.8
E	3,693	343	2,082	1.9	73.1	73.1	73.9	0.8
F	4,953	28	252	5.0	74.2	74.2	75.0	0.8
G	5,130	304	2,340	1.3	76.4	76.4	77.3	0.9
H	6,189	584	4,247	0.9	76.5	76.5	77.3	0.8
I	7,394	162	1,427	1.1	76.5	76.5	77.4	0.9
J	9,183	435	3,051	0.6	76.6	76.6	77.4	0.8
K	11,307	700	3,867	0.3	76.6	76.6	77.5	0.9
L	12,490	180	1,101	1.4	76.6	76.6	77.5	0.9
M	13,815	819	3,220	0.4	76.7	76.7	77.6	0.9
N	14,796	828	3,273	0.3	76.7	76.7	77.6	0.9
O	15,588	512	2,500	0.7	76.7	76.7	77.6	0.9
P	16,855	184	1,350	0.5	76.8	76.8	77.6	0.9
Q	17,436	246	1,547	0.2	78.5	78.5	79.4	0.9
R-Y*	*	*	*	*	*	*	*	*

¹Feet above confluence with Ipswich River

*No data available

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MARTINS BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	600	30	30	4.9	223.6	223.6	224.1	0.5
B	3,225	100	139	1.1	251.7	251.7	252.2	0.5
C	4,600	753	690	0.2	254.0	254.0	254.0	0.0

¹Feet above confluence with Lost Lake

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MARTINS POND BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	725	*	19	4.2	123.5	121.3 ²	122.1	0.8
B	810	*	83	1.0	123.5	123.3 ²	123.5	0.2
C	1,785	*	14	5.8	132.0	132.0	132.0	0.0
D	1,835	*	21	3.9	132.5	132.5	132.6	0.1
E	1,909	*	21	3.8	132.9	132.9	132.9	0.0
F	1,994	*	25	3.1	137.3	137.3	137.3	0.0
G	2,290	*	13	6.1	147.4	147.4	147.4	0.0
H	2,420	*	80	1.0	154.3	154.3	154.3	0.0
I	2,433	*	35	2.3	154.4	154.4	154.4	0.0

¹Feet above confluence with Lawrence Brook

²Elevation computed without consideration of backwater effects from Lawrence Brook

*Floodway coincident with channel banks

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MASCUPPIC BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	3,900	20	64	10.2	331.0	331.0	331.3	0.3
B	5,400	28	99	6.6	343.8	343.8	344.5	0.7
C	7,600	20	84	7.8	363.8	363.8	364.6	0.8

¹Feet above confluence with Walker Brook 2

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MASON BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	100	418	1.2	94.9	92.1 ²	93.1	1.0
B	412	50	180	2.8	94.9	93.4 ²	94.2	0.8
C	744	75	377	1.4	95.0	93.7 ²	94.6	0.9
D	1,220	40	293	1.7	95.9	95.2 ²	95.7	0.5
E	2,376	65	275	1.9	96.0	95.3 ²	96.3	1.0
F	2,656	40	308	1.7	97.7	97.7	98.4	0.7
G	3,432	75	565	0.9	97.7	97.7	98.5	0.8
H	6,415	200	1,108	0.3	97.7	97.7	98.7	1.0
I	8,501	85	193	1.5	98.3	98.3	99.2	0.9
J	9,309	10	50	5.7	101.0	101.0	101.8	0.8

¹Feet above confluence with Strong Water Brook

²Elevation computed without consideration of coincident flooding effects from Strong Water Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MEADOW BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	0	100	170	3.2	169.8	169.8	170.3	0.5
B	180	120	613	0.9	174.2	174.2	174.2	0.0
C	350	120	1,129	0.5	174.5	174.5	174.5	0.0
D	1,350	120	651	0.8	174.5	174.5	174.5	0.0
E	2,345	74	138	3.9	176.9	176.9	176.9	0.0
F	3,630	80	165	3.3	180.3	180.3	180.3	0.0
G	4,355	100	164	3.3	184.1	184.1	184.1	0.0
H	4,980	100	221	2.4	185.0	185.0	185.1	0.1
I	6,695	210	338	1.1	186.4	186.4	187.0	0.6
J	8,185	200	640	0.6	188.1	188.1	188.3	0.2
K	8,695	585	1,605	0.2	188.1	188.1	188.3	0.2

¹Feet above limit of detailed study, approximately 250 feet below Lowell Street

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MEADOW RIVER BRANCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	700	630	17,009	6.5	55.8	55.8	56.3	0.5
B	2,400	626	15,834	7.0	56.4	56.4	56.9	0.5
C	12,105	682	14,773	6.5	56.9	56.9	57.9	1.0
D	14,762	498	11,816	8.2	57.8	57.8	58.6	0.8
E	16,653	498	9,027	10.7	59.0	59.0	59.7	0.7
F	18,654	594	9,491	10.2	62.3	62.3	62.7	0.4
G	18,976	501	11,398	8.6	63.2	63.2	63.5	0.3
H	20,394	464	9,395	10.4	64.0	64.0	64.3	0.3
I	20,700	443	8,882	10.9	64.3	64.3	64.6	0.3
J	22,064	477	12,012	8.0	66.0	66.0	66.2	0.2
K	22,287	463	10,595	9.0	66.1	66.1	66.3	0.2
L	23,583	621	14,028	6.8	67.4	67.4	67.6	0.2
M	25,734	766	15,285	6.3	68.4	68.4	68.6	0.2
N	25,839	812	15,950	6.0	68.5	68.5	68.6	0.1
O	27,009	1,626	42,218	2.4	69.1	69.1	69.3	0.2
P	28,376	587	10,118	9.5	69.3	69.3	69.4	0.1
Q	29,068	375	4,725	20.2	77.2	77.2	77.2	0.0
R	29,161	385	6,858	14.2	82.1	82.1	82.1	0.0
S	30,115	334	6,015	16.5	84.3	84.3	84.3	0.0
T	31,105	382	7,298	13.8	88.2	88.2	88.2	0.0
U	31,187	356	7,515	13.2	89.8	89.8	89.8	0.0

¹Feet above county boundary

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MERRIMACK RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	33,523	793	11,010	10.1	97.9	97.9	98.8	0.9
W	39,015	1,080	20,128	5.5	100.7	100.7	101.2	0.5
X	43,186	797	16,065	6.9	101.6	101.6	102.0	0.4
Y	48,255	866	18,444	6.0	103.5	103.5	104.1	0.6
Z	56,273	640	16,681	6.1	103.7	103.7	104.6	0.9
AA	59,071	720	17,145	5.9	104.3	104.3	105.2	0.9
AB	62,873	340	10,928	9.3	104.8	104.8	105.7	0.9
AC	65,354	500	14,177	7.2	106.1	106.1	107.0	0.9
AD	67,572	390	13,596	7.5	106.7	106.7	107.5	0.8
AE	70,212	570	14,881	6.9	107.3	107.3	108.2	0.9
AF	73,961	490	15,007	6.8	108.1	108.1	109.0	0.9

¹Feet above county boundary, approximately 21,175 feet below Hunts Falls Bridge

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MERRIMACK RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,880	87	418	0.2	121.1	120.9 ²	120.9	0.0
B	4,175	98	482	0.2	125.0	125.0	125.0	0.0
C	7,330	145	349	0.3	127.8	127.8	127.9	0.1

¹Feet above confluence with Pine Brook

²Elevation computed without consideration of backwater effects from Sudbury River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MILL BROOK 1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,290	14	17	6.3	119.7	112.8 ²	112.8	0.0
B	1,496	100	270	0.4	120.3	118.3 ³	118.3	0.0
C	1,786	140	819	0.1	120.3	118.4 ³	118.4	0.0
D	3,006	25	54	10.5	120.3	119.7 ³	119.9	0.2
E	3,395	125	246	2.7	123.4	123.4	123.4	0.0
F	3,905	242	458	0.2	123.7	123.7	123.7	0.0
G	4,305	146	455	0.7	123.7	123.7	123.7	0.0
H	5,455	216	580	0.2	124.6	124.6	124.6	0.0
I	5,908	632	1,254	0.1	124.7	124.7	124.7	0.0
J	10,499	691	1,064	0.2	126.4	126.4	126.4	0.0
K	11,194	947	1,609	0.1	126.5	126.5	126.5	0.0
L	13,026	389	432	0.5	126.7	126.7	126.7	0.0
M	14,335	374	361	0.6	127.2	127.2	127.2	0.0
N	14,831	468	3,070	0.1	133.1	133.1	133.1	0.0

¹Feet above confluence with Concord River

²Elevation computed without consideration of backwater effects from Concord River

³Elevation computed without consideration of flooding controlled by Sudbury River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MILL BROOK 2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	30	78 ²	374	1.4	7.2	0.6 ³	0.6	0.0
B	890	44 ²	227	2.1	7.3	6.8 ³	6.8	0.0
C	930	48	375	1.3	7.3	6.9 ³	7.0	0.1
D	2,000	37 ²	126	5.3	7.4	6.2 ³	6.2	0.0
E	3,090	63 ²	115	5.5	10.8	10.8	10.9	0.1
F	3,550	39	111	5.0	17.3	17.3	17.6	0.3
G	4,930	23	86	5.8	33.2	33.2	33.4	0.2
H	5,390	29	67	7.4	38.0	38.0	38.0	0.0
I	5,610	113 ²	197	2.3	42.3	42.3	42.4	0.1
J	6,670	26 ²	180	2.6	50.6	50.6	50.7	0.1
K	6,810	21	84	5.5	54.2	54.2	54.2	0.0
L	7,010	8 ²	50	9.2	57.2	57.2	57.2	0.0
M	8,640	23 ²	56	8.9	75.7	75.7	76.0	0.3
N	8,760	15	69	6.6	78.5	78.5	78.5	0.0
O	9,120	17	81	5.6	80.7	80.7	80.8	0.1
P	9,800	16 ²	73	5.8	88.0	88.0	88.0	0.0
Q	10,220	12	67	6.4	94.1	94.1	94.6	0.6
R	10,250	11	70	6.0	94.3	94.3	94.8	0.6
S	10,540	11	44	9.8	100.9	100.9	100.9	0.0
T	10,700	11	51	8.4	103.9	103.9	103.8	0.0
U	11,280	29	66	5.1	107.1	107.1	106.9	0.1

¹Feet above confluence with Lower Mystic Lake

²The measured top width on the FIRM may differ due to the effects of ineffective flow, the exclusion of small pocket areas due to map scale limitations, or is estimated due to HEC-RAS modeling limitations

³Elevation computed without consideration of backwater effects from Lower Mystic Lake

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MILL BROOK 3

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	11,600	19	63	5.4	111.8	111.8	111.7	0.0
W	11,750	17 ²	33	6.5	116.1	116.1	115.9	0.1
X	12,830	19	35	6.0	146.2	146.2	147.2	1.0
Y	13,880	120	420	0.6	154.2	154.2	154.3	0.1
Z	14,130	348 ²	577	0.4	154.2	154.2	154.3	0.1
AA	14,770	181 ²	360	0.6	154.2	154.2	154.4	0.2
AB	15,490	36 ²	128	0.7	154.5	154.5	154.6	0.1
AC	16,970	32 ²	82	1.0	154.7	154.7	154.7	0.0
AD	18,010	24 ²	39	2.2	162.8	162.8	162.8	0.0
AE	19,540	50 ²	716	1.7	164.7	164.7	164.6	0.0

¹Feet above confluence with Lower Mystic Lake

²The measured top width on the FIRM may differ due to the effects of ineffective flow, the exclusion of small pocket areas due to map scale limitations, or is estimated due to HEC-RAS modeling limitations

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MILL BROOK 3

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	929	449	3,052	0.1	216.2	216.2	216.2	0.0
B	1,943	195	722	0.1	216.2	216.2	216.2	0.0
C	3,538	130	240	0.1	217.0	217.0	217.0	0.0
D	5,739	20	32	1.0	217.6	217.6	218.5	0.9

¹Feet above confluence with Beaver Brook 4

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MILL POND TRIBUTARY

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,100	27	212	1.4	53.9	53.9	54.9	1.0
B	1,422	33	239	1.2	54.3	54.3	55.3	1.0
C	2,477	17	124	2.4	55.1	55.1	56.1	1.0
D	2,842	81	381	0.8	56.2	56.2	57.0	0.8
E	4,847	239	1,221	0.2	56.3	56.3	57.1	0.8
F	6,062	15	90	3.3	56.3	56.3	57.2	0.9
G	6,192	13	96	3.1	57.1	57.1	57.7	0.6
H	6,472	17	119	2.5	57.3	57.3	58.0	0.7
I	6,580	44	229	0.6	57.9	57.9	58.7	0.8
J	8,030	68	423	0.3	58.0	58.0	58.7	0.7
K	8,210	52	175	0.8	58.0	58.0	58.7	0.7
L	8,415	176	1,146	0.1	58.0	58.0	58.7	0.7
M	9,045	126	622	0.2	58.0	58.0	58.8	0.8
N	9,905	14	79	1.8	58.1	58.1	58.8	0.7
O	10,105	6	17	3.9	59.1	59.1	59.6	0.5
P	11,010	31	102	0.6	60.1	60.1	60.9	0.8
Q	11,725	7	15	4.4	64.6	64.6	64.9	0.3

¹Feet above confluence with Saugus River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MILL RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	121	29	200	0.2	115.7	115.7	116.7	1.0
B	401	23	157	0.3	115.7	115.7	116.7	1.0
C	628	10	68	0.7	115.7	115.7	116.7	1.0
D	755	19	45	0.8	115.8	115.8	116.8	1.0
E	1,468	15	28	1.3	116.4	116.4	117.0	0.6
F	1,932	65	92	0.4	116.7	116.7	117.1	0.4
G	2,064	70	76	0.6	116.8	116.8	117.2	0.4
H	2,276	15	88	0.5	116.8	116.8	117.3	0.5
I	2,534	20	100	0.4	116.8	116.8	117.3	0.5
J	2,930	30	150	0.2	117.6	117.6	118.6	1.0
K	3,115	15	100	0.4	117.6	117.6	118.6	1.0
L	3,242	25	113	0.3	117.6	117.6	118.6	1.0

¹Feet above confluence with Elm Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MONGO BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,540	100	385	0.2	217.8	211.8 ²	212.3	0.5
B	4,975	11	20	4.0	221.8	221.8	222.2	0.4
C	5,255	15	32	2.5	222.4	222.4	223.1	0.7

¹Feet above confluence with Nashua River

²Elevation computed without consideration of backwater effects from Nashua River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MORSE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	493	33	44	1.9	255.1	246.4 ²	247.3	0.9
B	1,123	15	15	5.4	256.5	256.5	256.5	0.0
C	2,008	35	70	1.2	265.9	265.9	266.1	0.2
D	2,750	40	135	0.6	276.6	276.6	276.6	0.0
E	3,490	9	12	6.8	286.9	286.9	286.9	0.0
F	4,055	30	62	1.3	301.8	301.8	302.0	0.2

¹Feet above confluence with Sudbury Reservoir

²Elevation computed without consideration of backwater effects from Sudbury Reservoir

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MOWRY BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,214	21	20	5.1	89.0	89.0	89.0	0.0
B	1,320	22	107	0.9	93.0	93.0	93.0	0.0
C	2,006	10	20	3.8	93.2	93.2	93.5	0.3
D	3,168	55	81	0.9	97.4	97.4	98.4	1.0

¹Feet above confluence with Shawsheen River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MUD POND BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,525	60	201	9.7	221.8	221.8	222.2	0.4
B	2,665	50	193	10.1	242.5	242.5	242.6	0.1
C	3,390	108	387	5.0	256.9	256.9	257.9	1.0
D	3,860	35	172	11.3	264.0	264.0	264.0	0.0
E	4,400	36	227	8.6	266.6	266.6	267.6	1.0
F	5,000	90	589	3.3	272.6	272.6	272.7	0.1
G	6,090	95	733	2.7	274.8	274.8	275.8	1.0
H	7,940	115	419	4.6	277.3	277.3	277.8	0.5
I	9,005	680	2,954	0.7	277.9	277.9	278.6	0.7
J	10,515	130	642	3.0	278.3	278.3	279.0	0.7
K	11,500	80	736	2.6	284.3	284.3	284.3	0.0
L	12,595	145	1,082	1.8	284.4	284.4	284.5	0.1
M	13,100	125	1,211	1.8	286.5	286.5	286.5	0.0
N	14,100	160	1,609	1.3	286.5	286.5	286.6	0.1
O	19,300	250	650	3.3	288.1	288.1	288.9	0.8

¹Feet above confluence with Nashua River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: Mulpus Brook

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,595	40	88	4.9	160.3	160.3	161.3	1.0
B	1,690	62	339	1.2	163.0	163.0	164.0	1.0
C	1,795	148	1,304	0.4	163.0	163.0	164.0	1.0
D	1,901	41	215	2.0	163.0	163.0	164.0	1.0
E	2,587	79	424	1.0	163.2	163.2	164.2	1.0
F	2,830	81	479	0.8	164.0	164.0	165.0	1.0
G	3,300	87	453	0.7	164.0	164.0	165.0	1.0
H	3,501	19	96	3.1	164.1	164.1	165.1	1.0
I	3,765	55	210	1.4	164.6	164.6	165.6	1.0
J	4,873	16	113	2.7	165.6	165.6	166.5	0.9
K	5,137	30	255	1.2	166.5	166.5	167.0	0.5
L	5,243	16	69	4.4	166.5	166.5	167.0	0.5
M	5,507	16	70	3.4	167.9	167.9	168.5	0.6

¹Feet above Arlington Reservoir

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MUNROE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	300	810*	3,445	0.8	4.4	0.5 ³	1.0	0.5
B	510	454	3,583	0.7	4.4	0.5 ³	1.0	0.5
C	2,770	1,076*	5,650	0.4	4.4	0.5 ³	1.0	0.5
D	7,430	231	1,572	1.1	4.4	0.6 ³	1.1	0.5
E	11,440	150	1,368	1.8	4.7	3.2 ³	4.1	0.9
F	13,690	126	1,245	1.9	4.9	3.6 ³	4.4	0.8
G	14,270	115*	1,157	2.1	5.7	4.5 ³	5.3	0.8
H	14,500	155	1,449	1.6	5.8	5.8 ³	5.8	0.0
I	16,010	230	1,704	1.4	6.0	5.9 ³	5.9	0.0
J	18,280	368	1,934	1.2	6.2	5.9 ³	5.9	0.0
K	18,970	147	1,240	1.8	6.3	5.9 ³	6.0	0.1
L	19,590	177	1,445	1.6	6.5	5.9 ³	6.4	0.5
M	22,230	226*	1,934	1.2	6.7	6.2 ³	7.1	0.9
N	24,620	351	2,049	1.1	6.9	6.5 ³	6.9	0.4

¹Feet above Amelia Earhart Dam

²The measured top width on the FIRM may differ due to the effects of ineffective flow, the exclusion of small pocket areas due to map scale limitations, or is estimated due to HEC-RAS modeling limitations

³Flooding controlled by Boston Harbor

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: MYSTIC RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	890	10	20	7.5	144.9	144.9	145.3	0.4
B	1,040	10	42	3.6	148.2	148.2	148.2	0.0
C	2,750	10	29	2.6	157.2	157.2	157.6	0.4
D	3,890	10	13	5.8	170.2	170.2	170.3	0.1
E	5,800	10	29	2.6	209.8	209.8	210.5	0.7
F	6,675	7	11	1.7	217.1	217.1	217.2	0.1

¹Feet above confluence with Nashoba Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NAGOG BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	160	80	394	4.1	123.8	117.0 ²	117.7	0.7
B	930	100	339	4.7	123.8	118.3 ²	118.7	0.4
C	6,618	40	215	3.9	123.8	123.3 ²	124.0	0.7
D	7,620	40	170	5.0	124.0	124.0	124.8	0.8
E	8,470	30	170	4.9	126.1	126.1	126.4	0.3
F	8,486	30	180	4.8	126.1	126.1	126.5	0.4
G	9,410	50	290	2.9	127.1	127.1	127.7	0.6
H	9,470	50	290	2.9	127.2	127.2	127.7	0.5
I	9,760	100	600	1.4	127.5	127.5	128.0	0.5
J	9,920	30	160	5.5	127.6	127.6	128.1	0.5
K	9,950	40	230	3.6	127.9	127.9	128.3	0.4
L	10,920	60	260	3.2	129.0	129.0	129.7	0.7
M	14,145	160	660	1.3	137.1	137.1	137.3	0.2
N	15,245	120	420	2.0	137.4	137.4	137.7	0.3
O	15,645	200	620	1.4	137.6	137.6	138.0	0.4
P	15,885	200	1,350	0.6	137.6	137.6	138.1	0.5
Q	16,655	300	2,080	0.4	137.7	137.7	138.1	0.4
R	17,135	180	730	1.2	137.7	137.7	138.2	0.5
S	17,555	320	1,270	0.7	137.8	137.8	138.3	0.5
T	17,965	50	210	4.0	137.8	137.8	138.2	0.4
U	18,445	130	740	1.1	138.1	138.1	138.7	0.6

¹Feet above confluence with Assabet River

²Elevation computed without consideration of backwater effects from Assabet River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NASHOBA BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	18,610	30	130	6.5	138.2	138.2	138.9	0.7
W	18,765	90	290	2.9	140.6	140.6	140.8	0.2
X	19,915	110	330	2.5	141.9	141.9	142.4	0.5
Y	20,015	110	370	2.2	142.0	142.0	142.7	0.7
Z	21,015	60	310	2.7	142.9	142.9	143.7	0.8
AA	21,215	30	160	5.3	143.1	143.1	143.9	0.8
AB	21,265	40	230	3.5	143.6	143.6	144.3	0.7
AC	22,800	220	810	1.0	145.0	145.0	145.4	0.4
AD	23,780	80	200	4.1	145.8	145.8	146.0	0.2
AE	23,900	50	290	2.8	146.4	146.4	146.6	0.2
AF	24,430	190	440	1.9	147.1	147.1	147.3	0.2
AG	24,560	190	310	2.6	147.4	147.4	147.6	0.2
AH	24,614	210	1,210	0.7	152.5	152.5	152.7	0.2
AI	25,680	200	870	0.9	152.6	152.6	152.9	0.3
AJ	26,880	100	140	5.7	153.2	153.2	153.3	0.1
AK	28,080	90	340	2.4	157.2	157.2	157.7	0.5
AL	28,130	90	370	2.2	157.4	157.4	158.1	0.7
AM	28,620	40	210	3.9	157.9	157.9	158.6	0.7
AN	28,930	310	1,100	0.7	167.2	167.2	167.2	0.0
AO	30,540	40	180	4.6	167.3	167.3	167.3	0.0
AP	30,660	10	90	9.3	168.7	168.7	168.7	0.0

¹Feet above confluence with Assabet River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NASHOBA BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AQ	30,690	40	270	3.0	170.3	170.3	170.4	0.1
AR	32,260	190	1,060	0.8	170.7	170.7	170.8	0.1
AS	32,385	220	1,250	0.6	171.7	171.7	171.8	0.1
AT	32,400	700	3,478	0.2	171.7	171.7	172.7	1.0
AU	33,090	230	1,513	0.6	171.7	171.7	172.7	1.0
AV	33,210	700	2,586	0.3	173.2	173.2	173.9	0.7
AW	34,060	700	3,269	0.2	173.2	173.2	173.9	0.7
AX	35,210	670	2,281	0.3	173.3	173.3	174.0	0.7
AY	35,970	48	91	7.7	174.6	174.6	174.6	0.0
AZ	36,110	20	184	3.8	180.7	180.7	180.7	0.0
BA	36,650	50	497	1.4	180.7	180.7	181.2	0.5
BB	37,200	25	218	3.1	180.7	180.7	181.5	0.8

¹Feet above confluence with Assabet River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NASHOBA BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A-AP ²								
AQ	57,701	621	4,786	3.6	176.8	176.8	177.4	0.6
AR	60,507	398	4,504	3.8	177.7	177.7	178.5	0.8
AS	61,732	235	3,015	5.5	178.3	178.3	179.0	0.7
AT	63,269	291	3,275	5.1	179.3	179.3	180.1	0.8
AU	63,971	267	3,431	4.8	180.0	180.0	180.6	0.6
AV	65,280	254	3,334	5.0	180.3	180.3	181.2	0.9
AW	67,696	409	4,078	4.1	181.8	181.8	182.6	0.8
AX	69,657	935	7,352	2.3	183.0	183.0	183.6	0.6
AY	71,665	971	6,319	2.2	183.7	183.7	184.2	0.5
AZ	72,474	845	5,625	2.5	183.8	183.8	184.4	0.6
BA	72,718	705	4,899	2.9	183.9	183.9	184.5	0.6
BB	73,377	266	3,264	4.3	183.9	183.9	184.8	0.9
BC	73,906	324	2,843	5.0	184.5	184.5	185.3	0.8
BD	74,194	261	2,938	4.8	184.8	184.8	185.5	0.7
BE	75,359	136	1,499	9.5	186.1	186.1	186.6	0.5
BF	75,537	262	2,757	5.1	189.1	189.1	189.2	0.1
BG	75,834	266	4,810	3.0	203.8	203.8	203.9	0.1
BH	78,123	331	4,626	3.1	204.1	204.1	204.1	0.0
BI	81,639	644	6,332	2.2	204.5	204.5	204.6	0.1
BJ	87,036	921	7,230	2.0	205.0	205.0	205.2	0.2

¹Feet above confluence with Merrimack River

²Cross sections A through AP are in Hillsborough County, New Hampshire

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NASHUA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BK	88,094	875	6,791	2.1	205.1	205.1	205.3	0.2
BL	90,918	1,882	13,830	1.0	205.4	205.4	205.8	0.4
BM	93,012	1,372	8,971	1.6	205.5	205.5	205.9	0.4
BN	94,370	740	3,974	3.5	205.7	205.7	206.3	0.6
BO	96,104	773	5,506	2.6	206.8	206.8	207.6	0.8
BP	97,766	970	6,987	2.0	207.2	207.2	208.1	0.9
BQ	99,558	1,682	10,430	1.4	207.4	207.4	208.3	0.9
BR	102,844	1,057	6,935	2.0	207.9	207.9	208.9	1.0
BS	105,307	1,131	8,160	1.7	208.5	208.5	209.5	1.0
BT	107,939	845	7,892	1.8	209.2	209.2	210.2	1.0
BU	109,322	1,307	9,583	1.5	209.5	209.5	210.5	1.0
BV	111,199	302	3,691	3.8	211.2	211.2	212.0	0.8
BW	112,837	780	7,350	1.9	211.8	211.8	212.7	0.9
BX	114,586	379	4,372	3.2	212.1	212.1	213.1	1.0
BY	117,367	1,337	12,925	1.1	212.8	212.8	213.8	1.0
BZ	119,538	726	5,561	2.5	213.0	213.0	214.0	1.0
CA	120,682	1,024	6,971	2.0	213.3	213.3	214.3	1.0
CB	122,964	180	2,850	4.7	214.5	214.5	215.3	0.8
CC	123,513	527	4,634	2.9	214.9	214.9	215.7	0.8
CD	123,956	1,021	9,618	1.4	215.9	215.9	216.7	0.8
CE	125,369	664	6,591	2.0	216.1	216.1	216.9	0.8

¹Feet above confluence with Merrimack River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NASHUA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CF	127,955	857	9,244	1.4	216.5	216.5	217.5	1.0
CG	131,597	825	8,040	1.7	217.2	217.2	218.2	1.0
CH	133,517	888	9,435	1.4	217.6	217.6	218.6	1.0
CI	134,402	1,955	18,092	0.7	217.8	217.8	218.8	1.0
CJ	136,380	510	5,489	2.4	220.6	220.6	221.0	0.4
CK	137,359	524	4,734	2.8	220.8	220.8	221.3	0.5
CL	138,005	258	4,158	3.2	221.1	221.1	221.7	0.6
CM	138,418	166	2,604	5.0	222.5	222.5	222.6	0.1
CN	139,683	191	2,889	4.5	223.9	223.9	224.0	0.1
CO	140,746	159	2,533	5.2	224.3	224.3	224.5	0.2
CP	142,342	174	2,762	4.7	224.7	224.7	225.4	0.7
CQ	143,636	155	2,610	5.0	225.2	225.2	226.0	0.8
CR	144,441	300	4,260	3.1	226.2	226.2	227.0	0.8
CS	146,123	388	5,078	2.5	226.4	226.4	227.4	1.0
CT	148,410	958	8,110	1.6	227.0	227.0	228.0	1.0
CU	150,482	269	3,928	3.3	227.4	227.4	228.4	1.0

¹Feet above confluence with Merrimack River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NASHUA RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,913	338	1,454	3.1	183.9	178.3 ²	179.3	1.0
B	3,780	292	1,044	4.3	183.9	180.5 ²	181.1	0.6
C	4,533	105	683	6.6	183.9	183.0 ²	183.3	0.3
D	4,674	195	1,042	4.3	184.0	184.0	184.2	0.2
E	4,717	149	947	4.8	184.0	184.0	184.2	0.2
F	4,838	106	795	5.7	184.4	184.4	184.5	0.1
G	5,298	130	785	5.8	185.3	185.3	185.7	0.4
H	5,972	97	583	7.8	187.8	187.8	188.5	0.7
I	6,304	66	427	10.6	191.3	191.3	191.3	0.0
J	6,698	96	538	8.4	195.7	195.7	195.7	0.0
K	7,426	98	738	6.1	198.6	198.6	199.1	0.5
L	7,997	236	1,100	4.0	199.7	199.7	200.7	1.0
M	9,239	262	1,537	2.9	201.5	201.5	202.5	1.0
N	10,118	85	771	5.8	202.5	202.5	203.4	0.9
O	10,586	75	683	6.5	203.3	203.3	204.2	0.9
P	11,097	100	820	5.4	204.5	204.5	205.5	1.0
Q	11,522	90	773	5.7	205.3	205.3	206.3	1.0
R	12,342	199	1,636	2.7	206.7	206.7	207.5	0.8
S	12,898	190	1,621	2.7	207.0	207.0	207.9	0.9
T	13,594	113	925	4.8	207.5	207.5	208.4	0.9
U	14,237	137	910	4.9	208.7	208.7	209.4	0.7

¹Feet above confluence with Nashua River

²Elevation computed without consideration of backwater effects from Nashua River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NISSITISSIT RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	14,489	160	1,458	3.0	210.4	210.4	210.6	0.2
W	14,838	290	2,247	2.0	210.6	210.6	211.0	0.4
X	15,718	106	881	4.9	211.0	211.0	211.5	0.5
Y	16,400	102	725	5.9	212.0	212.0	212.5	0.5
Z	16,468	121	897	4.8	212.5	212.5	213.2	0.7
AA	16,545	154	1,426	3.0	212.9	212.9	213.8	0.9
AB	17,234	342	2,786	1.5	213.2	213.2	214.2	1.0
AC	17,948	537	3,645	1.2	213.4	213.4	214.4	1.0
AD	19,164	254	1,601	2.7	213.9	213.9	214.8	0.9
AE	19,890	115	915	4.7	214.6	214.6	215.4	0.8
AF	21,006	115	1,123	3.6	216.0	216.0	216.7	0.7
AG	22,009	179	1,811	2.3	216.7	216.7	217.4	0.7
AH	22,446	211	2,075	2.0	216.9	216.9	217.6	0.7
AI	23,660	291	3,047	1.3	217.2	217.2	218.0	0.8

¹Feet above confluence with Nashua River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NISSITISSIT RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	4,165	190	1,123	2.1	217.8	211.1 ²	211.8	0.7
B	4,990	290	1,737	1.4	217.8	211.3 ²	212.0	0.7
C	5,500	575	1,660	1.4	217.8	211.5 ²	212.2	0.7
D	6,130	491	1,987	1.2	217.8	211.6 ²	212.3	0.7
E	6,900	315	1,436	1.7	217.8	211.8 ²	212.5	0.7
F	7,285	40	228	3.2	217.8	214.1 ²	214.1	0.0
G	7,510	110	768	0.9	217.8	217.8	217.8	0.0
H	8,100	390	2,389	0.3	220.8	220.8	220.8	0.0
I	8,370	255	1,543	0.5	220.8	220.8	220.8	0.0
J	8,532	162	675	1.1	220.9	220.9	220.9	0.0
K	8,890	185	1,791	0.4	221.0	221.0	221.0	0.0
L	12,066	990	9,370	0.1	226.9	226.9	226.9	0.0
M	13,125	450	6,752	0.1	226.9	226.9	226.9	0.0
N	14,250	320	4,210	0.2	226.9	226.9	226.9	0.0
O	14,600	100	1,137	0.6	227.0	227.0	227.0	0.0

¹Feet above confluence with Nashua River

²Elevation computed without consideration of backwater effects from Nashua River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NONACOICUS BROOK 1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	360	240	1,187	0.9	227.2	221.2 ²	221.4	0.2

¹Feet above confluence with Nonacoicus Brook 1

²Elevation computed without consideration of backwater effects from Nonacoicus Brook 1

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NONACOICUS BROOK 2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	422	750	2,035	0.5	118.5	116.1 ²	116.3	0.2
B	1,426	856	3,033	0.4	118.5	116.1 ²	116.4	0.3
C	1,637	1,303	6,715	0.2	118.5	116.6 ²	117.2	0.6
D	2,318	904	2,767	0.4	118.5	116.7 ²	117.2	0.5
E	2,598	499	2,771	0.3	119.9	119.9	119.9	0.0
F	3,073	244	1,216	0.6	119.9	119.9	119.9	0.0
G	3,284	519	3,980	0.2	119.9	119.9	120.1	0.2
H	3,606	494	3,422	0.2	119.9	119.9	120.1	0.2
I	3,807	1,217	9,580	0.1	120.6	120.6	121.4	0.8
J	4,863	1,296	9,498	0.1	120.6	120.6	121.4	0.8
K	6,024	202	605	0.7	120.6	120.6	121.4	0.8

¹Feet above confluence with Shawsheen River

²Elevation computed without consideration of backwater effects from Shawsheen River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: NORTH LEXINGTON BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,350	250	1,676	0.2	119.3	118.8 ²	119.4	0.6
B	1,800	250	1,373	0.3	119.3	119.2 ²	119.5	0.3
C	2,575	220	896	0.4	119.3	119.2 ²	119.5	0.3
D	3,595	41	57	6.1	119.3	119.3	119.3	0.0
E	4,790	50	1,606	0.1	120.6	120.6	121.1	0.5
F	5,675	383	1,024	0.2	120.6	120.6	121.1	0.5
G	6,815	35	87	2.3	120.6	120.6	121.0	0.4
H	8,035	50	512	0.4	121.0	121.0	121.5	0.5
I	9,450	413	1,265	0.2	124.0	124.0	124.0	0.0
J	10,650	868	2,740	0.1	124.0	124.0	124.0	0.0
K	12,595	20	379	0.5	137.6	137.6	137.9	0.3
L	13,255	20	58	3.4	141.2	141.2	141.3	0.1

¹Feet above confluence with Concord River

²Elevation computed without consideration of backwater effects from Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: PAGES BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	175	146	261	1.5	120.6	118.6 ²	118.6	0.0
B	1,375	176	827	0.5	122.9	122.9	122.9	0.0
C	2,220	114	435	0.9	122.9	122.9	122.9	0.0
D	3,220	225	1,847	0.2	136.1	136.1	136.6	0.5
E	3,445	115	701	0.5	136.1	136.1	136.7	0.6
F	3,590	70	555	0.6	136.2	136.2	136.8	0.6
G	4,280	83	297	1.1	139.3	139.3	140.3	1.0
H	4,350	19	47	7.1	140.0	140.0	140.1	0.1
I	4,600	50	252	1.3	147.8	147.8	148.0	0.2

¹Feet above confluence with Pages Brook

²Elevation computed without consideration of backwater effects from Pages Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: PAGES BROOK BRANCH

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	7,750	56	105	2.3	121.2	114.7 ²	115.6	0.9
B	9,590	150	585	0.4	123.5	123.5	123.5	0.0
C	10,640	150	252	1.0	123.8	123.8	123.8	0.0
D	11,540	190	232	1.0	124.7	124.7	124.8	0.1
E	12,550	9	29	8.2	131.1	131.1	132.0	0.9
F-O*	*	*	*	*	*	*	*	*

¹Feet above confluence with Sudbury River

²Elevation computed without consideration of backwater effects from Sudbury River

*No data available

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: PANTRY BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,990	32	106	5.2	320.8	320.8	321.3	0.5
B	3,550	45	91	6.1	328.4	328.4	328.6	0.2
C	4,640	25	71	7.8	335.1	335.1	335.2	0.1
D	7,300	35	84	6.6	349.5	349.5	350.0	0.5
E	9,145	17	65	8.6	364.1	364.1	364.6	0.5

¹Feet above confluence with Walker Brook 2

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: PEARL HILL BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	137	22	47	6.2	68.9	55.0 ²	55.0	0.0
B	912	32	59	4.9	68.9	62.4 ²	62.4	0.0
C	1,272	35	167	1.7	72.9	72.9	72.9	0.0
D	1,433	74	406	0.7	76.9	76.9	76.9	0.0
E	1,715	76	357	0.8	76.9	76.9	76.9	0.0
F	1,746	80	394	0.7	76.9	76.9	76.9	0.0
G	1,901	55	403	0.7	76.9	76.9	76.9	0.0
H	2,291	40	272	1.1	76.9	76.9	76.9	0.0
I	2,618	48	426	0.7	80.8	80.8	81.1	0.3
J	3,070	123	1,064	0.3	80.8	80.8	81.1	0.3
K	3,890	76	488	0.6	80.8	80.8	81.1	0.3
L	4,343	47	311	0.9	80.9	80.9	81.2	0.3
M	4,643	43	173	1.5	81.1	81.1	81.5	0.4
N	4,808	47	196	1.4	81.1	81.1	81.6	0.5
O	5,198	138	352	0.8	81.2	81.2	81.7	0.5
P	5,472	39	42	6.4	83.7	83.7	83.7	0.0
Q	5,587	44	46	5.8	89.5	89.5	89.5	0.0
R	5,747	44	46	5.8	99.5	99.5	99.5	0.0
S	5,857	44	46	5.8	102.5	102.5	102.5	0.0
T	5,989	51	60	4.4	104.8	104.8	104.8	0.0
U	6,134	58	76	3.5	106.1	106.1	106.1	0.0

¹Feet above confluence with Beaver Brook 3

²Elevation computed without consideration of backwater effects from Merrimack River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: PEPPERMINT BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	6,790	69	104	2.5	107.8	107.8	107.9	0.1
W	7,131	144	443	0.6	110.4	110.4	110.4	0.0
X	7,396	435	1,090	0.2	110.4	110.4	110.4	0.0
Y	8,305	428	687	0.4	110.5	110.5	110.5	0.0
Z	9,216	415	633	0.4	110.5	110.5	110.5	0.0
AA	9,457	65	43	4.6	110.6	110.6	110.6	0.0
AB	9,647	463	1,323	0.2	112.6	112.6	112.7	0.1
AC	10,026	817	1,544	0.1	112.6	112.6	112.7	0.1
AD	10,658	121	52	3.7	113.9	113.9	113.9	0.0
AE	10,990	31	65	3.0	120.4	120.4	120.4	0.0
AF	12,246	35	156	1.3	135.3	135.3	136.2	0.9
AG	12,719	50	298	0.7	141.8	141.8	142.7	0.9
AH	13,491	297	2,622	0.1	141.8	141.8	142.7	0.9
AI	13,863	195	1,414	0.1	141.8	141.8	142.7	0.9
AJ	14,271	128	955	0.1	141.8	141.8	142.7	0.9
AK	14,518	270	2,137	0.1	141.8	141.8	142.7	0.9
AL	14,669	55	417	0.3	141.8	141.8	142.7	0.9
AM	14,987	65	531	0.2	141.8	141.8	142.7	0.9

¹Feet above confluence with Beaver Brook 3

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: PEPPERMINT BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	920	20	61	6.5	121.1	111.4 ²	112.3	0.9
B	1,930	120	436	0.9	121.1	113.6 ²	114.1	0.5
C	3,790	77	168	1.7	121.1	115.1 ²	116.0	0.9
D	4,380	17	59	5.0	121.1	118.0 ²	118.1	0.1
E	5,270	115	300	1.0	121.1	118.4 ²	118.9	0.5
F	6,660	75	192	1.5	121.1	119.9 ²	120.8	0.9

¹Feet above confluence with Sudbury River

²Elevation computed without consideration of backwater effects from Sudbury River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: PINE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	375	210	1,960	0.1	121.2	121.2	122.2	1.0
B	5,380	20	21	4.3	133.3	133.3	133.5	0.2
C	5,875	4	8	8.2	147.5	147.5	147.5	0.0
D	6,220	20	86	0.8	156.8	156.8	156.8	0.0
E	6,595	20	41	1.6	159.7	159.7	160.0	0.3
F	6,865	20	37	1.8	160.5	160.5	161.4	0.9
G	7,170	40	78	0.8	161.1	161.1	162.0	0.9
H	8,690	20	41	1.6	162.4	162.4	163.2	0.8

¹Feet above confluence with Sudbury River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: POLE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	336	10	33	4.3	141.2	141.2	141.2	0.0
B	693	20	34	5.2	157.8	157.8	158.1	0.3
C	2,112	56	111	1.7	165.4	165.4	166.3	0.9
D	3,030	21	35	4.7	176.7	176.7	177.3	0.6
E	3,572	26	25	6.1	186.0	186.0	186.2	0.2
F	3,787	34	55	0.0	193.1	193.1	194.1	1.0
G	5,056	80	81	0.0	193.1	193.1	194.1	1.0

¹Feet above confluence with Fort Pond Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: PRATTS BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,072	30	432	0.5	188.1	188.1	188.1	0.0
B	1,252	67	822	0.2	188.1	188.1	188.1	0.0
C	1,924	67	678	0.3	188.1	188.1	188.1	0.0
D	2,171	63	675	0.3	188.1	188.1	188.1	0.0
E	2,460	57	455	0.4	188.1	188.1	188.1	0.0
F	2,653	40	301	0.7	188.4	188.4	188.6	0.2
G	2,734	33	251	0.8	188.4	188.4	188.6	0.2
H	2,902	150	1,241	0.2	188.4	188.4	188.7	0.3
I	3,504	272	1,926	0.1	188.4	188.4	188.7	0.3
J	4,253	235	1,229	0.1	188.4	188.4	188.7	0.3
K	5,047	115	476	0.4	188.4	188.4	188.7	0.3
L	5,453	67	104	1.2	188.4	188.4	188.7	0.3
M	5,658	39	25	4.8	189.9	189.9	189.9	0.0
N	5,844	48	37	3.3	192.0	192.0	192.0	0.0
O	6,283	35	46	2.6	194.8	194.8	194.8	0.0
P	6,908	93	85	1.4	197.2	197.2	197.2	0.0
Q	7,762	77	38	3.2	203.3	203.3	203.3	0.0
R	8,279	17	21	5.7	214.6	214.6	214.6	0.0
S	8,618	12	20	6.0	220.9	220.9	221.0	0.1
T	8,887	29	93	1.3	227.5	227.5	227.5	0.0
U	9,005	25	124	1.0	228.6	228.6	229.5	0.9
V	9,160	17	95	1.0	228.9	228.9	229.9	1.0

¹Feet above confluence with Nashua River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: REEDY MEADOW BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	148	100	512	1.2	58.0	51.4 ²	51.4	0.0
B	789	55	109	5.4	58.0	55.7 ²	55.9	0.2
C	2,735	70	150	3.9	86.0	86.0	86.1	0.1
D	4,885	220	767	0.8	86.9	86.9	87.7	0.8
E	6,342	95	340	1.7	101.2	101.2	101.4	0.2
F	7,705	80	560	1.1	106.9	106.9	107.8	0.9
G	8,464	135	579	0.9	107.7	107.7	108.3	0.6
H	9,246	240	1,076	0.5	108.1	108.1	108.7	0.6
I	12,481	30	50	3.1	134.1	134.1	134.1	0.0

¹Feet above confluence with Merrimack River

²Elevation computed without consideration of backwater effects from Merrimack River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: RICHARDSON BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	810	35	258	4.4	78.6	76.0 ²	76.1	0.1
B	1,350	40	357	3.2	79.1	79.1	79.2	0.1
C	3,260	98	554	2.0	94.8	94.8	94.8	0.0
D	4,600	55	311	3.7	97.9	97.9	98.0	0.1
E	9,745	65	427	2.7	102.1	102.1	103.1	1.0
F	12,260	62	319	3.1	103.4	103.4	103.6	0.2
G	12,530	64	404	2.5	103.7	103.7	103.9	0.2
H	12,987	88	456	2.3	104.0	104.0	105.0	1.0
I	13,452	73	484	2.1	104.8	104.8	105.6	0.8
J	13,726	75	511	2.0	105.0	105.0	105.7	0.7
K	14,152	77	531	1.9	105.5	105.5	106.1	0.6
L	14,510	74	459	2.2	105.8	105.8	106.4	0.6
M	14,595	75	461	2.2	105.9	105.9	106.5	0.6
N	15,283	93	593	1.7	106.4	106.4	106.9	0.5
O	15,810	75	455	2.3	106.9	106.9	107.3	0.4
P	16,050	63	489	2.1	107.1	107.1	107.5	0.4
Q	16,450	120	1,046	1.6	107.3	107.3	107.6	0.3
R	19,040	180	1,027	1.5	107.3	107.3	108.0	0.7
S	19,810	180	1,132	1.6	107.4	107.4	108.2	0.8
T	20,250	67	398	2.6	107.5	107.5	108.4	0.9
U	20,400	120	707	2.5	107.8	107.8	108.7	0.9

¹Feet above confluence with Concord River

²Elevation computed without consideration of backwater effects from Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: RIVER MEADOW BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	20,795	120	646	2.6	108.0	108.0	109.0	1.0
W	20,900	120	771	1.8	110.5	110.5	110.8	0.3
X	21,460	120	768	2.1	110.5	110.5	111.0	0.5
Y	21,530	120	922	1.5	110.5	110.5	111.1	0.6
Z	21,750	180	1,123	1.6	110.5	110.5	111.2	0.7
AA	23,100	200	1,132	1.7	110.6	110.6	111.4	0.8
AB	23,750	200	1,157	1.2	110.7	110.7	111.5	0.8
AC	24,200	160	943	1.1	110.7	110.7	111.6	0.9
AD	24,330	160	922	1.1	110.8	110.8	111.6	0.8
AE	25,120	210	1,126	1.2	110.8	110.8	111.7	0.9
AF	25,890	217	955	1.2	110.9	110.9	111.9	1.0
AG	26,425	210	938	1.5	111.1	111.1	112.0	0.9
AH	27,500	210	958	1.4	111.3	111.3	112.3	1.0
AI	28,640	68	358	2.9	111.7	111.7	112.6	0.9
AJ	28,715	100	604	1.4	113.0	113.0	113.9	0.9
AK	29,150	140	817	0.8	113.1	113.1	114.0	0.9
AL	29,280	140	810	0.9	113.2	113.2	114.1	0.9
AM	30,380	190	784	1.6	113.4	113.4	114.3	0.9
AN	30,570	190	813	1.4	113.6	113.6	114.4	0.8
AO	31,430	190	802	1.5	113.9	113.9	114.8	0.9
AP	32,050	140	656	1.6	114.0	114.0	115.0	1.0
AQ	32,130	83	612	1.1	116.1	116.1	116.7	0.6

¹Feet above confluence with Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: RIVER MEADOW BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,165	15	27	3.5	150.5	150.5	150.7	0.2
B	1,700	16	43	2.2	153.0	153.0	153.8	0.8
C	2,088	9	14	6.7	156.1	156.1	156.1	0.0
D	2,313	12	26	3.6	159.4	159.4	159.8	0.4
E	2,848	22	36	2.2	162.8	162.8	163.0	0.2
F	3,080	78	473	0.2	167.8	167.8	168.7	0.9
G	3,864	59	249	0.3	167.8	167.8	168.7	0.9
H	4,280	10	41	1.9	167.8	167.8	168.7	0.9
I	4,800	36	88	0.9	168.4	168.4	169.2	0.8
J	5,149	15	15	5.2	170.5	170.5	170.5	0.0
K	5,295	11	23	3.4	172.2	172.2	172.2	0.0
L	5,488	26	26	1.2	173.0	173.0	173.0	0.0

¹Feet above confluence with Hop Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: RUN BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	158	120	928	1.2	159.3	159.3	160.3	1.0
B	211	195	1,420	0.8	159.7	159.7	160.6	0.9
C	1,056	60	508	2.2	159.8	159.8	160.6	0.8
D	1,848	605	3,378	0.3	159.9	159.9	160.9	1.0
E	2,376	200	1,202	0.9	159.9	159.9	160.9	1.0
F	4,224	85	668	1.7	160.1	160.1	161.1	1.0
G	5,602	320	2,162	0.5	160.3	160.3	161.3	1.0
H	7,603	115	913	1.2	160.4	160.4	161.4	1.0
I	9,768	550	3,664	0.3	160.5	160.5	161.5	1.0
J	10,876	160	1,202	0.9	160.5	160.5	161.5	1.0
K	12,302	320	1,598	0.7	160.7	160.7	161.7	1.0
L	12,461	520	3,077	0.4	160.7	160.7	161.7	1.0
M	14,098	340	2,649	0.4	160.8	160.8	161.8	1.0
N	15,365	60	526	0.7	160.8	160.8	161.8	1.0
O	15,840	110	1,009	0.4	160.8	160.8	161.8	1.0
P	16,104	90	833	0.4	164.5	164.5	165.2	0.7
Q	16,632	30	382	1.0	164.5	164.5	165.2	0.7
R	18,374	505	5,134	0.1	164.5	164.5	165.2	0.7
S	20,170	70	870	0.4	164.5	164.5	165.2	0.7
T	20,698	130	1,630	0.2	164.5	164.5	165.2	0.7
U	21,331	50	590	0.6	164.5	164.5	165.2	0.7

¹Feet above state boundary, approximately 12,400 feet below Main Street

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SALMON BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	22,018	150	1,391	0.3	167.6	167.6	167.6	0.0
W	23,390	490	4,761	0.1	167.6	167.6	167.6	0.0

¹Feet above state boundary, approximately 12,400 feet below Main Street

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SALMON BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,948	100	290	3.1	126.5	123.1 ²	123.8	0.7
B	2,091	200	534	1.7	126.5	124.4 ²	124.9	0.5
C	2,497	100	288	4.0	126.5	124.7 ²	125.2	0.5
D	2,651	300	864	1.0	126.5	125.3 ²	126.0	0.7
E	3,817	100	368	2.4	126.7	126.7	127.4	0.7
F	3,976	100	309	1.8	128.0	128.0	128.4	0.4
G	4,192	100	361	1.5	128.2	128.2	128.6	0.4
H	4,356	100	321	1.7	128.3	128.3	128.8	0.5
I	5,396	40	110	4.9	128.9	128.9	129.3	0.4
J	5,555	100	385	0.9	132.8	132.8	133.4	0.6
K	6,093	100	457	0.8	132.9	132.9	133.6	0.7
L	7,239	10	34	10.6	136.0	136.0	136.1	0.1

¹Feet above confluence with Vine Brook

²Elevation computed without consideration of backwater effects from Vine Brook

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SANDY BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AL ²	21,923	222	751	1.6	52.9	52.9	53.9	1.0
AM	22,622	396	1,326	0.9	53.3	53.3	54.3	1.0
AN	22,767	223	804	1.0	54.2	54.2	54.5	0.3
AO	23,039	252	414	2.0	54.3	54.3	54.6	0.3
AP	23,059	223	336	2.4	54.3	54.3	54.7	0.4
AQ	23,079	272	458	1.8	54.4	54.4	54.8	0.4
AR	23,779	97	415	2.0	55.0	55.0	55.8	0.8
AS	23,991	175	670	1.2	55.1	55.1	56.1	1.0
AT	24,581	168	600	1.4	55.4	55.4	56.4	1.0
AU	26,138	100	299	2.7	57.1	57.1	58.1	1.0
AV	26,664	127	424	1.9	58.1	58.1	59.1	1.0
AW	27,515	157	481	1.7	59.3	59.3	60.0	0.7
AX	27,836	116	448	1.8	59.7	59.7	60.3	0.6
AY	29,923	134	210	3.9	62.3	62.3	62.6	0.3
AZ	30,515	71	290	2.8	64.1	64.1	64.3	0.2
BA	30,653	114	501	1.6	66.0	66.0	66.9	0.9
BB	30,794	98	260	3.1	66.0	66.0	67.0	1.0
BC	31,285	53	235	3.5	68.7	68.7	69.3	0.6
BD	31,452	40	154	5.3	69.0	69.0	69.6	0.6
BE	31,772	594	4,031	0.2	75.0	75.0	75.5	0.5
BF	32,180	130	821	1.0	75.0	75.0	75.5	0.5

¹Feet above Hamilton Street

²Cross sections A-AK (Essex County, Massachusetts) in floodway data tables for other counties

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SAUGUS RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BG	32,231	118	447	1.8	75.0	75.0	75.5	0.5
BH	32,281	89	705	1.2	75.1	75.1	75.6	0.5
BI	34,386	143	1,086	0.8	75.1	75.1	75.7	0.6
BJ	35,610	159	1,139	0.7	75.1	75.1	75.8	0.7
BK	38,010	237	1,367	0.4	75.1	75.1	75.9	0.8
BL	40,856	258	957	0.6	75.1	75.1	76.0	0.9
BM	42,487	325	713	0.6	75.1	75.1	76.1	1.0
BN	43,043	92	246	1.8	75.5	75.5	76.3	0.8
BO	43,755	62	244	1.9	78.2	78.2	78.4	0.2
BP	44,012	56	153	3.0	78.2	78.2	78.6	0.4
BQ	44,160	60	137	3.3	78.2	78.2	78.8	0.6
BR	44,378	60	212	2.1	78.2	78.2	79.2	1.0
BS	44,636	63	245	1.8	78.5	78.5	79.5	1.0
BT	44,921	25	131	3.4	79.0	79.0	79.9	0.9
BU	45,683	51	203	2.2	80.3	80.3	80.7	0.4
BV	46,543	20	121	1.0	80.4	80.4	81.1	0.7
BW	47,464	16	88	1.4	80.4	80.4	81.2	0.8
BX	48,124	26	83	1.5	80.4	80.4	81.4	1.0
BY	48,174	17	65	1.9	80.5	80.5	81.4	0.9
BZ	48,328	21	90	1.4	83.0	83.0	83.0	0.0

¹Feet above Hamilton Street

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SAUGUS RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,742	116	448	3.0	77.5	75.1 ²	75.4	0.3
B	3,590	26	23	4.7	77.5	76.4 ²	76.5	0.1
C	4,224	14	48	2.3	96.2	96.2	97.2	1.0

¹Feet above confluence with Shawsheen River

²Elevation computed without consideration of backwater effects from Shawsheen River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SAUNDERS BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	528	35	107	6.9	107.7	107.7	107.9	0.2
B	829	40	104	7.1	113.6	113.6	113.9	0.3
C	1,304	45	215	3.5	116.5	116.5	117.3	0.8
D	1,827	20	124	5.9	117.7	117.7	118.4	0.7
E	2,038	50	532	1.4	125.5	125.5	126.0	0.5
F	2,445	50	535	1.4	125.5	125.5	126.1	0.6
G	3,015	50	426	1.7	125.5	125.5	126.2	0.7
H	3,432	50	396	1.8	125.6	125.6	126.4	0.8

¹Feet above downstream side of Noah Clapp Dam

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SAWMILL BROOK 1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,510	30	104	5.3	119.1	118.2 ²	118.7	0.5
B	1,799	50	674	0.8	130.9	130.9	131.4	0.5

¹Feet above confluence with Concord River

²Elevation computed without consideration of backwater effects from Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SAWMILL BROOK 2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	180	203	510	0.3	44.9	44.1 ³	44.2	0.1
B	1,180	25	42	3.3	48.6	48.6	48.6	0.0
C	1,730	27	43	3.1	53.9	53.9	53.9	0.0
D	2,020	25	45	1.7	57.8	57.8	57.9	0.1
E	2,900	11	12	6.2	65.7	65.7	65.7	0.0
F	2,990	5 ²	10	7.7	68.5	68.5	68.5	0.0
G	3,040	5 ²	16	4.9	70.7	70.7	70.8	0.1
H	3,640	34	40	1.6	80.1	80.1	80.1	0.0
I	3,990	69 ²	207	0.3	82.2	82.2	82.2	0.0
J	4,410	33 ²	88	0.9	82.3	82.3	82.4	0.1

¹Feet above confluence with Aberjona River

²The measured top width on the FIRM may differ due to the effects of ineffective flow, the exclusion of small pocket areas due to map scale limitations, or is estimated due to HEC-RAS modeling limitations

³Elevation computed without consideration of backwater effects from Aberjona River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SCHNEIDER BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	30	354 ²	827	0.2	46.7	46.7	46.7	0.0
B	740	26	84	2.1	46.8	46.8	46.9	0.1
C	1,190	28	64	2.8	47.7	47.7	47.7	0.0
D	2,800	21	33	4.7	54.6	54.6	54.6	0.0
E	3,170	73	356	0.4	62.3	62.3	62.3	0.0
F	3,300	116	270	0.8	62.7	62.7	62.7	0.0

¹Feet above confluence with Fowle Brook

²The measured top width on the FIRM may differ due to the effects of ineffective flow, the exclusion of small pocket areas due to map scale limitations, or is estimated due to HEC-RAS modeling limitations

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SHAKERS GLEN BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	55,262	282 / 489 ²	3,900	0.8	76.4	76.4	76.5	0.2
B	61,601	374 / 885 ²	6,280	0.5	77.4	77.4	77.6	0.2
C	68,935	286	1,959	1.6	80.5	80.5	80.7	0.2
D	70,491	382	3,635	0.8	85.4	85.4	85.5	0.1
E	73,859	542	4,166	0.6	86.9	86.9	87.0	0.1
F	79,500	900	7,265	0.4	87.4	87.4	88.1	0.8
G	85,144	587	4,155	0.6	87.5	87.5	88.3	0.7
H	88,089	507	3,080	0.8	87.8	87.8	88.5	0.7
I	91,269	341	2,136	1.1	90.9	90.9	91.2	0.3
J	92,163	428	4,175	0.6	96.5	96.5	96.5	0.0
K	104,583	592	4,547	0.5	96.6	96.6	96.6	0.0
L	109,083	406	2,748	0.9	96.9	96.9	97.0	0.0
M	113,907	481	3,814	0.6	98.7	98.7	99.3	0.6
N	118,426	472	3,279	0.6	99.0	99.0	99.6	0.6
O	125,447	395	2,807	0.8	100.9	100.9	101.1	0.2
P	130,364	382	2,359	0.9	102.1	102.1	102.3	0.2
Q	134,513	154	677	2.4	108.4	108.4	108.4	0.0
R	138,949	83	432	3.4	112.4	112.4	112.5	0.1
S	143,726	365	1,503	0.6	115.7	115.7	116.0	0.3
T	147,469	40	159	5.5	118.2	118.2	118.6	0.4
U	148,981	147	501	1.7	122.2	122.2	122.3	0.1

¹Feet above confluence with Merrimack River

²Width within county/total width

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SHAWSHEEN RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A-B*	*	*	*	*	*	*	*	*
C	1,223	287 ²	1,885	1.0	80.0	80.0	81.0	1.0
D	3,658	881	3,847	0.6	80.2	80.2	81.2	1.0
E	5,520	181	766	2.3	80.6	80.6	81.4	0.8
F	5,726	193	1,142	1.0	82.2	82.2	82.3	0.1
G	6,701	161	896	1.3	82.4	82.4	82.6	0.2
H	8,921	332	1,882	1.4	82.8	82.8	83.2	0.4
I	9,854	283	1,264	1.6	82.9	82.9	83.3	0.4

¹Feet above confluence with Martins Pond

²Width extends beyond county boundary

*No data available

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SKUG RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	650	24	50	4.2	138.1	133.5 ²	133.5	0.0
B	4,250	100	537	0.4	146.9	146.9	146.9	0.0
C	5,837	125	529	0.4	147.0	147.0	147.1	0.1
D	7,272	10	34	6.1	152.5	152.5	153.5	1.0
E	9,578	65	222	0.9	165.6	165.6	165.6	0.0

¹Feet above Commonwealth Avenue

²Elevation computed without consideration of backwater effects from Lake Cochituate

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SNAKE BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,922	50	502	2.5	108.5	108.5	109.4	0.9
B	2,865	50	535	2.4	111.6	111.6	112.4	0.8
C	4,148	80	524	2.4	112.0	112.0	112.9	0.9
D	4,691	40	458	2.8	112.4	112.4	113.4	1.0
E	6,060	50	389	2.6	113.6	113.6	113.8	0.2
F	6,942	40	295	2.1	113.9	113.9	114.2	0.3
G	7,892	60	329	1.9	114.0	114.0	114.7	0.7
H	8,655	40	235	2.6	114.8	114.8	115.0	0.2
I	9,560	40	144	4.3	115.8	115.8	115.9	0.1
J	10,310	40	189	3.3	119.1	119.1	119.1	0.0

¹Feet above confluence with Charles River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SOUTH MEADOW BROOK – PAUL BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,360	22	48	8.5	121.2	116.4 ²	116.4	0.0
B	2,120	30	53	7.7	122.3	122.3	122.3	0.0
C	2,340	25	74	5.5	124.8	124.8	125.2	0.4
D	2,370	51	185	3.5	128.7	128.7	129.4	0.7
E	2,394	240	1,266	0.5	134.2	134.2	134.2	0.0
F	3,745	410	1,335	0.5	134.3	134.3	134.3	0.0
G	4,918	329	759	0.8	134.3	134.3	134.4	0.1
H	5,301	125	361	1.8	135.4	135.4	135.6	0.2
I	5,930	120	437	1.5	135.6	135.6	135.9	0.3
J	7,230	240	565	1.8	136.1	136.1	136.6	0.5
K	8,103	295	283	3.6	137.5	137.5	137.6	0.1
L	8,894	225	942	0.6	137.8	137.8	137.9	0.1
M	9,264	62	411	1.8	143.2	143.2	143.3	0.1
N	10,271	315	1,455	0.7	143.2	143.2	143.4	0.2
O	10,979	200	935	0.9	143.3	143.3	143.4	0.1
P	12,011	180	679	1.4	143.3	143.3	143.5	0.2
Q	13,969	90	264	2.9	145.0	145.0	145.4	0.4
R	14,672	45	284	1.7	149.1	149.1	149.3	0.2
S	14,940	75	471	1.4	149.3	149.3	149.6	0.3
T	17,588	320	1,431	0.4	149.3	149.3	149.7	0.4
U	20,322	250	985	0.6	149.3	149.3	149.7	0.4

¹Feet above confluence with Assabet River

²Elevation computed without consideration of backwater effects from Assabet River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SPENCER BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	21,259	79	138	5.4	149.3	149.3	149.8	0.5
W	21,590	215	1,510	0.3	159.3	159.3	159.3	0.0
X	21,924	110	831	0.6	163.6	163.6	163.7	0.1
Y	23,163	129	613	1.0	163.6	163.6	163.7	0.1
Z	23,956	70	543	1.0	167.2	167.2	167.6	0.4
AA	25,532	178	446	0.8	167.3	167.3	167.7	0.4

¹Feet above confluence with Assabet River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SPENCER BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	612	*	42	3.1	109.2	105.5 ²	105.8	0.3
B	945	*	24	5.4	109.2	108.6 ²	108.9	0.3
C	1,061	*	20	6.5	110.7	110.7	110.7	0.0
D	1,204	*	36	3.6	111.6	111.6	111.7	0.1
E	1,563	*	23	5.6	112.2	112.2	113.1	0.9
F	1,764	*	101	1.9	113.5	113.5	114.0	0.5
G	3,073	*	277	1.1	113.6	113.6	114.3	0.7
H	5,766	65	131	2.3	115.0	115.0	116.0	1.0
I	7,418	31	82	3.0	117.4	117.4	118.3	0.9
J	8,437	18	53	3.1	119.4	119.4	120.3	0.9
K	8,992	15	96	1.4	124.1	124.1	124.1	0.0
L	9,140	8	55	2.4	124.1	124.1	124.1	0.0
M	10,021	4	15	3.9	128.2	128.2	129.1	0.9
N	10,433	8	32	1.9	129.2	129.2	130.2	1.0
O	11,104	8	31	1.9	130.3	130.3	131.1	0.8

¹Feet above confluence with Shawsheen River

²Elevation computed without consideration of backwater effects from Shawsheen River

*Floodway coincident with channel banks

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SPRING BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	8,100	840	6,470	1.4	215.3	215.3	215.8	0.5
B	11,760	190	1,381	6.4	223.7	223.7	223.9	0.2
C	15,230	103	1,551	5.7	237.9	237.9	238.3	0.4
D	16,215	95	1,377	6.4	238.3	238.3	238.8	0.5
E	18,860	80	1,188	7.4	240.2	240.2	240.8	0.6
F	19,470	65	876	10.1	240.6	240.6	241.2	0.6
G	24,200	1,134	7,844	1.1	247.8	247.8	247.9	0.1
H	29,295	745	3,551	2.5	248.8	248.8	249.1	0.3
I	32,000	119	1,153	7.7	250.7	250.7	251.0	0.3
J	34,150	115	1,425	6.2	256.9	256.9	257.5	0.6
K	35,370	880	6,711	1.3	258.1	258.1	258.8	0.7
L	39,480	430	2,596	2.8	259.1	259.1	259.8	0.7
M	43,230	420	3,285	2.2	262.4	262.4	263.3	0.9
N	44,100	261	1,232	5.9	263.1	263.1	264.1	1.0
O	46,940	770	7,733	0.9	274.4	274.4	275.2	0.8
P	48,190	1,485	9,060	0.8	274.4	274.4	275.2	0.8
Q	53,685	560	3,229	2.7	276.3	276.3	276.8	0.5
R	55,070	240	1,767	5.0	277.3	277.3	277.8	0.5
S	58,120	395	2,697	3.3	280.8	280.8	281.6	0.8
T	63,240	255	1,984	3.7	291.2	291.2	291.2	0.0
U	67,680	280	2,912	2.5	294.4	294.4	294.6	0.2

¹Feet above confluence with Nashua River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SQUANNACOOK RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	72,030	700	4,382	1.7	294.7	294.7	295.1	0.4
W	75,030	320	2,784	2.6	298.1	298.1	298.4	0.3
X	76,750	490	4,130	1.8	298.6	298.6	299.0	0.4
Y	79,950	100	847	8.7	299.8	299.8	299.9	0.1
Z	81,460	70	644	10.2	307.7	307.7	307.7	0.0

¹Feet above confluence with Nashua River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SQUANNACOOK RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	7,128	71	542	3.7	71.9	71.9	71.9	0.0
B	7,286	40	169	11.8	78.6	78.6	78.6	0.0
C	7,709	36	192	10.4	83.9	83.9	83.9	0.0
D	8,712	80	863	2.3	91.3	91.3	91.5	0.2
E	9,610	100	1,085	1.8	91.4	91.4	91.8	0.4
F	10,138	79	653	3.1	91.4	91.4	91.9	0.5
G	10,666	29	322	6.2	91.5	91.5	92.3	0.8
H	10,877	29	267	7.5	92.0	92.0	92.9	0.9
I	11,194	59	678	2.9	93.1	93.1	94.0	0.9
J	11,510	50	600	3.3	96.7	96.7	96.7	0.0
K	11,827	50	575	3.3	96.7	96.7	96.7	0.0
L	12,197	50	476	3.5	96.7	96.7	96.8	0.1
M	12,461	50	550	4.2	96.8	96.8	97.0	0.2
N	12,619	33	339	4.6	96.8	96.8	97.4	0.6
O	12,989	473	3,550	0.4	96.9	96.9	97.9	1.0
P	13,306	380	2,612	0.8	96.9	96.9	97.9	1.0
Q	13,464	89	717	2.2	98.0	98.0	98.3	0.3
R	14,256	130	686	2.3	98.3	98.3	99.1	0.8
S	16,104	465	1,940	0.8	99.5	99.5	100.5	1.0
T	17,213	85	506	3.1	101.2	101.2	102.0	0.8
U	17,424	200	2,024	0.8	108.6	108.6	108.6	0.0

¹Feet above confluence with Charles River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: STONY BROOK 1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	17,899	28	235	6.6	108.7	108.7	108.9	0.2
W	18,058	40	272	4.1	108.8	108.8	109.6	0.8
X	18,216	111	445	2.5	108.9	108.9	109.8	0.9
Y	18,427	23	194	5.8	112.8	112.8	112.9	0.1
Z	19,061	202	1,138	1.0	113.0	113.0	114.0	1.0
AA	19,325	121	720	1.6	113.0	113.0	114.0	1.0
AB	20,064	56	204	5.5	117.0	117.0	117.7	0.7
AC	20,803	68	393	2.9	119.8	119.8	120.8	1.0
AD	21,067	200	1,440	0.8	123.0	123.0	123.1	0.1
AE	21,648	218	1,380	0.8	123.1	123.1	123.2	0.1
AF	22,598	220	868	1.3	123.2	123.2	123.4	0.2
AG	23,179	58	300	3.8	123.4	123.4	124.1	0.7
AH	23,390	220	862	1.3	123.5	123.5	124.5	1.0
AI	23,602	50	331	2.6	127.3	127.3	127.4	0.1
AJ	24,024	110	340	2.5	128.4	128.4	129.2	0.8
AK	24,499	90	235	3.6	132.8	132.8	133.6	0.8
AL	24,816	132	290	2.9	136.5	136.5	136.5	0.0
AM	24,974	110	982	0.9	146.7	146.7	147.0	0.3
AN	25,238	20	222	3.8	146.7	146.7	147.1	0.4

¹Feet above confluence with Charles River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: STONY BROOK 1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AO	805	25	78	2.1	169.6	169.6	170.6	1.0
AP	1,065	20	46	3.6	175.6	175.6	175.6	0.0
AQ	1,970	20	18	5.4	180.3	180.3	180.3	0.0
AR	2,715	39	36	2.7	191.0	191.0	191.0	0.0
AS	3,035	21	45	2.1	201.9	201.9	202.2	0.3
AT	3,665	12	36	2.6	206.5	206.5	206.7	0.2
AU	3,865	18	41	2.3	207.0	207.0	207.2	0.2
AV	4,650	24	37	2.5	212.7	212.7	212.7	0.0
AW	4,815	26	87	1.1	215.8	215.8	215.8	0.0
AX	5,445	14	45	2.1	216.5	216.5	216.5	0.0
AY	5,785	16	30	2.6	217.1	217.1	217.1	0.0
AZ	6,205	23	57	1.4	217.7	217.7	217.7	0.0
BA	6,835	20	48	1.7	218.6	218.6	219.3	0.7
BB	7,695	10	27	2.9	227.8	227.8	228.8	1.0
BC	7,895	6	14	5.6	229.4	229.4	230.0	0.6
BD	8,275	18	15	5.2	235.7	235.7	235.7	0.0

¹Feet above limit of detailed study, approximately 960 feet below Tower Road

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: STONY BROOK 1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A-F*	*	*	*	*	*	*	*	*
G	1,779	86	1,060	1.4	103.2	103.2	103.2	0.0
H	2,554	115	1,170	1.9	103.2	103.2	103.3	0.1
I	3,754	260	1,934	1.2	103.4	103.4	103.4	0.0
J	3,784	261	1,552	0.9	103.4	103.4	103.4	0.0
K	4,284	128	735	2.0	103.4	103.4	103.6	0.2
L	5,434	85	216	6.9	103.6	103.6	103.9	0.3
M	6,137	55	524	2.8	104.5	104.5	105.3	0.8
N	6,237	51	520	2.7	104.5	104.5	105.3	0.8
O	6,512	51	467	3.2	104.6	104.6	105.4	0.8
P	6,662	76	632	2.4	104.8	104.8	105.5	0.7
Q	7,112	74	415	4.0	105.1	105.1	105.8	0.7
R	8,562	34	270	5.5	107.8	107.8	108.7	0.9
S	8,662	29	246	6.1	108.0	108.0	109.0	1.0
T	1,372	**	297	4.4	143.2	143.2	143.5	0.3
U	1,423	661	2,405	0.5	143.7	143.7	143.9	0.2
V	2,698	87	284	4.6	143.7	143.7	143.9	0.2
W	2,797	**	206	6.4	145.3	145.3	145.3	0.0
X	2,850	**	150	8.8	153.6	153.6	153.6	0.0
Y	5,147	260	1,362	1.0	155.2	155.2	155.3	0.1
Z	6,827	110	738	1.8	159.5	159.5	160.1	0.6

¹Feet above confluence with Merrimack River

*No data available

**Floodway coincident with channel banks

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: STONY BROOK 2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	6,877	160	1,328	1.0	159.6	159.6	160.2	0.6
AB	9,062	130	931	1.3	159.8	159.8	160.4	0.6
AC	12,465	*	139	8.6	164.2	164.2	164.2	0.0
AD	12,510	*	154	7.8	165.4	165.4	165.4	0.0
AE	12,545	100	790	1.5	166.6	166.6	166.6	0.0
AF	14,928	*	198	4.8	167.7	167.7	167.7	0.0
AG	14,978	730	4,730	0.2	168.2	168.2	168.2	0.0
AH	18,202	276	1,675	0.6	168.2	168.2	168.2	0.0
AI	23,552	555	2,616	0.4	168.4	168.4	168.4	0.0
AJ	25,973	*	262	3.6	169.9	169.9	169.9	0.0
AK	26,022	660	3,094	0.3	170.2	170.2	170.2	0.0
AL	26,822	*	84	11.3	185.4	185.4	185.4	0.0
AM	26,870	209	3,678	0.3	188.0	188.0	188.0	0.0
AN	28,059	*	688	1.2	188.0	188.0	189.0	1.0
AO	28,105	*	626	1.3	190.1	190.1	190.4	0.3
AP	28,155	*	1,054	0.8	190.1	190.1	190.4	0.3
AQ	29,920	*	322	2.5	190.1	190.1	190.4	0.3
AR	29,970	396	2,553	0.3	190.2	190.2	190.5	0.3
AS	32,401	*	304	2.3	190.2	190.2	190.7	0.5
AT	32,450	530	2,162	0.3	190.3	190.3	190.8	0.5
AU	33,350	300	1,044	0.7	190.4	190.4	190.9	0.5

¹Feet above limit of detailed study, approximately 2,750 feet below Brookside Road

*No data available

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: STONY BROOK 2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AV	34,565	*	80	8.9	190.5	190.5	191.0	0.5
AW	34,661	*	168	4.2	192.3	192.3	192.4	0.1
AX	35,295	*	43	16.6	195.6	195.6	195.6	0.0
AY	35,405	*	260	2.7	202.9	202.9	202.9	0.0
AZ	35,520	*	186	3.8	202.9	202.9	202.9	0.0
BA	35,575	*	107	6.7	206.5	206.5	206.5	0.0
BB	35,660	*	406	1.7	207.4	207.4	207.4	0.0

¹Feet above limit of detailed study, approximately 2,750 feet below Brookside Road

*No data available

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: STONY BROOK 2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	158	299	1,259	0.5	85.6	83.6 ²	84.2	0.6
B	3,268	40	364	1.6	87.2	87.2	87.2	0.0
C	4,340	20	186	3.2	87.2	87.2	87.8	0.6
D	5,201	45	362	1.6	87.2	87.2	88.2	1.0
E	5,998	160	887	0.7	87.3	87.3	88.3	1.0
F	6,980	40	275	2.2	87.5	87.5	88.5	1.0
G	7,931	30	367	1.6	94.7	94.7	94.7	0.0
H	8,216	40	463	1.3	94.7	94.7	94.7	0.0
I	9,087	30	279	2.1	94.7	94.7	94.9	0.2
J	9,842	30	235	2.5	94.8	94.8	95.2	0.4
K	10,497	35	283	2.1	94.8	94.8	95.6	0.8

¹Feet above confluence with Shawsheen River

²Elevation computed without consideration of backwater effects from Shawsheen River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: STRONG WATER BROOK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,177	213	2,195	2.3	120.3	117.2 ²	118.0	0.8
B	2,098	446	3,147	2.1	120.3	117.3 ²	118.2	0.9
C	3,051	210	2,275	2.1	120.3	118.0 ²	118.9	0.9
D	4,713	359	2,689	2.3	120.3	118.3 ²	119.1	0.8
E	5,138	175	2,273	2.1	120.3	118.6 ²	119.6	1.0
F	5,676	141	1,813	2.5	120.3	118.9 ²	119.8	0.9
G	5,748	152	1,799	2.4	120.3	119.4 ²	119.8	0.4
H	5,972	269	3,145	1.8	120.3	119.5 ²	119.9	0.4
I	7,809	704	5,846	1.3	120.3	119.6 ²	120.0	0.4
J	9,222	295	3,264	1.7	120.3	120.0 ²	120.4	0.4
K	11,819	818	8,584	0.8	120.3	120.1 ²	120.5	0.4
L	13,703	150	2,065	2.4	120.3	120.2 ²	120.6	0.4
M	16,014	351	4,899	1.0	120.3	120.2 ²	120.7	0.5
N	19,849	845	10,997	0.5	120.3	120.3	120.8	0.5
O	23,096	954	8,688	0.9	120.3	120.3	120.8	0.5
P	25,844	225	3,508	1.3	120.5	120.5	121.1	0.6
Q	27,123	611	6,893	1.0	120.5	120.5	121.2	0.7
R	27,725	462	5,920	1.0	120.6	120.6	121.2	0.6
S	32,062	1,265	12,037	0.7	120.6	120.6	121.2	0.6
T	33,320	569	6,418	1.0	120.6	120.6	121.2	0.6
U	37,473	1,668	16,710	0.5	120.7	120.7	121.3	0.6

¹Feet above confluence with Concord River

²Elevation computed without consideration of backwater effects from Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SUDBURY RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
V	39,160	565	6,735	0.9	120.8	120.8	121.4	0.6
W	42,348	1,150	12,427	0.7	120.8	120.8	121.4	0.6
X	49,076	3,170	32,643	0.3	120.8	120.8	121.4	0.6
Y	54,637	1,975	15,659	0.4	120.9	120.9	121.5	0.6
Z	59,342	1,170	12,283	0.6	120.9	120.9	121.5	0.6
AA	60,395	1,043	8,829	0.8	121.0	121.0	121.6	0.6
AB	60,930	1,340	10,779	0.8	121.1	121.1	121.6	0.5
AC	62,853	820	5,551	1.4	121.1	121.1	121.7	0.6
AD	63,535	691	7,271	0.8	121.1	121.1	121.7	0.6
AE	65,738	569	6,358	0.7	121.2	121.2	121.8	0.6
AF	67,733	622	6,403	0.8	121.2	121.2	121.8	0.6
AG	70,385	1,121	10,142	0.4	121.3	121.3	121.8	0.5
AH	75,234	1,219	10,257	0.6	121.3	121.3	121.9	0.6
AI	79,122	773	5,964	1.1	121.5	121.5	122.1	0.6
AJ	80,826	146	1,455	2.3	121.9	121.9	122.4	0.5
AK	81,111	155	1,730	2.1	122.1	122.1	122.7	0.6
AL	81,765	119	1,194	3.1	122.8	122.8	122.8	0.0
AM	83,697	218	1,293	4.1	123.4	123.4	123.5	0.1
AN	85,808	175	1,381	3.3	124.3	124.3	124.5	0.2
AO	86,358	87	912	3.7	124.6	124.6	124.8	0.2
AP	86,462	103	1,035	3.5	124.7	124.7	124.9	0.2

¹Feet above confluence with Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SUDBURY RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AQ	87,743	62	736	4.1	125.9	125.9	126.1	0.2
AR	89,346	102	823	3.7	126.5	126.5	126.7	0.2
AS	90,345	216	615	4.9	128.0	128.0	128.1	0.1
AT	90,406	320	3,271	0.9	147.4	147.4	147.6	0.2
AU	92,108	332	2,473	1.2	147.4	147.4	147.6	0.2
AV	94,726	261	1,886	1.5	147.6	147.6	147.8	0.2
AW	96,475	180	1,146	2.5	148.3	148.3	148.4	0.1
AX	97,900	108	796	3.7	149.2	149.2	149.4	0.2
AY	98,524	106	800	3.5	149.7	149.7	150.2	0.5
AZ	98,645	863	7,989	0.4	150.1	150.1	150.5	0.4
BA	100,142	162	837	3.7	150.1	150.1	150.5	0.4
BB	102,597	175	1,041	3.7	151.8	151.8	152.0	0.2
BC	104,179	103	758	3.7	152.6	152.6	153.0	0.4
BD	105,810	294	1,827	2.7	153.5	153.5	153.9	0.4
BE	107,640	99	732	4.1	154.0	154.0	154.4	0.4
BF	107,804	95	788	3.7	154.7	154.7	155.0	0.3
BG	108,424	74	698	4.0	155.4	155.4	155.7	0.3
BH	110,069	73	734	4.0	156.3	156.3	156.9	0.6
BI	110,932	71	700	4.1	157.1	157.1	157.6	0.5
BJ	112,362	127	1,113	3.6	157.8	157.8	158.4	0.6
BK	112,512	90	950	2.9	158.1	158.1	158.7	0.6

¹Feet above confluence with Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SUDBURY RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BL	113,785	477	3,403	1.6	158.4	158.4	159.0	0.6
BM	114,761	165	1,442	1.8	158.9	158.9	159.7	0.8
BN	114,939	619	5,702	0.5	164.4	164.4	164.4	0.0
BO	116,838	413	4,057	0.6	164.4	164.4	164.4	0.0
BP	119,330	314	2,419	1.5	164.4	164.4	164.4	0.0
BQ	120,465	1,286	19,713	0.2	174.5	174.5	174.5	0.0
BR	123,296	913	12,364	0.3	174.5	174.5	174.5	0.0
BS	124,308	117	1,974	2.0	174.7	174.7	174.7	0.0
BT	126,822	254	2,835	1.2	174.8	174.8	174.8	0.0
BU	128,754	206	2,073	1.7	174.9	174.9	174.9	0.0
BV	128,912	134	1,248	2.8	175.7	175.7	175.7	0.0
BW	129,833	98	813	4.5	176.6	176.6	176.6	0.0
BX	130,623	116	1,092	3.5	177.2	177.2	177.2	0.0
BY	131,527	124	833	3.9	178.0	178.0	178.2	0.2
BZ	131,607	148	1,019	3.5	179.5	179.5	179.7	0.2
CA	132,056	110	810	4.3	180.6	180.6	181.5	0.9
CB	132,232	74	864	4.3	182.4	182.4	183.0	0.6
CC	132,326	95	962	4.1	182.8	182.8	183.4	0.6
CD	133,984	271	2,670	1.9	183.2	183.2	184.0	0.8
CE	134,733	191	1,545	3.1	184.3	184.3	185.0	0.7
CF	135,999	228	1,040	3.0	188.5	188.5	188.9	0.4

¹Feet above confluence with Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SUDBURY RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
CG	136,040	301	2,354	1.2	192.4	192.4	192.5	0.1
CH	138,080	155	993	3.3	192.6	192.6	192.7	0.1
CI	139,099	123	582	7.3	195.3	195.3	195.5	0.2
CJ	139,392	227	1,058	3.3	196.7	196.7	197.5	0.8
CK	139,852	156	768	5.2	200.5	200.5	201.3	0.8
CL	139,876	175	1,038	3.1	200.9	200.9	201.5	0.6
CM	141,397	200	1,663	2.5	201.5	201.5	202.0	0.5
CN	143,723	168	1,012	4.6	202.6	202.6	203.2	0.6
CO	145,187	71	327	7.5	206.3	206.3	206.3	0.0
CP	146,693	186	1,203	2.7	208.4	208.4	208.8	0.4
CQ	147,488	76	712	3.2	210.1	210.1	210.4	0.3
CR	148,022	165	1,712	1.6	224.2	224.2	224.2	0.0
CS	149,553	110	721	3.9	224.7	224.7	224.7	0.0
CT	151,386	40	326	6.9	229.0	229.0	229.1	0.1
CU	152,854	169	814	4.7	233.6	233.6	234.2	0.6
CV	153,661	239	944	3.4	235.5	235.5	236.0	0.5
CW	154,029	34	282	7.7	244.9	244.9	244.9	0.0
CX	154,060	73	482	4.8	245.5	245.5	245.7	0.2
CY	154,651	331	2,075	1.0	255.6	255.6	255.6	0.0
CZ	155,838	45	254	8.4	255.7	255.7	255.8	0.1
DA	157,700	146	1,028	2.8	259.0	259.0	259.9	0.9

¹Feet above confluence with Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SUDBURY RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
DB	159,340	75	269	12.3	262.3	262.3	262.4	0.1
DC	160,957	301	1,738	2.0	264.7	264.7	265.4	0.7
DD	163,496	119	638	5.2	265.9	265.9	266.6	0.7
DE	164,557	85	383	6.3	276.4	276.4	277.0	0.6
DF	167,246	375	2,301	1.4	277.3	277.3	278.3	1.0

¹Feet above confluence with Concord River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SUDBURY RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	845	85	876	0.3	80.8	76.4 ²	76.7	0.3
B	3,538	27	45	6.7	85.1	77.9 ²	77.9	0.0
C	3,643	62	177	1.7	85.1	79.8 ²	79.8	0.0
D	5,702	66	376	0.6	85.1	80.4 ²	81.1	0.7
E	6,917	75	250	1.0	85.1	81.0 ²	81.6	0.6

¹Feet above confluence with Shawsheen River

²Elevation computed without consideration of backwater effects from Shawsheen River

TABLE 23	FEDERAL EMERGENCY MANAGEMENT AGENCY MIDDLESEX COUNTY, MA (ALL JURISDICTIONS)	FLOODWAY DATA
		FLOODING SOURCE: SUTTON BROOK