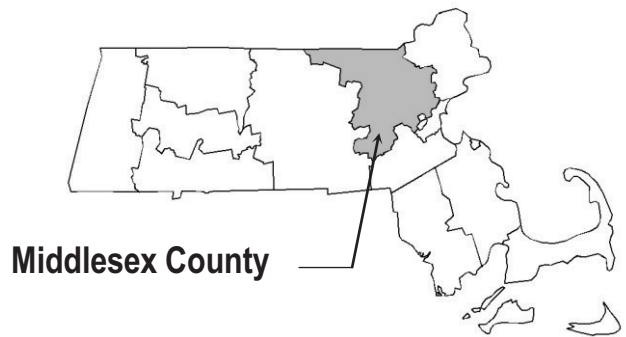


FLOOD INSURANCE STUDY



VOLUME 2 OF 8

MIDDLESEX COUNTY, MASSACHUSETTS (ALL JURISDICTIONS)



COMMUNITY NAME

ACTON, TOWN OF
ARLINGTON, TOWN OF
ASHBY, TOWN OF
ASHLAND, TOWN OF
AYER, TOWN OF
BEDFORD, TOWN OF
BELMONT, TOWN OF
BILLERICA, TOWN OF
BOXBOROUGH, TOWN OF
BURLINGTON, TOWN OF
CAMBRIDGE, CITY OF
CARLISLE, TOWN OF
CHELMSFORD, TOWN OF
CONCORD, TOWN OF
DRACUT, TOWN OF
DUNSTABLE, TOWN OF
EVERETT, CITY OF
FRAMINGHAM, TOWN OF
GROTON, TOWN OF
HOLLISTON, TOWN OF
HOPKINTON, TOWN OF
HUDSON, TOWN OF
LEXINGTON, TOWN OF
LINCOLN, TOWN OF
LITTLETON, TOWN OF
LOWELL, CITY OF
MALDEN, CITY OF
MARLBOROUGH, CITY OF
MAYNARD, TOWN OF
MEDFORD, CITY OF

COMMUNITY NUMBER

250176
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COMMUNITY NAME

MELROSE, CITY OF
NATICK, TOWN OF
NEWTON, CITY OF
NORTH READING, TOWN OF
PEPPERELL, TOWN OF
READING, TOWN OF
SHERBORN, TOWN OF
SHIRLEY, TOWN OF
SOMERVILLE, CITY OF
STONEHAM, TOWN OF
STOW, TOWN OF
SUDBURY, TOWN OF
TEWKSBURY, TOWN OF
TOWNSEND, TOWN OF
TYNGSBOROUGH, TOWN OF
WAKEFIELD, TOWN OF
WALTHAM, CITY OF
WATERTOWN, TOWN OF
WAYLAND, TOWN OF
WESTFORD, TOWN OF
WESTON, TOWN OF
WILMINGTON, TOWN OF
WINCHESTER, TOWN OF
WOBURN, CITY OF

COMMUNITY NUMBER

250206
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EFFECTIVE:
JUNE 4, 2010



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
25017CV002A

NOTICE TO
FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all data available within the repository. It is advisable to contact the community repository for any additional data.

Part or all of this FIS may be revised and republished at any time. In addition, part of this FIS may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository to obtain the most current FIS components.

Initial Countywide FIS Effective Date: June 4, 2010

Revised Countywide FIS Date:

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Flood Insurance Rate Map

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Aberjona River | | | | | | | | |
| A | 30 | 1,694 | 73,950 | 0.0 | 7.2 | 7.2 | 7.6 | 0.4 |
| B | 2,770 | 329* | 10,014 | 0.3 | 7.2 | 7.2 | 7.6 | 0.4 |
| C | 2,950 | 533* | 6,061 | 0.5 | 12.6 | 12.6 | 12.7 | 0.1 |
| D | 9,560 | 537* | 537 | 3.7 | 13.6 | 13.6 | 13.9 | 0.3 |
| E | 10,260 | 51* | 432 | 4.9 | 14.2 | 14.2 | 14.5 | 0.3 |
| F | 10,340 | 43* | 405 | 5.0 | 14.9 | 14.9 | 15.2 | 0.3 |
| G | 10,860 | 120 | 829 | 2.4 | 16.4 | 16.4 | 16.8 | 0.4 |
| H | 11,880 | 214 | 969 | 2.0 | 17.3 | 17.3 | 17.8 | 0.5 |
| I | 12,100 | 112 | 825 | 2.4 | 17.5 | 17.5 | 18.4 | 0.9 |
| J | 13,610 | 88 | 578 | 3.4 | 18.5 | 18.5 | 19.0 | 0.5 |
| K | 13,850 | 79 | 752 | 2.6 | 19.2 | 19.2 | 19.7 | 0.5 |
| L | 13,980 | 103* | 990 | 2.1 | 19.8 | 19.8 | 20.4 | 0.6 |
| M | 14,240 | 203* | 1,537 | 1.3 | 19.9 | 19.9 | 20.5 | 0.6 |
| N | 14,460 | 75* | 587 | 3.5 | 19.9 | 19.9 | 20.4 | 0.5 |
| O | 15,540 | 383* | 2,373 | 0.8 | 22.5 | 22.5 | 23.4 | 0.9 |
| P | 15,620 | 144* | 1,028 | 2.0 | 22.5 | 22.5 | 23.5 | 1.0 |
| Q | 15,800 | 621 | 2,603 | 0.5 | 22.7 | 22.7 | 23.6 | 0.9 |
| R | 15,900 | 655 | 2,642 | 0.5 | 22.7 | 22.7 | 23.6 | 0.9 |
| S | 17,590 | 49* | 326 | 4.1 | 23.5 | 23.5 | 23.7 | 0.2 |
| T | 19,460 | 123* | 922 | 1.1 | 24.9 | 24.9 | 25.6 | 0.7 |
| U | 21,070 | 284 | 786 | 1.8 | 28.5 | 28.5 | 28.5 | 0.0 |
| V | 21,250 | 458 | 2,676 | 0.5 | 28.6 | 28.6 | 29.4 | 0.8 |
| W | 21,270 | 496 | 2,887 | 0.5 | 28.6 | 28.6 | 29.4 | 0.8 |
| X | 22,910 | 557 | 2,960 | 0.7 | 28.6 | 28.6 | 29.4 | 0.8 |
| Y | 23,770 | 552 | 1,323 | 0.9 | 29.1 | 29.1 | 29.4 | 0.3 |
| Z | 25,100 | 578 | 1,529 | 0.8 | 29.5 | 29.5 | 29.7 | 0.2 |

¹ Feet above outlet of Lower Mystic Lake

* The 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 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ABERJONA RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|----------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Aberjona River (continued) | | | | | | | | |
| AA | 27,310 | 95* | 382 | 2.4 | 36.4 | 36.4 | 37.2 | 0.8 |
| AB | 27,760 | 37 | 227 | 4.0 | 37.1 | 37.1 | 37.8 | 0.7 |
| AC | 30,130 | 46 | 209 | 4.2 | 39.1 | 39.1 | 39.5 | 0.4 |
| AD | 30,360 | 76 | 462 | 3.0 | 40.6 | 40.6 | 41.2 | 0.6 |
| AE | 31,380 | 347* | 1,606 | 0.9 | 43.9 | 43.9 | 44.4 | 0.5 |
| AF | 33,290 | 40* | 160 | 4.7 | 45.3 | 45.3 | 45.5 | 0.2 |
| AG | 37,080 | 39* | 173 | 3.9 | 48.3 | 48.3 | 48.5 | 0.2 |
| AH | 37,810 | 577* | 1,722 | 0.4 | 50.3 | 50.3 | 50.5 | 0.2 |
| AI | 38,060 | 374* | 631 | 2.1 | 50.6 | 50.6 | 50.7 | 0.1 |
| AJ | 38,360 | 83* | 380 | 1.7 | 51.3 | 51.3 | 51.4 | 0.1 |
| AK | 38,860 | 49* | 276 | 2.1 | 52.9 | 52.9 | 53.2 | 0.3 |
| AL | 42,150 | 18 | 43 | 3.4 | 54.8 | 54.8 | 54.8 | 0.0 |
| AM | 43,790 | 20* | 80 | 3.2 | 58.8 | 58.8 | 58.9 | 0.1 |
| AN | 43,990 | 34* | 186 | 1.4 | 61.2 | 61.2 | 61.2 | 0.0 |
| AO | 44,890 | 25* | 122 | 1.7 | 62.8 | 62.8 | 62.8 | 0.0 |
| AP | 45,140 | 43* | 196 | 0.5 | 64.3 | 64.3 | 64.3 | 0.0 |
| AQ | 45,860 | 41 | 220 | 0.6 | 65.1 | 65.1 | 65.1 | 0.0 |
| AR | 46,580 | 39* | 192 | 0.6 | 65.2 | 65.2 | 65.2 | 0.0 |
| AS | 46,940 | 20* | 74 | 1.6 | 65.3 | 65.3 | 65.4 | 0.1 |
| AT | 50,340 | 15 | 28 | 3.8 | 78.8 | 78.8 | 78.8 | 0.0 |

¹ Feet above outlet of Lower Mystic Lake

* The 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 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ABERJONA RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|------------------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Aberjona River North Spur | | | | | | | | |
| A | 130 ¹ | 33 | 148 | 0.9 | 64.3 | 64.3 | 64.3 | 0.0 |
| B | 2,260 ¹ | 68* | 324 | 0.6 | 68.1 | 68.1 | 68.1 | 0.0 |
| C | 2,860 ¹ | 152* | 203 | 0.9 | 68.2 | 68.2 | 68.2 | 0.0 |
| D | 4,400 ¹ | 124* | 713 | 0.5 | 75.8 | 75.8 | 75.8 | 0.0 |
| E | 6,500 ¹ | 18 | 15 | 2.1 | 78.3 | 78.3 | 78.3 | 0.0 |
| F | 7,880 ¹ | 47* | 68 | 1.1 | 81.5 | 81.5 | 81.5 | 0.0 |
| G | 9,410 ¹ | 18 | 27 | 0.5 | 83.0 | 83.0 | 83.0 | 0.0 |
| Alewife Brook (Little River) | | | | | | | | |
| A | 100 ² | 77* | 427 | 1.1 | 6.7 | 3.9 ⁴ | 4.1 | 0.2 |
| B | 250 ² | 101* | 399 | 1.2 | 6.7 | 3.9 ⁴ | 4.1 | 0.2 |
| C | 2,960 ² | 74 | 381 | 1.2 | 6.7 | 4.1 ⁴ | 4.3 | 0.2 |
| D | 3,970 ² | 56* | 372 | 1.5 | 6.7 | 4.5 ⁴ | 4.7 | 0.2 |
| E | 5,220 ² | 84* | 327 | 1.2 | 6.7 | 4.6 ⁴ | 4.9 | 0.3 |
| F | 7,330 ² | 500* | 1,135 | 0.3 | 6.8 | 4.9 ⁴ | 5.3 | 0.4 |
| G | 7,770 ² | 1,556* | 2,294 | 0.2 | 6.8 | 5.0 ⁴ | 5.3 | 0.3 |
| H | 8,010 ² | 1,675* | 3,477 | 0.1 | 6.8 | 5.0 ⁴ | 5.4 | 0.4 |
| I | 11,625 ² | 70 | 569 | 0.8 | 7.4 | 6.4 ⁴ | 7.2 | 0.8 |
| Angelica Brook | | | | | | | | |
| A | 500 ³ | 16 | 23 | 6.9 | 190.1 | 190.1 | 190.1 | 0.0 |
| B | 1,360 ³ | 8 | 25 | 6.4 | 207.1 | 207.1 | 207.9 | 0.8 |
| C | 2,770 ³ | 100 | 525 | 0.3 | 223.4 | 223.4 | 223.4 | 0.0 |

¹ Feet above confluence with Aberjona River

³ Feet above confluence with Reservoir No. 3

² Feet above confluence with Mystic River

⁴ Elevation computed without consideration of backwater effects from Mystic River

* The 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 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**ABERJONA RIVER NORTH SPUR – ALEWIFE
BROOK (LITTLE RIVER) – ANGELICA BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|----------------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Assabet Branch No. 3 | | | | | | | | |
| A | 0 | 61 | 285 | 0.4 | 199.6 | 197.2 ² | 198.2 | 1.0 |
| B | 26 | 53 | 205 | 0.5 | 199.6 | 197.2 ² | 198.2 | 1.0 |
| C | 243 | 53 | 136 | 0.7 | 200.8 | 197.2 ² | 198.2 | 1.0 |
| D | 502 | 8 | 26 | 3.9 | 200.8 | 197.2 ² | 198.2 | 1.0 |
| E | 1,225 | 15 | 44 | 2.3 | 200.8 | 200.4 ² | 200.7 | 0.3 |
| F | 1,368 | 13 | 21 | 4.7 | 200.9 | 200.6 ² | 200.9 | 0.3 |
| G | 1,526 | 35 | 80 | 1.2 | 201.5 | 201.5 | 201.5 | 0.0 |
| H | 2,165 | 34 | 80 | 1.1 | 201.6 | 201.6 | 201.9 | 0.3 |
| I | 2,313 | 10 | 19 | 4.4 | 201.8 | 201.8 | 201.8 | 0.0 |
| J | 2,476 | 15 | 40 | 2.1 | 202.7 | 202.7 | 202.7 | 0.0 |
| K | 2,524 | 15 | 41 | 2.0 | 202.7 | 202.7 | 202.8 | 0.1 |
| L | 2,904 | 11 | 15 | 5.6 | 203.3 | 203.3 | 203.3 | 0.0 |
| M | 3,036 | 26 | 44 | 1.9 | 203.9 | 203.9 | 204.2 | 0.3 |
| Assabet Branch No. 4 | | | | | | | | |
| A | 2,376 | 12 | 26 | 4.0 | 192.3 | 192.3 | 193.3 | 1.0 |
| B | 3,796 | 20 | 54 | 1.9 | 197.1 | 197.1 | 197.6 | 0.5 |
| C | 4,108 | 8 | 14 | 7.5 | 202.7 | 202.7 | 203.2 | 0.5 |
| D | 4,224 | 20 | 35 | 2.4 | 205.8 | 205.8 | 206.5 | 0.7 |
| E | 4,345 | 14 | 27 | 3.8 | 206.6 | 206.6 | 207.6 | 1.0 |

¹ Feet above confluence with Assabet River

² Elevation computed without consideration of coincident flow with Assabet River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ASSABET BRANCH NO. 3 – ASSABET BRANCH NO. 4

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Assabet River | | | | | | | | |
| A | 1,800 | 320 | 2,500 | 1.6 | 119.7 | 118.4 ² | 119.3 | 0.9 |
| B | 3,480 | 500 | 2,480 | 1.7 | 119.7 | 118.6 ² | 119.6 | 1.0 |
| C | 5,005 | 140 | 1,420 | 2.9 | 119.7 | 118.9 ² | 119.9 | 1.0 |
| D | 6,415 | 780 | 3,830 | 1.1 | 119.7 | 119.4 ² | 120.4 | 1.0 |
| E | 8,765 | 220 | 1,630 | 0.7 | 120.3 | 120.3 | 121.3 | 1.0 |
| F | 10,735 | 1,050 | 6,230 | 0.7 | 120.3 | 120.3 | 121.3 | 1.0 |
| G | 12,100 | 120 | 1,080 | 3.8 | 120.6 | 120.6 | 121.5 | 0.9 |
| H | 12,500 | 80 | 1,010 | 4.1 | 120.6 | 120.6 | 121.5 | 0.9 |
| I | 12,757 | 330 | 3,200 | 1.3 | 121.2 | 121.2 | 122.0 | 0.8 |
| J | 13,841 | 380 | 3,300 | 1.2 | 121.3 | 121.3 | 122.1 | 0.8 |
| K | 14,816 | 260 | 2,600 | 1.5 | 121.4 | 121.4 | 122.2 | 0.8 |
| L | 15,516 | 130 | 1,270 | 3.2 | 121.4 | 121.4 | 122.3 | 0.9 |
| M | 15,916 | 60 | 600 | 6.7 | 121.4 | 121.4 | 122.3 | 0.9 |
| N | 16,055 | 110 | 1,260 | 3.2 | 122.4 | 122.4 | 122.9 | 0.5 |
| O | 16,130 | 70 | 590 | 6.7 | 122.7 | 122.7 | 122.9 | 0.2 |
| P | 16,390 | 60 | 710 | 5.6 | 122.7 | 122.7 | 123.6 | 0.9 |
| Q | 16,521 | 110 | 1,240 | 3.2 | 123.8 | 123.8 | 124.6 | 0.8 |
| R | 16,876 | 190 | 2,270 | 1.8 | 124.0 | 124.0 | 124.8 | 0.8 |
| S | 17,091 | 80 | 1,160 | 3.5 | 124.0 | 124.0 | 124.8 | 0.8 |
| T | 17,376 | 290 | 3,570 | 1.1 | 124.2 | 124.2 | 125.1 | 0.9 |
| U | 18,111 | 340 | 3,280 | 1.2 | 124.3 | 124.3 | 125.1 | 0.8 |
| V | 18,371 | 60 | 670 | 6.0 | 124.3 | 124.3 | 125.1 | 0.8 |
| W | 18,498 | 220 | 2,010 | 2.0 | 125.0 | 125.0 | 125.6 | 0.6 |
| X | 20,198 | 360 | 2,970 | 1.3 | 125.4 | 125.4 | 125.9 | 0.5 |
| Y | 21,753 | 410 | 3,520 | 1.1 | 125.6 | 125.6 | 126.1 | 0.5 |
| Z | 23,373 | 360 | 2,410 | 1.7 | 125.8 | 125.8 | 126.4 | 0.6 |

¹ Feet above confluence with Concord River

² Elevation computed without consideration of backwater effects from Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ASSABET RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Assabet River (continued) | | | | | | | | |
| AA | 23,653 | 60 | 590 | 6.7 | 125.8 | 125.8 | 126.3 | 0.5 |
| AB | 23,761 | 60 | 530 | 7.5 | 126.5 | 126.5 | 126.7 | 0.2 |
| AC | 23,871 | 60 | 620 | 6.5 | 126.6 | 126.6 | 127.2 | 0.6 |
| AD | 24,090 | 130 | 490 | 8.2 | 128.9 | 128.9 | 129.2 | 0.3 |
| AE | 24,151 | 470 | 5,340 | 0.6 | 130.5 | 130.5 | 131.3 | 0.8 |
| AF | 24,801 | 350 | 3,210 | 1.0 | 130.5 | 130.5 | 131.3 | 0.8 |
| AG | 27,251 | 280 | 2,490 | 1.3 | 130.7 | 130.7 | 131.5 | 0.8 |
| AH | 28,351 | 410 | 2,940 | 1.1 | 130.9 | 130.9 | 131.6 | 0.7 |
| AI | 30,101 | 360 | 1,820 | 1.8 | 131.2 | 131.2 | 131.8 | 0.6 |
| AJ | 31,521 | 70 | 610 | 5.5 | 132.0 | 132.0 | 132.5 | 0.5 |
| AK | 31,661 | 70 | 740 | 4.5 | 132.8 | 132.8 | 133.1 | 0.3 |
| AL | 32,411 | 980 | 5,860 | 0.6 | 133.1 | 133.1 | 133.6 | 0.5 |
| AM | 32,816 | 120 | 530 | 5.9 | 133.2 | 133.2 | 133.8 | 0.6 |
| AN | 32,896 | 80 | 410 | 7.6 | 133.2 | 133.2 | 133.8 | 0.6 |
| AO | 32,991 | 80 | 290 | 10.8 | 134.1 | 134.1 | 134.1 | 0.0 |
| AP | 33,141 | 130 | 1,140 | 2.7 | 136.4 | 136.4 | 136.4 | 0.0 |
| AQ | 33,291 | 110 | 830 | 3.8 | 136.4 | 136.4 | 136.5 | 0.1 |
| AR | 33,731 | 160 | 1,000 | 3.1 | 137.0 | 137.0 | 137.0 | 0.0 |
| AS | 36,169 | 200 | 2,039 | 1.6 | 145.0 | 145.0 | 146.0 | 1.0 |
| AT | 37,510 | 200 | 1,972 | 1.7 | 145.1 | 145.1 | 146.1 | 1.0 |
| AU | 38,450 | 75 | 521 | 6.4 | 145.1 | 145.1 | 145.9 | 0.8 |
| AV | 39,691 | 51 | 289 | 11.5 | 145.4 | 145.4 | 146.1 | 0.7 |
| AW | 40,045 | 100 | 928 | 3.6 | 150.7 | 150.7 | 151.1 | 0.4 |
| AX | 40,425 | 72 | 531 | 6.2 | 150.7 | 150.7 | 151.1 | 0.4 |
| AY | 41,074 | 70 | 589 | 5.6 | 153.9 | 153.9 | 154.3 | 0.4 |
| AZ | 41,206 | 70 | 582 | 5.7 | 154.3 | 154.3 | 155.3 | 1.0 |

¹ Feet above confluence with Concord River

| | | |
|----------------|---|----------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | | ASSABET RIVER |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Assabet River (continued) | | | | | | | | |
| BA | 41,343 | 65 | 547 | 6.1 | 155.4 | 155.4 | 156.1 | 0.7 |
| BB | 41,586 | 61 | 504 | 6.6 | 156.6 | 156.6 | 157.1 | 0.5 |
| BC | 41,840 | 56 | 491 | 6.8 | 157.7 | 157.7 | 158.5 | 0.8 |
| BD | 42,093 | 67 | 745 | 4.5 | 159.1 | 159.1 | 159.8 | 0.7 |
| BE | 42,283 | 67 | 709 | 4.7 | 159.4 | 159.4 | 160.4 | 1.0 |
| BF | 42,410 | 120 | 804 | 4.1 | 159.9 | 159.9 | 160.8 | 0.9 |
| BG | 43,292 | 103 | 740 | 4.5 | 162.6 | 162.6 | 163.1 | 0.5 |
| BH | 44,073 | 197 | 849 | 3.9 | 165.2 | 165.2 | 166.2 | 1.0 |
| BI | 45,024 | 85 | 667 | 5.0 | 168.5 | 168.5 | 169.3 | 0.8 |
| BJ | 45,266 | 60 | 332 | 10.0 | 169.6 | 169.6 | 169.9 | 0.3 |
| BK | 46,095 | 127 | 1,215 | 2.7 | 172.8 | 172.8 | 173.6 | 0.8 |
| BL | 46,359 | 81 | 764 | 4.3 | 173.3 | 173.3 | 173.9 | 0.6 |
| BM | 46,682 | 120 | 1,176 | 2.8 | 178.5 | 178.5 | 179.1 | 0.6 |
| BN | 48,134 | 368 | 3,249 | 1.0 | 178.9 | 178.9 | 179.5 | 0.6 |
| BO | 48,978 | 365 | 4,054 | 0.8 | 179.0 | 179.0 | 179.5 | 0.5 |
| BP | 49,090 | 365 | 3,619 | 0.9 | 179.2 | 179.2 | 180.2 | 1.0 |
| BQ | 49,216 | 480 | 6,504 | 0.5 | 179.2 | 179.2 | 180.2 | 1.0 |
| BR | 50,436 | 256 | 2,503 | 1.3 | 179.2 | 179.2 | 180.2 | 1.0 |
| BS | 51,376 | 195 | 1,921 | 1.7 | 179.3 | 179.3 | 180.2 | 0.9 |
| BT | 52,395 | 185 | 1,949 | 1.7 | 179.4 | 179.4 | 180.3 | 0.9 |
| BU | 53,414 | 214 | 2,363 | 1.4 | 179.5 | 179.5 | 180.4 | 0.9 |
| BV | 54,417 | 230 | 2,798 | 1.2 | 179.5 | 179.5 | 180.5 | 1.0 |
| BW | 55,431 | 474 | 5,632 | 0.6 | 179.6 | 179.6 | 180.5 | 0.9 |
| BX | 56,413 | 537 | 5,887 | 0.6 | 179.6 | 179.6 | 180.5 | 0.9 |
| BY | 57,654 | 292 | 2,833 | 1.1 | 179.6 | 179.6 | 180.5 | 0.9 |
| BZ | 58,773 | 198 | 2,032 | 1.6 | 179.7 | 179.7 | 180.6 | 0.9 |

¹ Feet above confluence with Concord River

| | | |
|----------------|---|----------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | | ASSABET RIVER |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Assabet River (continued) | | | | | | | | |
| CA | 59,993 | 202 | 2,128 | 1.5 | 179.8 | 179.8 | 180.7 | 0.9 |
| CB | 60,996 | 130 | 1,582 | 2.1 | 180.2 | 180.2 | 181.0 | 0.8 |
| CC | 61,117 | 355 | 3,157 | 1.0 | 180.3 | 180.3 | 181.1 | 0.8 |
| CD | 61,751 | 136 | 1,305 | 2.5 | 180.3 | 180.3 | 181.1 | 0.8 |
| CE | 62,849 | 80 | 863 | 3.5 | 180.6 | 180.6 | 181.4 | 0.8 |
| CF | 64,000 | 270 | 2,432 | 1.3 | 180.9 | 180.9 | 181.7 | 0.8 |
| CG | 64,829 | 423 | 2,853 | 1.0 | 180.9 | 180.9 | 181.8 | 0.9 |
| CH | 65,896 | 337 | 2,376 | 1.3 | 180.9 | 180.9 | 181.8 | 0.9 |
| CI | 66,899 | 679 | 5,161 | 0.6 | 180.9 | 180.9 | 181.9 | 1.0 |
| CJ | 69,016 | 102 | 749 | 3.6 | 180.9 | 180.9 | 181.9 | 1.0 |
| CK | 71,234 | 65 | 640 | 4.2 | 182.1 | 182.1 | 182.8 | 0.7 |
| CL | 72,876 | 165 | 1,253 | 2.1 | 182.5 | 182.5 | 183.1 | 0.6 |
| CM | 74,513 | 60 | 335 | 7.9 | 182.5 | 182.5 | 183.1 | 0.6 |
| CN | 74,967 | 70 | 743 | 3.6 | 194.3 | 194.3 | 194.3 | 0.0 |
| CO | 75,505 | 100 | 820 | 3.2 | 194.4 | 194.4 | 194.4 | 0.0 |
| CP | 76,577 | 160 | 1,283 | 2.1 | 194.6 | 194.6 | 194.6 | 0.0 |
| CQ | 77,617 | 261 | 1,434 | 1.9 | 194.6 | 194.6 | 194.7 | 0.1 |
| CR | 78,705 | 418 | 1,448 | 1.8 | 194.7 | 194.7 | 194.7 | 0.0 |
| CS | 79,745 | 70 | 524 | 5.1 | 194.8 | 194.8 | 194.9 | 0.1 |
| CT | 80,876 | 67 | 696 | 3.6 | 195.0 | 195.0 | 196.0 | 1.0 |
| CU | 81,615 | 70 | 530 | 4.8 | 195.5 | 195.5 | 196.5 | 1.0 |
| CV | 82,877 | 206 | 1,085 | 2.3 | 197.4 | 197.4 | 198.2 | 0.8 |
| CW | 83,775 | 256 | 1,695 | 1.5 | 198.1 | 198.1 | 199.0 | 0.9 |
| CX | 84,498 | 246 | 1,472 | 1.7 | 198.4 | 198.4 | 199.3 | 0.9 |
| CY | 84,598 | 263 | 1,416 | 1.8 | 199.7 | 199.7 | 200.3 | 0.6 |
| CZ | 84,720 | 81 | 644 | 3.9 | 199.7 | 199.7 | 200.3 | 0.6 |

¹ Feet above confluence with Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ASSABET RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Assabet River (continued) | | | | | | | | |
| DA | 85,718 | 326 | 2,230 | 1.1 | 200.4 | 200.4 | 201.1 | 0.7 |
| DB | 86,779 | 152 | 1,845 | 1.3 | 200.5 | 200.5 | 201.2 | 0.7 |
| DC | 86,901 | 113 | 1,567 | 1.6 | 200.5 | 200.5 | 201.2 | 0.7 |
| DD | 87,011 | 60 | 920 | 2.7 | 200.5 | 200.5 | 201.2 | 0.7 |
| DE | 87,080 | 58 | 609 | 4.1 | 200.5 | 200.5 | 201.5 | 1.0 |
| DF | 87,138 | 160 | 1,714 | 1.5 | 200.9 | 200.9 | 201.9 | 1.0 |
| DG | 87,260 | 259 | 2,372 | 1.1 | 200.9 | 200.9 | 201.9 | 1.0 |
| DH | 88,141 | 356 | 3,064 | 0.8 | 201.0 | 201.0 | 202.0 | 1.0 |
| DI | 89,240 | 130 | 1,173 | 2.1 | 201.2 | 201.2 | 202.2 | 1.0 |
| DJ | 90,259 | 273 | 4,520 | 0.6 | 201.6 | 201.6 | 202.6 | 1.0 |
| DK | 91,156 | 332 | 2,539 | 0.9 | 201.8 | 201.8 | 202.8 | 1.0 |
| DL | 91,278 | 68 | 827 | 2.9 | 201.8 | 201.8 | 202.8 | 1.0 |
| DM | 91,399 | 256 | 2,130 | 1.1 | 202.0 | 202.0 | 202.9 | 0.9 |
| DN | 92,777 | 110 | 896 | 2.4 | 202.5 | 202.5 | 203.4 | 0.9 |
| DO | 92,909 | 70 | 629 | 3.2 | 202.8 | 202.8 | 203.8 | 1.0 |
| DP | 93,031 | 79 | 822 | 2.6 | 203.0 | 203.0 | 203.9 | 0.9 |
| DQ | 93,210 | 70 | 689 | 3.1 | 203.1 | 203.1 | 204.0 | 0.9 |
| DR | 93,310 | 98 | 766 | 2.8 | 203.2 | 203.2 | 204.2 | 1.0 |
| DS | 93,427 | 78 | 686 | 3.0 | 203.4 | 203.4 | 204.2 | 0.8 |
| DT | 93,548 | 75 | 681 | 3.1 | 203.6 | 203.6 | 204.5 | 0.9 |
| DU | 93,701 | 90 | 777 | 2.8 | 204.8 | 204.8 | 205.3 | 0.5 |
| DV | 93,817 | 82 | 750 | 2.8 | 204.9 | 204.9 | 205.3 | 0.4 |
| DW | 94,821 | 97 | 767 | 2.6 | 205.4 | 205.4 | 206.0 | 0.6 |
| DX | 94,937 | 67 | 728 | 2.7 | 205.5 | 205.5 | 206.0 | 0.5 |
| DY | 94,968 | 63 | 683 | 2.9 | 207.7 | 207.7 | 207.7 | 0.0 |
| DZ | 95,058 | 60 | 622 | 3.2 | 207.7 | 207.7 | 207.7 | 0.0 |

¹ Feet above confluence with Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ASSABET RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Assabet River (continued) | | | | | | | | |
| EA | 95,861 | 300 | 1,875 | 1.1 | 208.0 | 208.0 | 208.1 | 0.1 |
| EB | 96,600 | 235 | 1,168 | 1.7 | 208.1 | 208.1 | 208.2 | 0.1 |
| EC | 97,640 | 130 | 1,049 | 1.8 | 208.4 | 208.4 | 208.6 | 0.2 |
| ED | 97,751 | 190 | 1,207 | 1.6 | 208.5 | 208.5 | 208.6 | 0.1 |
| EE | 97,851 | 135 | 801 | 2.4 | 208.5 | 208.5 | 208.6 | 0.1 |
| EF | 98,733 | 187 | 953 | 2.0 | 208.8 | 208.8 | 208.9 | 0.1 |
| EG | 99,889 | 47 | 380 | 5.1 | 209.1 | 209.1 | 209.2 | 0.1 |
| EH | 100,771 | 134 | 551 | 3.5 | 210.0 | 210.0 | 210.4 | 0.4 |
| EI | 101,954 | 210 | 1,369 | 1.4 | 210.4 | 210.4 | 211.1 | 0.7 |
| EJ | 102,070 | 210 | 1,016 | 1.9 | 210.8 | 210.8 | 211.3 | 0.5 |
| EK | 102,191 | 149 | 805 | 2.4 | 210.8 | 210.8 | 211.3 | 0.5 |
| EL | 103,110 | 159 | 823 | 2.3 | 210.9 | 210.9 | 211.4 | 0.5 |
| EM | 104,171 | 103 | 650 | 3.0 | 211.0 | 211.0 | 211.5 | 0.5 |
| EN | 105,212 | 199 | 1,019 | 1.9 | 211.5 | 211.5 | 212.2 | 0.7 |
| EO | 106,310 | 168 | 913 | 2.1 | 212.1 | 212.1 | 212.8 | 0.7 |
| EP | 107,429 | 76 | 577 | 3.2 | 212.7 | 212.7 | 213.4 | 0.7 |
| EQ | 107,529 | 75 | 558 | 3.3 | 212.7 | 212.7 | 213.4 | 0.7 |
| ER | 107,651 | 120 | 685 | 2.7 | 212.7 | 212.7 | 213.5 | 0.8 |
| ES | 107,783 | 120 | 674 | 2.7 | 212.7 | 212.7 | 213.5 | 0.8 |
| ET | 107,910 | 75 | 722 | 2.6 | 212.9 | 212.9 | 213.6 | 0.7 |

¹ Feet above confluence with Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ASSABET RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------|---------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Baddacook Brook | | | | | | | | |
| A | 1,010 ¹ | 130 | 362 | 1.6 | 198.2 | 198.2 | 198.2 | 0.0 |
| B | 1,950 ¹ | 40 | 80 | 7.4 | 207.3 | 207.3 | 207.5 | 0.2 |
| Baiting Brook | | | | | | | | |
| A | 1,700 ² | 130 | 850 | 0.6 | 165.1 | 165.1 | 166.1 | 1.0 |
| B | 2,920 ² | 50 | 107 | 4.6 | 172.3 | 172.3 | 173.3 | 1.0 |
| C | 3,800 ² | 100 | 615 | 0.5 | 178.1 | 178.1 | 179.1 | 1.0 |
| D | 5,700 ² | 150 | 953 | 0.4 | 182.2 | 182.2 | 183.2 | 1.0 |
| E | 6,730 ² | 220 | 1,405 | 0.3 | 182.6 | 182.6 | 183.6 | 1.0 |
| F | 7,430 ² | 490 | 2,607 | 0.1 | 182.7 | 182.7 | 183.7 | 1.0 |
| G | 8,575 ² | 90 | 475 | 0.4 | 185.9 | 185.9 | 186.9 | 1.0 |
| H | 9,710 ² | 70 | 155 | 1.3 | 187.2 | 187.2 | 188.2 | 1.0 |
| I | 11,125 ² | 102 | 192 | 0.7 | 190.1 | 190.1 | 191.1 | 1.0 |
| J | 11,900 ² | 25 | 51 | 3.8 | 193.0 | 193.0 | 194.0 | 1.0 |
| K | 12,400 ² | 35 | 110 | 1.8 | 196.4 | 196.4 | 197.4 | 1.0 |
| Bear Meadow Brook | | | | | | | | |
| A | 3,390 ³ | 140 | 266 | 1.1 | 70.3 | 69.9 ⁴ | 70.9 | 1.0 |
| B | 4,551 ³ | 180 | 399 | 0.7 | 70.5 | 70.5 | 71.5 | 1.0 |
| C | 7,313 ³ | 60 | 117 | 1.6 | 73.9 | 73.9 | 74.9 | 1.0 |

¹ Feet above confluence with Cow Pond Brook

⁴ Elevation computed without consideration of backwater effects from Ipswich River

² Feet above confluence with Sudbury River

³ Feet above confluence with Ipswich River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**BADDACOOK BROOK - BAITING BROOK -
BEAR MEADOW BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Beaver Brook 1 | | | | | | | | |
| A-L* | * | * | * | * | * | * | * | * |
| M | 4,504 ¹ | 46 | 398 | 3.0 | 39.7 | 39.7 | 39.7 | 0.0 |
| N | 4,636 ¹ | 25 | 234 | 5.0 | 39.7 | 39.7 | 39.7 | 0.0 |
| O | 4,774 ¹ | 141 | 597 | 2.0 | 39.7 | 39.7 | 40.0 | 0.3 |
| P | 5,523 ¹ | 24 | 188 | 6.3 | 40.3 | 40.3 | 40.9 | 0.6 |
| Q | 6,273 ¹ | 77 | 553 | 2.1 | 40.8 | 40.8 | 41.8 | 1.0 |
| R | 6,490 ¹ | 80 | 490 | 2.4 | 42.8 | 42.8 | 42.8 | 0.0 |
| S | 6,806 ¹ | 79 | 513 | 2.3 | 42.9 | 42.9 | 43.1 | 0.2 |
| T | 7,155 ¹ | 200 | 330 | 3.6 | 43.7 | 43.7 | 44.0 | 0.3 |
| U | 7,466 ¹ | 80 | 346 | 3.4 | 45.2 | 45.2 | 45.7 | 0.5 |
| V | 8,169 ¹ | 50 | 221 | 5.3 | 48.4 | 48.4 | 48.7 | 0.3 |
| W | 8,285 ¹ | 50 | 280 | 4.2 | 50.8 | 50.8 | 51.1 | 0.3 |
| X | 8,427 ¹ | 60 | 325 | 3.6 | 51.2 | 51.2 | 51.2 | 0.0 |
| Y | 8,929 ¹ | 20 | 153 | 6.5 | 51.5 | 51.5 | 52.1 | 0.6 |
| Z | 9,198 ¹ | 120 | 578 | 1.7 | 51.8 | 51.8 | 52.8 | 1.0 |
| AA | 9,568 ¹ | 318 | 2,279 | 0.4 | 51.9 | 51.9 | 52.9 | 1.0 |
| AB | 9,996 ¹ | 217 | 1,821 | 0.5 | 51.9 | 51.9 | 52.9 | 1.0 |
| AC | 10,677 ¹ | 134 | 934 | 1.1 | 51.9 | 51.9 | 52.9 | 1.0 |
| AD | 12,086 ¹ | 86 | 385 | 2.6 | 52.8 | 52.8 | 53.7 | 0.9 |
| AE | 13,259 ¹ | 109 | 177 | 5.7 | 60.7 | 60.7 | 61.3 | 0.6 |
| AF | 13,861 ¹ | 51 | 125 | 8.0 | 72.4 | 72.4 | 72.8 | 0.4 |
| Beaver Brook 2 | | | | | | | | |
| A | 650 ² | 19 | 34 | 7.7 | 112.2 | 112.2 | 112.2 | 0.0 |
| B | 1,525 ² | 29 | 74 | 3.5 | 119.4 | 119.4 | 119.4 | 0.0 |
| C | 2,100 ² | 14 | 53 | 4.9 | 119.9 | 119.9 | 120.0 | 0.1 |

¹ Feet above confluence with Charles River

² Feet above confluence with River Meadow Brook

* No data available

| | | |
|----------------|---|--|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | | BEAVER BROOK 1 – BEAVER BROOK 2 |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|----------------------------|---------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Beaver Brook 2 (continued) | | | | | | | | |
| D | 3,415 ¹ | 12 | 63 | 4.1 | 124.9 | 124.9 | 125.6 | 0.7 |
| E | 3,515 ¹ | 10 | 65 | 4.0 | 125.5 | 125.5 | 126.0 | 0.5 |
| F | 3,756 ¹ | 8 | 38 | 6.8 | 128.1 | 128.1 | 128.6 | 0.5 |
| G | 3,836 ¹ | 13 | 62 | 4.2 | 130.6 | 130.6 | 131.2 | 0.6 |
| H | 4,536 ¹ | 30 | 40 | 6.6 | 139.4 | 139.4 | 139.4 | 0.0 |
| Beaver Brook 3 | | | | | | | | |
| A | 225 ² | 116 | 1,580 | 2.7 | 70.6 | 65.3 ³ | 66.2 | 0.9 |
| B | 495 ² | 320 | 1,816 | 2.3 | 70.6 | 65.7 ³ | 66.7 | 1.0 |
| C | 1,505 ² | 236 | 1,583 | 2.7 | 70.6 | 65.9 ³ | 66.8 | 0.9 |
| D | 3,225 ² | 173 | 2,057 | 2.0 | 78.0 | 78.0 | 78.5 | 0.5 |
| E | 4,575 ² | 142 | 1,096 | 3.7 | 78.8 | 78.8 | 79.5 | 0.7 |
| F | 7,967 ² | 290 | 1,761 | 2.3 | 90.2 | 90.2 | 90.5 | 0.3 |
| G | 9,455 ² | 302 | 1,654 | 2.4 | 90.5 | 90.5 | 91.1 | 0.6 |
| H | 11,155 ² | 510 | 2,365 | 1.7 | 91.8 | 91.8 | 92.6 | 0.8 |
| I | 14,465 ² | 200 | 1,481 | 2.7 | 93.8 | 93.8 | 94.8 | 1.0 |
| J | 16,255 ² | 75 | 815 | 5.0 | 108.5 | 108.5 | 108.6 | 0.1 |
| K | 19,005 ² | 200 | 1,149 | 3.3 | 118.9 | 118.9 | 118.9 | 0.0 |
| L | 22,305 ² | 275 | 1,912 | 2.0 | 121.9 | 121.9 | 122.3 | 0.4 |

¹ Feet above confluence with River Meadow Brook

² Feet above confluence with Merrimack River

³ Elevation computed without consideration of backwater effects from Merrimack River

| | | |
|----------------|---|--|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | | BEAVER BROOK 2 – BEAVER BROOK 3 |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Beaver Brook 4 | | | | | | | | |
| A | 650 | 27 | 101 | 8.3 | 207.4 | 204.2 ² | 204.2 | 0.0 |
| B | 700 | 27 | 93 | 9.1 | 207.4 | 204.5 ² | 204.7 | 0.2 |
| C | 740 | 303 | 1,368 | 0.6 | 207.4 | 206.5 ² | 206.5 | 0.0 |
| D | 3,640 | 243 | 759 | 1.1 | 207.4 | 206.6 ² | 206.6 | 0.0 |
| E | 5,580 | 30 | 105 | 8.1 | 207.4 | 206.9 ² | 206.9 | 0.0 |
| F | 5,600 | 30 | 142 | 5.9 | 207.4 | 207.1 ² | 207.7 | 0.6 |
| G | 5,650 | 96 | 598 | 1.4 | 208.0 | 208.0 | 208.4 | 0.4 |
| H | 8,170 | 350 | 1,230 | 0.6 | 208.2 | 208.2 | 208.6 | 0.4 |
| I | 14,219 | 120 | 462 | 1.6 | 209.0 | 209.0 | 209.5 | 0.5 |
| J | 16,521 | 200 | 901 | 0.8 | 210.6 | 210.6 | 211.0 | 0.4 |
| K | 17,815 | 150 | 660 | 1.1 | 210.7 | 210.7 | 211.2 | 0.5 |
| L | 18,686 | 100 | 528 | 1.4 | 211.0 | 211.0 | 211.6 | 0.6 |
| M | 19,679 | 200 | 1,090 | 0.7 | 211.1 | 211.1 | 211.8 | 0.7 |
| N | 21,131 | 60 | 363 | 2.1 | 211.1 | 211.1 | 211.8 | 0.7 |
| O | 22,440 | 100 | 445 | 1.7 | 211.6 | 211.6 | 212.4 | 0.8 |
| P | 23,575 | 80 | 509 | 1.3 | 214.0 | 214.0 | 214.5 | 0.5 |
| Q | 25,239 | 60 | 313 | 2.2 | 214.2 | 214.2 | 215.2 | 1.0 |
| R | 26,981 | 328 | 2,273 | 0.3 | 216.2 | 216.2 | 216.2 | 0.0 |
| S | 29,331 | 36 | 80 | 8.6 | 217.1 | 217.1 | 217.1 | 0.0 |
| T | 29,991 | 65 | 327 | 1.8 | 223.0 | 223.0 | 223.3 | 0.3 |
| U | 30,487 | 40 | 385 | 1.6 | 225.1 | 225.1 | 225.9 | 0.8 |
| V | 33,497 | 200 | 1,792 | 0.3 | 225.2 | 225.2 | 226.0 | 0.8 |
| W | 34,991 | 80 | 625 | 1.0 | 225.7 | 225.7 | 226.4 | 0.7 |
| X | 36,316 | 60 | 445 | 1.4 | 225.7 | 225.7 | 226.5 | 0.8 |
| Y | 37,858 | 75 | 564 | 0.9 | 226.2 | 226.2 | 226.9 | 0.7 |
| Z | 39,125 | 125 | 854 | 0.6 | 226.2 | 226.2 | 227.0 | 0.8 |

¹ Feet above confluence with Forge Pond

² Elevation computed without consideration of backwater effects from Forge Pond

| | | |
|----------------|---|-----------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | BEAVER BROOK 4 |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|----------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Beaver Brook 4 (continued) | | | | | | | | |
| AA | 40,503 | 125 | 633 | 0.8 | 226.3 | 226.3 | 227.2 | 0.9 |
| AB | 40,714 | 41 | 149 | 1.7 | 226.3 | 226.3 | 227.3 | 1.0 |
| AC | 40,820 | 179 | 727 | 0.3 | 226.9 | 226.9 | 227.5 | 0.6 |
| AD | 41,453 | 110 | 470 | 0.5 | 226.9 | 226.9 | 227.5 | 0.6 |
| AE | 41,559 | 60 | 353 | 0.7 | 228.8 | 228.8 | 229.4 | 0.6 |
| AF | 41,717 | 33 | 249 | 1.0 | 228.8 | 228.8 | 229.4 | 0.6 |
| AG | 42,668 | 158 | 824 | 0.3 | 228.8 | 228.8 | 229.5 | 0.7 |
| AH | 43,777 | 121 | 613 | 0.4 | 228.9 | 228.9 | 229.5 | 0.6 |
| AI | 44,674 | 333 | 1,573 | 0.1 | 228.9 | 228.9 | 229.5 | 0.6 |
| AJ | 45,519 | 344 | 1,488 | 0.2 | 228.9 | 228.9 | 229.5 | 0.6 |
| AK | 46,406 | 368 | 1,635 | 0.1 | 228.9 | 228.9 | 229.5 | 0.6 |
| AL | 47,568 | 212 | 844 | 0.1 | 228.9 | 228.9 | 229.5 | 0.6 |
| AM | 48,571 | 202 | 767 | 0.2 | 228.9 | 228.9 | 229.5 | 0.6 |
| AN | 49,152 | 98 | 722 | 0.1 | 228.9 | 228.9 | 229.5 | 0.6 |
| AO | 50,102 | 212 | 1,031 | 0.1 | 228.9 | 228.9 | 229.5 | 0.6 |
| AP | 51,000 | 90 | 34 | 3.6 | 236.2 | 236.2 | 236.2 | 0.0 |
| AQ | 51,105 | 120 | 174 | 0.7 | 244.6 | 244.6 | 244.6 | 0.0 |
| AR | 51,739 | 50 | 293 | 0.4 | 244.7 | 244.7 | 244.7 | 0.0 |
| AS | 51,897 | 211 | 157 | 0.8 | 247.9 | 247.9 | 247.9 | 0.0 |
| AT | 52,425 | 7 | 23 | 5.3 | 248.0 | 248.0 | 248.2 | 0.2 |
| AU | 52,584 | 8 | 30 | 4.0 | 255.2 | 255.2 | 255.2 | 0.0 |
| AV | 52,689 | 8 | 37 | 3.2 | 256.2 | 256.2 | 256.2 | 0.0 |
| AW | 52,848 | 71 | 305 | 0.4 | 256.8 | 256.8 | 257.7 | 0.9 |
| AX | 53,587 | 5 | 14 | 7.1 | 256.9 | 256.9 | 257.7 | 0.8 |
| AY | 54,527 | 34 | 71 | 1.4 | 260.0 | 260.0 | 261.0 | 1.0 |
| AZ | 55,319 | 10 | 38 | 2.6 | 269.5 | 269.5 | 270.5 | 1.0 |

¹ Feet above confluence with Forge Pond

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BEAVER BROOK 4

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|----------------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Beaver Brook 4 (continued) | | | | | | | | |
| BA | 55,424 ¹ | 10 | 14 | 6.8 | 274.1 | 274.1 | 274.2 | 0.1 |
| BB | 56,375 ¹ | 19 | 41 | 2.3 | 284.1 | 284.1 | 284.5 | 0.4 |
| BC | 56,480 ¹ | 153 | 478 | 0.2 | 287.3 | 287.3 | 287.3 | 0.0 |
| BD | 57,483 ¹ | 100 | 207 | 0.5 | 287.5 | 287.5 | 287.5 | 0.0 |
| Beaver Brook 5 | | | | | | | | |
| A | 21,595 ² | 32 | 150 | 2.2 | 194.6 | 194.6 | 195.6 | 1.0 |
| B | 22,044 ² | 24 | 79 | 4.3 | 195.8 | 195.8 | 196.2 | 0.4 |
| C | 22,387 ² | 20 | 68 | 4.9 | 199.2 | 199.2 | 199.5 | 0.3 |
| D | 22,704 ² | 34 | 166 | 2.0 | 200.1 | 200.1 | 200.4 | 0.3 |
| E | 22,968 ² | 15 | 71 | 4.8 | 200.6 | 200.6 | 201.0 | 0.4 |
| F | 23,206 ² | 19 | 90 | 3.7 | 202.1 | 202.1 | 202.2 | 0.1 |
| G | 24,314 ² | 167 | 545 | 0.6 | 202.4 | 202.4 | 202.6 | 0.2 |
| H | 24,473 ² | 241 | 433 | 0.7 | 202.4 | 202.4 | 202.6 | 0.2 |

¹ Feet above confluence with Forge Pond

² Feet above confluence with Charles River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BEAVER BROOK 4 – BEAVER BROOK 5

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Beaverdam Brook | | | | | | | | |
| A | 132 | 155 | 761 | 0.6 | 137.9 | 137.9 | 138.9 | 1.0 |
| B | 232 | 158 | 1,243 | 0.4 | 138.7 | 138.7 | 139.7 | 1.0 |
| C | 576 | 137 | 927 | 0.5 | 138.7 | 138.7 | 139.7 | 1.0 |
| D | 681 | 131 | 698 | 0.6 | 138.7 | 138.7 | 139.7 | 1.0 |
| E | 781 | 200 | 1,140 | 0.4 | 138.7 | 138.7 | 139.7 | 1.0 |
| F | 1,542 | 35 | 60 | 7.5 | 139.7 | 139.7 | 139.7 | 0.0 |
| G | 2,561 | 30 | 176 | 2.6 | 142.9 | 142.9 | 143.4 | 0.5 |
| H | 2,699 | 30 | 158 | 2.9 | 142.9 | 142.9 | 143.9 | 1.0 |
| I | 2,798 | 30 | 195 | 2.3 | 143.1 | 143.1 | 144.0 | 0.9 |
| J | 3,701 | 27 | 194 | 2.3 | 143.7 | 143.7 | 144.6 | 0.9 |
| K | 3,839 | 27 | 254 | 1.8 | 146.2 | 146.2 | 147.1 | 0.9 |
| L | 3,981 | 37 | 309 | 1.5 | 146.2 | 146.2 | 147.1 | 0.9 |
| M | 5,116 | 80 | 512 | 0.9 | 146.4 | 146.4 | 147.3 | 0.9 |
| N | 5,238 | 25 | 248 | 1.8 | 147.4 | 147.4 | 148.4 | 1.0 |
| O | 5,359 | 72 | 584 | 0.8 | 147.4 | 147.4 | 148.4 | 1.0 |
| P | 5,977 | 30 | 322 | 1.4 | 147.5 | 147.5 | 148.5 | 1.0 |
| Q | 6,098 | 30 | 310 | 1.5 | 148.2 | 148.2 | 149.2 | 1.0 |
| R | 6,220 | 62 | 424 | 1.1 | 148.2 | 148.2 | 149.2 | 1.0 |
| S | 6,801 | 50 | 356 | 1.3 | 148.3 | 148.3 | 149.3 | 1.0 |
| T | 7,498 | 37 | 297 | 1.5 | 148.5 | 148.5 | 149.5 | 1.0 |
| U | 7,619 | 35 | 259 | 1.7 | 148.5 | 148.5 | 149.5 | 1.0 |
| V | 7,740 | 35 | 248 | 1.8 | 148.5 | 148.5 | 149.5 | 1.0 |
| W | 7,941 | 31 | 250 | 1.8 | 148.6 | 148.6 | 149.5 | 0.9 |
| X | 8,073 | 25 | 238 | 1.9 | 149.0 | 149.0 | 150.0 | 1.0 |
| Y | 8,321 | 52 | 467 | 1.0 | 149.0 | 149.0 | 150.0 | 1.0 |
| Z | 8,469 | 44 | 470 | 1.0 | 150.2 | 150.2 | 151.2 | 1.0 |
| AA | 8,617 | 41 | 362 | 1.2 | 150.2 | 150.2 | 151.2 | 1.0 |
| AB | 8,939 | 173 | 1,044 | 0.4 | 150.2 | 150.2 | 151.2 | 1.0 |

¹ Feet above Fisk Pond

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BEAVERDAM BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Beaverdam Brook (continued) | | | | | | | | |
| AC | 9,619 | 120 | 568 | 0.7 | 150.6 | 150.6 | 151.2 | 0.6 |
| AD | 11,124 | 80 | 320 | 1.2 | 150.7 | 150.7 | 151.4 | 0.7 |
| AE | 12,019 | 300 | 1,697 | 0.2 | 151.3 | 151.3 | 151.9 | 0.6 |
| AF | 14,319 | 100 | 377 | 1.0 | 152.8 | 152.8 | 153.8 | 1.0 |
| AG | 16,309 | 200 | 722 | 0.5 | 153.5 | 153.5 | 154.0 | 0.5 |
| AH | 17,139 | 400 | 1,728 | 0.2 | 153.8 | 153.8 | 154.2 | 0.4 |
| AI | 18,439 | 80 | 314 | 1.2 | 153.8 | 153.8 | 154.2 | 0.4 |
| AJ | 20,479 | 280 | 611 | 0.6 | 156.8 | 156.8 | 156.8 | 0.0 |
| AK | 20,989 | 450 | 1,437 | 0.3 | 156.8 | 156.8 | 156.9 | 0.1 |
| AL | 22,484 | 585 | 1,969 | 0.2 | 156.8 | 156.8 | 156.9 | 0.1 |

¹ Feet above Fisk Pond

| | | |
|----------------|---|------------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | BEAVERDAM BROOK |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Bennetts Brook | | | | | | | | |
| A | 1,140 ¹ | 195 | 85 | 3.8 | 212.2 | 212.2 | 212.7 | 0.5 |
| B | 1,880 ¹ | 200 | 446 | 0.7 | 212.7 | 212.7 | 213.3 | 0.6 |
| C | 2,630 ¹ | 210 | 489 | 0.7 | 212.8 | 212.8 | 213.5 | 0.7 |
| D | 3,090 ¹ | 250 | 1,138 | 0.3 | 218.9 | 218.9 | 218.9 | 0.0 |
| E | 3,375 ¹ | 205 | 643 | 0.5 | 218.9 | 218.9 | 218.9 | 0.0 |
| F | 3,810 ¹ | 175 | 1,307 | 0.2 | 225.7 | 225.7 | 225.7 | 0.0 |
| G | 4,300 ¹ | 70 | 207 | 1.6 | 225.8 | 225.8 | 225.8 | 0.0 |
| H | 5,240 ¹ | 120 | 597 | 0.5 | 243.4 | 243.4 | 243.4 | 0.0 |
| I | 5,930 ¹ | 75 | 109 | 3.0 | 244.2 | 244.2 | 244.5 | 0.3 |
| J | 7,520 ¹ | 40 | 100 | 3.2 | 250.5 | 250.5 | 250.8 | 0.3 |
| K | 8,750 ¹ | 60 | 127 | 1.6 | 254.9 | 254.9 | 255.5 | 0.6 |
| L | 10,105 ¹ | 50 | 125 | 1.7 | 256.1 | 256.1 | 256.6 | 0.5 |
| M | 10,540 ¹ | 157 | 1,013 | 0.2 | 261.8 | 261.8 | 261.8 | 0.0 |
| N | 11,235 ¹ | 166 | 747 | 0.3 | 261.9 | 261.9 | 261.9 | 0.0 |
| O | 11,680 ¹ | 68 | 165 | 1.3 | 261.9 | 261.9 | 261.9 | 0.0 |
| P | 12,080 ¹ | 130 | 474 | 0.4 | 265.5 | 265.5 | 265.5 | 0.0 |
| Birch Meadow Brook | | | | | | | | |
| A | 420 ² | 100 | 45 | 2.2 | 185.6 | 185.6 | 186.6 | 1.0 |
| B | 1,580 ² | 90 | 23 | 7.6 | 192.2 | 192.2 | 193.2 | 1.0 |
| C | 2,460 ² | 60 | 115 | 1.6 | 193.7 | 193.7 | 194.7 | 1.0 |

¹ Feet above confluence with Spectacle Pond

² Feet above confluence with East Outlet

| | | |
|----------------|---|----------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | BENNETTS BROOK – BIRCH MEADOW BROOK | |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|---------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Black Brook | | | | | | | | |
| A | 330 ¹ | 104 | 359 | 0.7 | 99.4 | 96.5 ³ | 96.6 | 0.1 |
| B | 1,680 ¹ | 168 | 627 | 0.4 | 99.4 | 99.0 ³ | 99.1 | 0.1 |
| C | 2,260 ¹ | 193 | 915 | 0.2 | 101.6 | 101.6 | 101.6 | 0.0 |
| D | 2,900 ¹ | 136 | 375 | 0.7 | 101.6 | 101.6 | 101.6 | 0.0 |
| E | 4,080 ¹ | 337 | 2,143 | 0.1 | 104.8 | 104.8 | 105.6 | 0.8 |
| F | 5,140 ¹ | 33 | 142 | 1.8 | 104.8 | 104.8 | 105.5 | 0.7 |
| G | 5,980 ¹ | 31 | 39 | 6.4 | 106.5 | 106.5 | 106.5 | 0.0 |
| H | 8,470 ¹ | 60 | 153 | 1.6 | 110.7 | 110.7 | 111.3 | 0.6 |
| Bogastow Brook-Jar Brook | | | | | | | | |
| A | 0 ² | 149 | 630 | 2.4 | 146.4 | 146.4 | 146.5 | 0.1 |
| B | 1,670 ² | 159 | 1,072 | 1.8 | 148.3 | 148.3 | 149.3 | 1.0 |
| C | 2,076 ² | 150 | 898 | 2.1 | 149.0 | 149.0 | 149.8 | 0.8 |
| D | 4,478 ² | 345 | 1,491 | 1.2 | 150.8 | 150.8 | 151.8 | 1.0 |
| E | 6,548 ² | 131 | 730 | 1.7 | 152.1 | 152.1 | 153.1 | 1.0 |
| F | 6,928 ² | 154 | 761 | 1.4 | 152.4 | 152.4 | 153.4 | 1.0 |
| G | 9,827 ² | 498 | 3,262 | 0.3 | 152.9 | 152.9 | 153.9 | 1.0 |
| H | 11,506 ² | 201 | 1,086 | 0.7 | 153.4 | 153.4 | 154.4 | 1.0 |
| I | 13,909 ² | 112 | 626 | 1.3 | 154.9 | 154.9 | 155.9 | 1.0 |
| J | 14,146 ² | 200 | 739 | 1.1 | 156.7 | 156.7 | 157.1 | 0.4 |
| K | 14,980 ² | 200 | 1,088 | 0.7 | 156.9 | 156.9 | 157.5 | 0.6 |
| L | 16,659 ² | 171 | 953 | 0.8 | 157.1 | 157.1 | 158.1 | 1.0 |
| M | 19,410 ² | 80 | 196 | 3.3 | 166.7 | 166.7 | 166.7 | 0.0 |

¹ Feet above confluence with Merrimack River

² Feet above county boundary, county boundary is approximately 1,945 feet downstream of Central Street

³ Elevation computed without consideration of backwater effects from Merrimack River

| | | |
|----------------|---|----------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | BLACK BROOK – BOGASTOW BROOK-JAR BROOK | |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Bogastow Brook-Jar Brook (continued) | | | | | | | | |
| N | 19,906 | 48 | 137 | 4.7 | 172.1 | 172.1 | 172.7 | 0.6 |
| O | 22,440 | 91 | * | * | * | * | * | * |
| P | 22,651 | 35 | 221 | 2.7 | 186.8 | 186.8 | 186.8 | 0.0 |
| Q | 23,338 | 59 | 436 | 1.4 | 186.9 | 186.9 | 187.9 | 1.0 |
| R | 23,971 | 42 | 269 | 2.2 | 187.7 | 187.7 | 188.7 | 1.0 |
| S | 24,288 | 16 | 117 | 4.3 | 188.9 | 188.9 | 189.6 | 0.7 |
| T | 25,291 | 38 | 193 | 2.6 | 190.9 | 190.9 | 191.9 | 1.0 |
| U | 26,136 | 28 | 169 | 3.0 | 192.9 | 192.9 | 193.8 | 0.9 |
| V | 26,453 | 21 | 141 | 3.5 | 193.7 | 193.7 | 194.6 | 0.9 |
| W | 26,875 | 40 | 215 | 1.9 | 197.4 | 197.4 | 197.5 | 0.1 |
| X | 27,139 | 25 | 199 | 2.0 | 197.5 | 197.5 | 197.7 | 0.2 |
| Y | 27,350 | 40 | 137 | 2.9 | 200.2 | 200.2 | 200.2 | 0.0 |
| Z | 27,878 | 95 | 307 | 1.3 | 200.9 | 200.9 | 201.9 | 1.0 |
| AA | 28,565 | 10 | 55 | 7.3 | 206.8 | 206.8 | 207.6 | 0.8 |
| AB | 28,723 | 8 | 42 | 6.6 | 209.4 | 209.4 | 209.5 | 0.1 |
| AC | 29,093 | 15 | 63 | 4.4 | 212.7 | 212.7 | 213.7 | 1.0 |
| AD | 29,304 | 12 | 92 | 3.0 | 218.4 | 218.4 | 218.5 | 0.1 |
| AE | 29,515 | 12 | 53 | 5.3 | 220.3 | 220.3 | 220.6 | 0.3 |
| AF | 29,726 | 12 | 106 | 2.7 | 226.0 | 226.0 | 226.0 | 0.0 |
| AG | 29,885 | 15 | 122 | 2.3 | 226.1 | 226.1 | 226.4 | 0.3 |
| AH | 30,096 | 10 | 46 | 4.3 | 226.3 | 226.3 | 226.6 | 0.3 |
| AI | 30,360 | 10 | 33 | 6.1 | 230.3 | 230.3 | 230.5 | 0.2 |
| AJ | 30,518 | 15 | 69 | 2.9 | 235.0 | 235.0 | 235.0 | 0.0 |
| AK | 30,782 | 9 | 45 | 4.5 | 235.4 | 235.4 | 236.1 | 0.7 |
| AL | 30,835 | 12 | 50 | 4.0 | 238.0 | 238.0 | 238.0 | 0.0 |

¹ Feet above county boundary, county boundary is approximately 1,945 feet downstream of Central Street

* Encroachment not calculated

| | | |
|----------------|---|---------------------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | | BOGASTOW BROOK-JAR BROOK |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Bogle Brook 1 | | | | | | | | |
| A | 106 ¹ | 210 | 1,896 | 0.1 | 132.1 | 132.1 | 133.1 | 1.0 |
| B | 544 ¹ | 160 | 1,325 | 0.1 | 132.1 | 132.1 | 133.1 | 1.0 |
| C | 1,484 ¹ | 170 | 940 | 0.1 | 132.1 | 132.1 | 133.1 | 1.0 |
| D | 1,616 ¹ | 148 | 468 | 0.2 | 132.1 | 132.1 | 133.1 | 1.0 |
| E | 1,748 ¹ | 173 | 912 | 0.1 | 132.1 | 132.1 | 133.1 | 1.0 |
| F | 2,767 ¹ | 64 | 259 | 0.4 | 132.1 | 132.1 | 133.1 | 1.0 |
| G | 3,797 ¹ | 40 | 134 | 0.7 | 132.1 | 132.1 | 133.1 | 1.0 |
| H | 4,277 ¹ | 17 | 53 | 1.9 | 132.2 | 132.2 | 133.1 | 0.9 |
| I | 4,420 ¹ | 17 | 53 | 1.9 | 132.4 | 132.4 | 133.4 | 1.0 |
| Bogle Brook 2 | | | | | | | | |
| A | 0 ² | 23 | 85 | 7.4 | 154.9 | 154.9 | 154.9 | 0.0 |
| B | 317 ² | 72 | 216 | 2.9 | 156.0 | 156.0 | 157.0 | 1.0 |
| C | 634 ² | 36 | 89 | 7.1 | 158.3 | 158.3 | 158.5 | 0.2 |
| D | 1,214 ² | 33 | 90 | 7.0 | 163.9 | 163.9 | 164.2 | 0.3 |
| E | 1,373 ² | 59 | 185 | 3.4 | 164.7 | 164.7 | 165.6 | 0.9 |
| F | 1,478 ² | 42 | 227 | 2.8 | 167.6 | 167.6 | 168.5 | 0.9 |
| G | 1,690 ² | 45 | 185 | 3.4 | 167.8 | 167.8 | 168.7 | 0.9 |
| H | 1,901 ² | 35 | 181 | 3.5 | 169.2 | 169.2 | 169.2 | 0.0 |
| I | 2,112 ² | 15 | 87 | 7.2 | 169.3 | 169.3 | 169.5 | 0.2 |
| J | 2,587 ² | 79 | 272 | 2.3 | 169.8 | 169.8 | 170.8 | 1.0 |
| K | 2,904 ² | 14 | 76 | 8.3 | 170.4 | 170.4 | 171.4 | 1.0 |
| L | 3,010 ² | 14 | 94 | 6.7 | 173.7 | 173.7 | 173.7 | 0.0 |
| M | 3,221 ² | 48 | 264 | 2.4 | 173.7 | 173.7 | 174.6 | 0.9 |
| N | 3,326 ² | 58 | 245 | 2.6 | 173.9 | 173.9 | 174.8 | 0.9 |
| O | 4,224 ² | 148 | 895 | 0.7 | 174.0 | 174.0 | 175.0 | 1.0 |
| P | 5,438 ² | 30 | 88 | 6.3 | 174.4 | 174.4 | 174.7 | 0.3 |

¹ Feet above limit of detailed study, limit of detailed study is approximately 1,609 feet downstream of Oak Street

² Feet above limit of detailed study, limit of detailed study is approximately 1,430 feet downstream of Sherburn Circle

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BOGLE BROOK 1 – BOGLE BROOK 2

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Bogle Brook 2 (continued) | | | | | | | | |
| Q | 5,755 ¹ | 15 | 66 | 8.4 | 177.3 | 177.3 | 178.1 | 0.8 |
| R | 6,178 ¹ | 393 | 1,870 | 0.3 | 178.4 | 178.4 | 179.4 | 1.0 |
| S | 7,075 ¹ | 72 | 312 | 1.1 | 178.7 | 178.7 | 179.7 | 1.0 |
| T | 7,603 ¹ | 391 | 2,455 | 0.1 | 183.3 | 183.3 | 184.3 | 1.0 |
| U | 7,709 ¹ | 209 | 2,348 | 0.1 | 191.8 | 191.8 | 192.8 | 1.0 |
| V | 7,973 ¹ | 25 | 300 | 1.2 | 191.8 | 191.8 | 192.8 | 1.0 |
| W | 8,290 ¹ | 191 | 1,512 | 0.2 | 191.8 | 191.8 | 192.8 | 1.0 |
| X | 8,606 ¹ | 36 | 278 | 1.3 | 191.8 | 191.8 | 192.8 | 1.0 |
| Y | 8,765 ¹ | 24 | 221 | 1.6 | 195.8 | 195.8 | 196.8 | 1.0 |
| Z | 9,662 ¹ | 478 | 2,267 | 0.2 | 196.3 | 196.3 | 197.3 | 1.0 |
| AA | 10,243 ¹ | 54 | 209 | 1.3 | 196.4 | 196.4 | 197.4 | 1.0 |
| AB | 10,349 ¹ | 100 | 436 | 0.6 | 197.6 | 197.6 | 198.6 | 1.0 |
| AC | 10,982 ¹ | 571 | 2,800 | 0.1 | 197.6 | 197.6 | 198.6 | 1.0 |
| AD | 11,880 ¹ | 33 | 142 | 1.9 | 197.9 | 197.9 | 198.9 | 1.0 |
| AE | 12,566 ¹ | 164 | 411 | 0.7 | 198.2 | 198.2 | 199.2 | 1.0 |
| AF | 13,042 ¹ | 30 | 48 | 5.6 | 204.0 | 204.0 | 204.2 | 0.2 |
| Boons Pond and Branch | | | | | | | | |
| A | 99 ² | 30 | 144 | 2.4 | 181.0 | 176.5 ³ | 177.5 | 1.0 |
| B | 618 ² | 25 | 86 | 4.1 | 181.0 | 177.7 ³ | 178.4 | 0.7 |

¹ Feet above limit of detailed study, limit of detailed study is approximately 1,430 feet downstream of Sherburn Circle

² Feet above confluence with Assabet River

³ Elevation computed without consideration of backwater effects from Assabet River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BOGLE BROOK 2 – BOONS POND AND BRANCH

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Boutwell Brook | | | | | | | | |
| A | 102 ¹ | 7 | 43 | 4.2 | 188.3 | 188.3 | 188.3 | 0.0 |
| B | 150 ¹ | 80 | 237 | 0.8 | 188.7 | 188.7 | 188.7 | 0.0 |
| C | 645 ¹ | 80 | 141 | 1.3 | 189.8 | 189.8 | 190.6 | 0.8 |
| D | 695 ¹ | 86 | 222 | 0.8 | 189.8 | 189.8 | 190.6 | 0.8 |
| E | 1,245 ¹ | 40 | 105 | 1.7 | 190.8 | 190.8 | 191.4 | 0.6 |
| F | 1,514 ¹ | 26 | 134 | 1.3 | 192.3 | 192.3 | 192.3 | 0.0 |
| G | 1,721 ¹ | 171 | 266 | 0.7 | 193.7 | 193.7 | 193.7 | 0.0 |
| H | 1,770 ¹ | 58 | 309 | 0.6 | 193.7 | 193.7 | 193.7 | 0.0 |
| I | 2,165 ¹ | 80 | 297 | 0.6 | 193.7 | 193.7 | 193.7 | 0.0 |
| J | 3,315 ¹ | 11 | 35 | 5.2 | 198.7 | 198.7 | 198.7 | 0.0 |
| K | 3,365 ¹ | 12 | 39 | 4.6 | 199.2 | 199.2 | 199.2 | 0.0 |
| L | 3,825 ¹ | 10 | 69 | 2.6 | 200.8 | 200.8 | 201.2 | 0.4 |
| M | 4,345 ¹ | 80 | 360 | 0.5 | 202.6 | 202.6 | 202.8 | 0.2 |
| N | 4,395 ¹ | 80 | 406 | 0.4 | 202.6 | 202.6 | 202.8 | 0.2 |
| O | 5,938 ¹ | 80 | 305 | 0.6 | 203.3 | 203.3 | 203.5 | 0.2 |
| P | 5,990 ¹ | 80 | 650 | 0.3 | 203.3 | 203.3 | 203.5 | 0.2 |
| Q | 7,017 ¹ | 37 | 220 | 0.8 | 206.3 | 206.3 | 206.6 | 0.3 |
| R | 7,370 ¹ | 36 | 134 | 1.3 | 206.5 | 206.5 | 206.9 | 0.4 |
| S | 7,420 ¹ | 27 | 233 | 0.8 | 206.5 | 206.5 | 206.9 | 0.4 |
| Bow Brook | | | | | | | | |
| A | 430 ² | 42 | 42 | 4.8 | 275.5 | 275.5 | 276.0 | 0.5 |
| B | 1,700 ² | 218 | 1,000 | 0.2 | 290.4 | 290.4 | 290.4 | 0.0 |

¹ Feet above confluence with Stony Brook 2

² Feet above confluence with Catacoonamug Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BOUTWELL BROOK – BOW BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Branch of Assabet River | | | | | | | | |
| A | 1,589 ¹ | 65 | 188 | 1.8 | 195.3 | 195.3 | 196.1 | 0.8 |
| B | 1,943 ¹ | 69 | 216 | 1.6 | 197.5 | 197.5 | 198.5 | 1.0 |
| C | 2,862 ¹ | 22 | 53 | 2.5 | 199.0 | 199.0 | 200.0 | 1.0 |
| D | 3,105 ¹ | 76 | 297 | 0.4 | 202.2 | 202.2 | 202.2 | 0.0 |
| E | 4,087 ¹ | 15 | 20 | 6.7 | 203.1 | 203.1 | 203.1 | 0.0 |
| F | 5,169 ¹ | 14 | 49 | 2.8 | 209.3 | 209.3 | 210.3 | 1.0 |
| G | 6,325 ¹ | 43 | 85 | 1.3 | 214.3 | 214.3 | 214.3 | 0.0 |
| H | 6,405 ¹ | 32 | 56 | 1.9 | 214.3 | 214.3 | 214.4 | 0.1 |
| I | 7,413 ¹ | 15 | 22 | 4.4 | 221.5 | 221.5 | 222.0 | 0.5 |
| J | 7,608 ¹ | 45 | 151 | 0.6 | 225.2 | 225.2 | 225.2 | 0.0 |
| K | 8,527 ¹ | 47 | 112 | 0.9 | 225.4 | 225.4 | 225.4 | 0.0 |
| L | 9,573 ¹ | 56 | 111 | 0.9 | 225.6 | 225.6 | 225.8 | 0.2 |
| Branch of Elizabeth Brook 1 | | | | | | | | |
| A | 401 ² | 12 | 63 | 2.0 | 195.0 | 195.0 | 196.0 | 1.0 |
| B | 1,062 ² | 86 | 437 | 0.3 | 195.1 | 195.1 | 196.1 | 1.0 |
| C | 1,183 ² | 40 | 186 | 0.7 | 198.8 | 198.8 | 199.8 | 1.0 |
| D | 1,299 ² | 176 | 952 | 0.1 | 198.9 | 198.9 | 199.8 | 0.9 |
| E | 2,017 ² | 225 | 1,809 | 0.1 | 198.9 | 198.9 | 199.8 | 0.9 |
| F | 2,756 ² | 15 | 49 | 2.6 | 198.9 | 198.9 | 199.8 | 0.9 |
| G | 2,872 ² | 91 | 180 | 0.7 | 202.9 | 202.9 | 202.9 | 0.0 |
| H | 2,973 ² | 38 | 195 | 0.6 | 202.9 | 202.9 | 202.9 | 0.0 |

¹ Feet above confluence with Assabet River

² Feet above confluence with Elizabeth Brook 1

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**BRANCH OF ASSABET RIVER –
BRANCH OF ELIZABETH BROOK 1**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|----------------------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Broad Meadow Brook | | | | | | | | |
| A | 500 ¹ | 15 | 32 | 3.5 | 255.1 | 248.8 ⁴ | 249.7 | 0.9 |
| B | 980 ¹ | 15 | 57 | 2.0 | 258.6 | 258.6 | 258.6 | 0.0 |
| C | 1,425 ¹ | 24 | 32 | 3.5 | 259.2 | 259.2 | 259.7 | 0.5 |
| D | 2,420 ¹ | 10 | 17 | 6.5 | 268.4 | 268.4 | 269.1 | 0.7 |
| E | 3,812 ¹ | 15 | 32 | 3.5 | 276.4 | 276.4 | 277.0 | 0.6 |
| F | 4,055 ¹ | 129 | 368 | 0.3 | 279.8 | 279.8 | 280.2 | 0.4 |
| Brook A of Shawsheen River | | | | | | | | |
| A | 158 ² | 20 | 53 | 0.7 | 75.1 | 75.1 | 75.5 | 0.4 |
| B | 739 ² | 17 | 29 | 2.5 | 77.7 | 77.7 | 78.5 | 0.8 |
| C | 845 ² | 10 | 53 | 1.4 | 81.9 | 81.9 | 81.9 | 0.0 |
| D | 1,267 ² | 35 | 139 | 0.5 | 81.9 | 81.9 | 82.1 | 0.2 |
| Brook From Waushakum Pond | | | | | | | | |
| A | 390 ³ | 9 | 24 | 2.1 | 156.7 | 153.5 ⁵ | 153.7 | 0.2 |
| B | 1,140 ³ | 220 | 791 | 0.1 | 156.7 | 156.2 ⁵ | 156.2 | 0.0 |

¹ Feet above confluence with Sudbury Reservoir

⁵ Elevation computed without consideration of backwater effects from Beaverdam Brook

² Feet above confluence with Shawsheen River

³ Feet above confluence with Beaverdam Brook

⁴ Elevation computed without consideration of backwater effects from Sudbury Reservoir

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BROAD MEADOW BROOK – BROOK A OF SHAWSHEEN RIVER – BROOK FROM WAUSHAKUM POND

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Butter Brook | | | | | | | | |
| A | 885 | 100 | 197 | 1.1 | 173.2 | 167.1 ² | 167.7 | 0.6 |
| B | 995 | 100 | 223 | 0.9 | 173.2 | 167.4 ² | 168.0 | 0.6 |
| C | 1,434 | 100 | 137 | 1.5 | 173.2 | 167.6 ² | 168.4 | 0.8 |
| D | 1,566 | 80 | 197 | 1.1 | 173.2 | 169.4 ² | 169.5 | 0.1 |
| E | 2,770 | 100 | 190 | 1.0 | 173.2 | 169.4 ² | 170.2 | 0.8 |
| F | 3,605 | 150 | 188 | 1.0 | 173.2 | 173.2 | 171.0 | 0.5 |
| G | 3,745 | 40 | 270 | 0.7 | 176.1 | 176.1 | 176.5 | 0.4 |
| H | 4,210 | 40 | 209 | 0.8 | 176.1 | 176.1 | 176.5 | 0.4 |
| I | 4,345 | 10 | 63 | 2.6 | 176.2 | 176.2 | 176.7 | 0.5 |
| J | 5,190 | 130 | 488 | 0.3 | 176.2 | 176.2 | 176.9 | 0.7 |
| K | 7,980 | 20 | 29 | 6.9 | 178.3 | 178.3 | 178.3 | 0.0 |
| L | 9,500 | 50 | 72 | 2.8 | 188.8 | 188.8 | 189.0 | 0.2 |
| M | 9,552 | 150 | 50 | 4.0 | 194.3 | 194.3 | 195.0 | 0.7 |
| N | 9,792 | 20 | 70 | 2.9 | 197.0 | 197.0 | 197.0 | 0.0 |
| O | 9,842 | 20 | 105 | 1.9 | 197.1 | 197.1 | 197.1 | 0.0 |
| P | 10,563 | 18 | 114 | 1.7 | 199.8 | 199.8 | 200.1 | 0.3 |
| Q | 10,613 | 20 | 140 | 1.4 | 199.9 | 199.9 | 200.2 | 0.3 |
| R | 11,933 | 20 | 289 | 0.6 | 199.9 | 199.9 | 200.3 | 0.4 |
| S | 13,433 | 20 | 30 | 5.4 | 200.0 | 200.0 | 200.3 | 0.3 |
| T | 14,593 | 4 | 21 | 3.3 | 209.3 | 209.3 | 209.3 | 0.0 |
| U | 14,643 | 20 | 127 | 0.5 | 209.5 | 209.5 | 209.5 | 0.0 |

¹ Feet above confluence with Nashoba Brook

² Elevation computed without consideration of backwater effects from Nashoba Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

BUTTER BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Catacoonamug Brook | | | | | | | | |
| A | 2,140 ¹ | 275 | 466 | 3.0 | 224.5 | 224.5 | 225.0 | 0.5 |
| B | 3,630 ¹ | 660 | 5,430 | 0.3 | 240.3 | 240.3 | 240.3 | 0.0 |
| C | 4,600 ¹ | 280 | 1,216 | 1.2 | 242.8 | 242.8 | 242.8 | 0.0 |
| D | 5,400 ¹ | 70 | 231 | 6.1 | 244.1 | 244.1 | 244.4 | 0.3 |
| E | 6,550 ¹ | 64 | 235 | 6.0 | 250.9 | 250.9 | 251.1 | 0.2 |
| F | 8,280 ¹ | 160 | 772 | 1.8 | 263.9 | 263.9 | 263.9 | 0.0 |
| Cheese Cake Brook | | | | | | | | |
| A | 5,742 ² | 30 | 183 | 4.4 | 35.3 | 35.3 | 36.3 | 1.0 |
| B | 5,892 ² | 30 | 166 | 4.8 | 35.5 | 35.5 | 36.5 | 1.0 |
| C | 6,202 ² | 30 | 187 | 4.3 | 37.7 | 37.7 | 37.7 | 0.0 |
| D | 6,578 ² | 30 | 202 | 4.0 | 38.6 | 38.6 | 38.6 | 0.0 |
| E | 7,158 ² | 30 | 164 | 4.9 | 38.6 | 38.6 | 39.0 | 0.4 |

¹ Feet above confluence with Nashua River

² Feet above confluence with Charles River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CATACCOONAMUG BROOK – CHEESE CAKE BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Cherry Brook | | | | | | | | |
| A | 106 | 35 | 94 | 7.4 | 108.8 | 105.1 ² | 106.1 | 1.0 |
| B | 317 | 27 | 101 | 6.9 | 108.8 | 106.4 ² | 106.9 | 0.5 |
| C | 950 | 153 | 582 | 1.2 | 108.8 | 107.6 ² | 108.6 | 1.0 |
| D | 1,848 | 54 | 136 | 5.1 | 111.9 | 111.9 | 112.7 | 0.8 |
| E | 2,059 | 37 | 211 | 3.3 | 117.0 | 117.0 | 117.0 | 0.0 |
| F | 2,746 | 20 | 72 | 9.7 | 127.4 | 127.4 | 127.5 | 0.1 |
| G | 3,326 | 207 | 1,017 | 0.7 | 128.9 | 128.9 | 129.9 | 1.0 |
| H | 4,118 | 34 | 124 | 5.6 | 131.3 | 131.3 | 132.0 | 0.7 |
| I | 4,910 | 56 | 338 | 2.1 | 133.6 | 133.6 | 134.5 | 0.9 |
| J | 5,069 | 20 | 316 | 2.2 | 137.1 | 137.1 | 137.1 | 0.0 |
| K | 5,650 | 17 | 164 | 4.3 | 137.1 | 137.1 | 137.5 | 0.4 |
| L | 7,022 | 75 | 693 | 1.0 | 137.2 | 137.2 | 138.2 | 1.0 |
| M | 7,814 | 190 | 1,610 | 0.4 | 137.2 | 137.2 | 138.2 | 1.0 |
| N | 8,712 | 140 | 927 | 0.8 | 137.3 | 137.3 | 138.3 | 1.0 |
| O | 9,715 | 70 | 328 | 2.1 | 138.0 | 138.0 | 138.9 | 0.9 |
| P | 10,930 | 80 | 891 | 0.6 | 140.9 | 140.9 | 140.9 | 0.0 |
| Q | 11,088 | 80 | 891 | 0.6 | 149.4 | 149.4 | 149.4 | 0.0 |
| R | 11,827 | 80 | 605 | 0.9 | 149.4 | 149.4 | 149.5 | 0.1 |
| S | 12,830 | 86 | 447 | 1.2 | 149.5 | 149.5 | 149.8 | 0.3 |
| T | 14,573 | 78 | 394 | 1.4 | 150.1 | 150.1 | 151.1 | 1.0 |
| U | 15,154 | 35 | 146 | 3.8 | 151.1 | 151.1 | 151.9 | 0.8 |
| V | 15,840 | 219 | 1,140 | 0.5 | 151.8 | 151.8 | 152.8 | 1.0 |
| W | 16,157 | 338 | 3,391 | 0.2 | 157.9 | 157.9 | 158.9 | 1.0 |
| X | 16,738 | 140 | 1,329 | 0.4 | 157.9 | 157.9 | 158.9 | 1.0 |
| Y | 17,002 | 120 | 1,033 | 0.5 | 157.9 | 157.9 | 158.9 | 1.0 |

¹ Feet above confluence with Stony Brook 1

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

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CHERRY BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Chester Brook | | | | | | | | |
| A | 1,954 | 63 | 113 | 5.2 | 39.7 | 36.6 ² | 36.6 | 0.0 |
| B | 3,142 | 30 | 155 | 3.8 | 39.7 | 38.8 ² | 39.1 | 0.3 |
| C | 3,221 | 21 | 139 | 4.2 | 39.7 | 39.7 | 40.1 | 0.4 |
| D | 3,543 | 26 | 176 | 3.3 | 40.1 | 40.1 | 40.1 | 0.0 |
| E | 3,648 | 22 | 152 | 3.8 | 40.1 | 40.1 | 40.1 | 0.0 |
| F | 3,992 | 21 | 106 | 5.5 | 40.5 | 40.5 | 40.9 | 0.4 |
| G | 4,261 | 19 | 100 | 5.8 | 41.3 | 41.3 | 41.3 | 0.0 |
| H | 4,409 | 27 | 280 | 2.1 | 44.0 | 44.0 | 44.0 | 0.0 |
| I | 4,673 | 57 | 495 | 1.2 | 44.1 | 44.1 | 44.1 | 0.0 |
| J | 5,116 | 43 | 391 | 1.5 | 44.1 | 44.1 | 44.1 | 0.0 |
| K | 5,465 | 22 | 136 | 3.0 | 44.1 | 44.1 | 44.2 | 0.1 |
| L | 5,766 | 22 | 49 | 8.2 | 45.7 | 45.7 | 45.8 | 0.1 |
| M | 5,887 | 19 | 73 | 5.5 | 49.8 | 49.8 | 50.0 | 0.2 |
| N | 6,162 | 28 | 98 | 4.2 | 50.5 | 50.5 | 50.6 | 0.1 |
| O | 6,262 | 159 | 97 | 8.7 | 60.9 | 60.9 | 60.9 | 0.0 |
| P | 6,711 | 50 | 95 | 4.2 | 69.2 | 69.2 | 69.2 | 0.0 |
| Q-AA* | * | * | * | * | * | * | * | * |
| AB | 11,083 | 125 | 111 | 3.6 | 138.3 | 138.3 | 138.3 | 0.0 |
| AC | 11,679 | 8 | 42 | 4.7 | 151.1 | 151.1 | 151.1 | 0.0 |
| AD | 11,822 | 16 | 71 | 2.8 | 151.1 | 151.1 | 151.7 | 0.6 |
| AE | 11,917 | 47 | 72 | 2.8 | 151.3 | 151.3 | 152.0 | 0.7 |
| AF | 12,075 | 49 | 44 | 4.5 | 153.7 | 153.7 | 153.7 | 0.0 |
| AG | 12,149 | 59 | 52 | 3.9 | 158.2 | 158.2 | 158.2 | 0.0 |
| AH | 13,628 | 9 | 62 | 3.2 | 190.2 | 190.2 | 190.3 | 0.1 |
| AI | 13,971 | 28 | 151 | 1.3 | 190.3 | 190.3 | 190.6 | 0.3 |
| AJ | 14,177 | 22 | 80 | 2.5 | 190.3 | 190.3 | 190.6 | 0.3 |
| AK | 14,351 | 17 | 30 | 6.6 | 193.8 | 193.8 | 193.8 | 0.0 |
| AL | 14,499 | 21 | 181 | 1.1 | 202.7 | 202.7 | 202.7 | 0.0 |

¹ Feet above confluence with Beaver Brook 1

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

* No data available

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CHESTER BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Chester Brook (continued) | | | | | | | | |
| AM | 14,942 ¹ | 19 | 171 | 1.2 | 202.8 | 202.8 | 202.8 | 0.0 |
| AN | 15,037 ¹ | 36 | 257 | 0.8 | 202.8 | 202.8 | 202.8 | 0.0 |
| AO | 15,228 ¹ | 14 | 98 | 2.0 | 202.8 | 202.8 | 202.8 | 0.0 |
| AP | 15,428 ¹ | 28 | 200 | 1.0 | 202.8 | 202.8 | 202.9 | 0.1 |
| AQ | 15,518 ¹ | 32 | 168 | 1.2 | 202.8 | 202.8 | 202.9 | 0.1 |
| AR | 15,602 ¹ | 26 | 121 | 1.6 | 202.8 | 202.8 | 202.9 | 0.1 |
| AS | 15,745 ¹ | 12 | 79 | 2.5 | 202.9 | 202.9 | 203.0 | 0.1 |
| AT | 15,845 ¹ | 23 | 130 | 1.5 | 202.9 | 202.9 | 203.1 | 0.2 |
| Chicken Brook | | | | | | | | |
| A | 576 ² | 26 | 107 | 3.8 | 223.8 | 223.8 | 224.8 | 1.0 |
| B | 713 ² | 8 | 59 | 5.1 | 226.6 | 226.6 | 227.0 | 0.4 |
| C | 1,272 ² | 101 | 87 | 0.7 | 227.0 | 227.0 | 228.0 | 1.0 |
| D | 1,690 ² | 35 | 180 | 2.0 | 227.2 | 227.2 | 228.2 | 1.0 |
| E | 1,848 ² | 15 | 116 | 2.6 | 229.3 | 229.3 | 229.7 | 0.4 |
| F | 2,070 ² | 15 | 97 | 3.1 | 229.3 | 229.3 | 230.0 | 0.7 |
| G | 2,175 ² | 25 | 189 | 1.6 | 230.9 | 230.9 | 231.2 | 0.3 |
| H | 2,878 ² | 13 | 83 | 3.6 | 230.9 | 230.9 | 231.3 | 0.4 |
| I | 3,675 ² | 30 | 188 | 1.6 | 232.2 | 232.2 | 232.8 | 0.6 |
| J | 4,087 ² | 25 | 203 | 1.5 | 232.2 | 232.2 | 233.0 | 0.8 |
| K | 4,282 ² | 25 | 191 | 1.6 | 232.6 | 232.6 | 233.2 | 0.6 |
| L | 5,201 ² | 25 | 192 | 1.6 | 232.7 | 232.7 | 233.6 | 0.9 |
| M | 5,328 ² | 15 | 91 | 3.3 | 234.1 | 234.1 | 234.4 | 0.3 |
| N | 5,755 ² | 33 | 123 | 2.4 | 234.6 | 234.6 | 235.6 | 1.0 |
| O | 5,935 ² | 12 | 91 | 3.3 | 238.8 | 238.8 | 238.8 | 0.0 |

¹ Feet above confluence with Beaver Brook 1

² Feet above county boundary, county boundary is approximately 4,192 feet downstream of Cross Street

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CHESTER BROOK – CHICKEN BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Chicken Brook (continued) | | | | | | | | |
| P | 6,341 | 12 | 74 | 4.0 | 239.0 | 239.0 | 239.8 | 0.8 |
| Q | 6,547 | 12 | 120 | 2.5 | 244.0 | 244.0 | 244.2 | 0.2 |
| R | 7,265 | 40 | 208 | 1.4 | 244.1 | 244.1 | 244.8 | 0.7 |
| S | 7,524 | 15 | 85 | 3.5 | 244.2 | 244.2 | 245.1 | 0.9 |
| T | 7,872 | 34 | 114 | 2.6 | 245.7 | 245.7 | 246.5 | 0.8 |
| U | 9,177 | 120 | 344 | 0.9 | 248.0 | 248.0 | 249.0 | 1.0 |
| V | 9,340 | 15 | 77 | 3.9 | 249.1 | 249.1 | 249.8 | 0.7 |
| W | 9,620 | 40 | 147 | 2.6 | 249.7 | 249.7 | 250.7 | 1.0 |
| X | 11,172 | 126 | 505 | 0.7 | 250.5 | 250.5 | 251.5 | 1.0 |
| Y | 12,551 | 49 | 206 | 1.4 | 251.2 | 251.2 | 252.2 | 1.0 |
| Z | 12,841 | 24 | 171 | 0.8 | 252.6 | 252.6 | 252.8 | 0.2 |
| AA | 13,892 | 24 | 74 | 1.9 | 253.1 | 253.1 | 253.3 | 0.2 |
| AB | 15,000 | 26 | 82 | 1.7 | 256.7 | 256.7 | 257.7 | 1.0 |
| AC | 17,002 | 35 | 102 | 1.4 | 266.7 | 266.7 | 267.6 | 0.9 |
| AD | 18,997 | 27 | 59 | 2.4 | 278.9 | 278.9 | 279.8 | 0.9 |

¹ Feet above county boundary, county boundary is approximately 4,192 feet downstream of Cross Street

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CHICKEN BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Cochituate Brook | | | | | | | | |
| A | 1,900 | 30 | 218 | 3.7 | 127.3 | 125.7 ² | 126.3 | 0.6 |
| B | 3,190 | 20 | 116 | 6.9 | 127.3 | 126.2 ² | 126.9 | 0.7 |
| Cold Brook | | | | | | | | |
| A | 9,215 | 58 | 196 | 0.4 | 121.2 | 119.9 ² | 120.9 | 1.0 |
| B | 9,775 | 28 | 73 | 0.9 | 121.2 | 120.0 ² | 121.0 | 1.0 |
| C | 10,785 | 33 | 61 | 1.3 | 121.4 | 121.4 | 122.2 | 0.8 |
| D | 11,380 | 23 | 56 | 1.4 | 122.7 | 122.7 | 123.6 | 0.9 |
| E | 12,500 | 45 | 68 | 1.2 | 125.7 | 125.7 | 126.6 | 0.9 |
| F | 13,010 | 12 | 17 | 4.8 | 129.8 | 129.8 | 130.6 | 0.8 |
| Cold Spring Brook | | | | | | | | |
| A | 1,335 | 302 | 921 | 1.4 | 180.5 | 177.8 ² | 178.8 | 1.0 |
| B | 1,945 | 697 | 6,351 | 0.2 | 180.5 | 178.8 ² | 179.8 | 1.0 |
| C | 11,650 | 30 | 71 | 6.0 | 224.2 | 224.2 | 225.0 | 0.8 |
| D | 12,450 | 35 | 116 | 3.7 | 235.9 | 235.9 | 236.6 | 0.7 |
| E | 13,850 | 260 | 1,395 | 0.3 | 237.8 | 237.8 | 238.6 | 0.8 |
| F | 14,860 | 380 | 1,722 | 0.2 | 237.8 | 237.8 | 238.6 | 0.8 |
| G | 15,365 | 225 | 1,282 | 0.3 | 237.8 | 237.8 | 238.6 | 0.8 |
| H | 16,525 | 40 | 187 | 2.3 | 238.9 | 238.9 | 239.6 | 0.7 |
| I | 17,880 | 215 | 1,089 | 0.4 | 243.0 | 243.0 | 243.0 | 0.0 |
| J | 18,835 | 55 | 351 | 1.2 | 251.8 | 251.8 | 251.8 | 0.0 |
| K | 20,115 | 45 | 277 | 1.5 | 251.8 | 251.8 | 251.8 | 0.0 |
| L | 21,040 | 440 | 3,801 | 0.1 | 260.8 | 260.8 | 260.8 | 0.0 |
| M | 21,350 | 55 | 152 | 2.8 | 261.0 | 261.0 | 261.1 | 0.1 |

¹ Feet above confluence with Sudbury River

² Elevation computed without consideration of backwater effects from Sudbury River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**COCHITUATE BROOK – COLD BROOK –
COLD SPRING BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Cold Spring Brook (continued) | | | | | | | | |
| N | 22,840 ¹ | 20 | 60 | 7.2 | 268.0 | 268.0 | 268.8 | 0.8 |
| O | 23,630 ¹ | 35 | 129 | 3.3 | 270.4 | 270.4 | 271.3 | 0.9 |
| P | 23,880 ¹ | 100 | 539 | 0.8 | 271.3 | 271.3 | 271.8 | 0.5 |
| Q | 24,740 ¹ | 65 | 282 | 1.5 | 271.4 | 271.4 | 271.9 | 0.5 |
| Cole's Brook | | | | | | | | |
| A | 150 ² | 10 | 40 | 12.3 | 128.8 | 128.8 | 128.8 | 0.0 |
| B | 200 ² | 30 | 210 | 2.6 | 132.0 | 132.0 | 132.9 | 0.9 |
| C | 1,850 ² | 20 | 60 | 9.7 | 137.9 | 137.9 | 137.9 | 0.0 |
| D | 1,920 ² | 20 | 130 | 4.0 | 141.8 | 141.8 | 142.1 | 0.3 |
| E | 1,980 ² | 110 | 490 | 1.1 | 142.0 | 142.0 | 142.4 | 0.4 |
| F | 2,060 ² | 170 | 1,440 | 0.4 | 146.2 | 146.2 | 146.8 | 0.6 |
| G | 3,050 ² | 110 | 450 | 1.2 | 146.2 | 146.2 | 146.8 | 0.6 |
| H | 3,160 ² | 190 | 1,430 | 0.4 | 149.8 | 149.8 | 150.7 | 0.9 |
| I | 4,910 ² | 100 | 480 | 0.8 | 149.8 | 149.8 | 150.7 | 0.9 |
| Collins Brook | | | | | | | | |
| A | 1,426 ³ | 100 | 258 | 0.5 | 80.5 | 80.5 | 80.9 | 0.4 |
| B | 2,534 ³ | 100 | 128 | 1.0 | 80.8 | 80.8 | 81.7 | 0.9 |
| C | 2,640 ³ | 85 | 477 | 0.3 | 85.9 | 85.9 | 85.9 | 0.0 |
| D | 4,382 ³ | 8 | 12 | 7.1 | 86.4 | 86.4 | 86.4 | 0.0 |

¹ Feet above confluence with Sudbury River

² Feet above confluence with Fort Pond Brook

³ Feet above confluence with Sutton Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**COLD SPRING BROOK – COLE'S BROOK –
COLLINS BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Conant Brook | | | | | | | | |
| A | 145 ¹ | 30 | 80 | 7.3 | 143.8 | 143.8 | 144.2 | 0.4 |
| B | 203 ¹ | 220 | 1,000 | 0.6 | 146.8 | 146.8 | 147.3 | 0.5 |
| C | 1,460 ¹ | 73 | 293 | 1.9 | 160.8 | 160.8 | 160.8 | 0.0 |
| D | 3,210 ¹ | 46 | 76 | 7.4 | 176.9 | 176.9 | 176.9 | 0.0 |
| E | 4,680 ¹ | 10 | 40 | 9.6 | 190.9 | 190.9 | 190.9 | 0.0 |
| F | 4,730 ¹ | 10 | 30 | 2.5 | 192.4 | 192.4 | 192.4 | 0.0 |
| G | 4,775 ¹ | 90 | 460 | 0.8 | 194.9 | 194.9 | 194.9 | 0.0 |
| H | 5,775 ¹ | 90 | 480 | 0.8 | 195.0 | 195.0 | 195.1 | 0.1 |
| I | 6,964 ¹ | 230 | 1,380 | 0.3 | 195.0 | 195.0 | 195.3 | 0.3 |
| Concord River | | | | | | | | |
| A | 950 ² | 120 | 1,247 | 4.8 | 65.9 | 60.5 ³ | 61.3 | 0.8 |
| B | 3,080 ² | 271 | 2,497 | 2.4 | 70.8 | 70.8 | 70.8 | 0.0 |
| C | 7,660 ² | 200 | 1,573 | 3.8 | 101.4 | 101.4 | 102.4 | 1.0 |
| D | 8,300 ² | 220 | 2,667 | 2.2 | 102.1 | 102.1 | 102.9 | 0.8 |
| E | 9,630 ² | 443 | 4,229 | 1.4 | 102.3 | 102.3 | 103.1 | 0.8 |
| F | 10,980 ² | 265 | 2,756 | 2.2 | 102.6 | 102.6 | 103.3 | 0.7 |
| G | 12,240 ² | 210 | 2,082 | 2.9 | 103.1 | 103.1 | 103.8 | 0.7 |
| H | 12,900 ² | 962 | 5,812 | 1.0 | 103.5 | 103.5 | 104.1 | 0.6 |
| I | 15,775 ² | 385 | 5,556 | 1.1 | 105.7 | 105.7 | 106.7 | 1.0 |
| J | 18,475 ² | 238 | 3,642 | 1.6 | 105.8 | 105.8 | 106.8 | 1.0 |
| K | 22,775 ² | 161 | 2,092 | 2.9 | 106.2 | 106.2 | 107.2 | 1.0 |

¹ Feet above confluence with Nashoba Brook

² Feet above confluence with Merrimack River

³ Elevation computed without consideration of backwater effects from Merrimack River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONANT BROOK – CONCORD RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Concord River (continued) | | | | | | | | |
| L | 23,325 | 217 | 3,155 | 1.9 | 106.4 | 106.4 | 107.4 | 1.0 |
| M | 23,865 | 95 | 740 | 8.1 | 107.7 | 107.7 | 107.7 | 0.0 |
| N | 25,395 | 190 | 2,634 | 2.1 | 114.0 | 114.0 | 115.0 | 1.0 |
| O | 26,775 | 220 | 1,559 | 3.6 | 114.2 | 114.2 | 115.2 | 1.0 |
| P | 27,770 | 134 | 1,662 | 3.4 | 115.0 | 115.0 | 115.7 | 0.7 |
| Q | 30,870 | 220 | 2,941 | 1.9 | 115.4 | 115.4 | 116.2 | 0.8 |
| R | 31,350 | 143 | 1,564 | 3.6 | 115.4 | 115.4 | 116.2 | 0.8 |
| S | 31,660 | 180 | 2,327 | 2.4 | 115.7 | 115.7 | 116.4 | 0.7 |
| T | 33,555 | 263 | 3,120 | 1.8 | 116.0 | 116.0 | 116.7 | 0.7 |
| U | 35,785 | 293 | 3,581 | 1.5 | 116.2 | 116.2 | 116.9 | 0.7 |
| V | 38,130 | 114 | 1,308 | 4.3 | 116.4 | 116.4 | 117.1 | 0.7 |
| W | 39,380 | 250 | 3,417 | 1.6 | 117.1 | 117.1 | 117.7 | 0.6 |
| X | 40,450 | 110 | 1,737 | 3.2 | 117.1 | 117.1 | 117.7 | 0.6 |
| Y | 41,900 | 167 | 1,883 | 2.9 | 117.4 | 117.4 | 118.0 | 0.6 |
| Z | 42,450 | 327 | 4,804 | 1.1 | 117.7 | 117.7 | 118.2 | 0.5 |
| AA | 48,160 | 139 | 1,924 | 2.9 | 118.2 | 118.2 | 118.9 | 0.7 |
| AB | 50,390 | 971 | 10,698 | 0.5 | 118.5 | 118.5 | 119.2 | 0.7 |
| AC | 50,980 | 885 | 5,580 | 1.0 | 118.5 | 118.5 | 119.2 | 0.7 |
| AD | 54,200 | 400 | 6,060 | 0.9 | 118.6 | 118.6 | 119.2 | 0.6 |
| AE | 59,005 | 290 | 4,533 | 1.2 | 118.7 | 118.7 | 119.3 | 0.6 |
| AF | 59,205 | 193 | 2,900 | 1.9 | 118.7 | 118.7 | 119.3 | 0.6 |
| AG | 61,945 | 1,730 | 19,520 | 0.3 | 118.8 | 118.8 | 119.7 | 0.9 |
| AH | 63,960 | 1,350 | 15,150 | 0.4 | 118.8 | 118.8 | 119.7 | 0.9 |
| AI | 66,370 | 760 | 10,140 | 0.6 | 118.8 | 118.8 | 119.7 | 0.9 |
| AJ | 70,330 | 440 | 7,000 | 0.8 | 118.8 | 118.8 | 119.7 | 0.9 |
| AK | 71,205 | 1,130 | 14,720 | 0.4 | 118.8 | 118.8 | 119.7 | 0.9 |
| AL | 72,560 | 2,050 | 23,790 | 0.2 | 118.8 | 118.8 | 119.8 | 1.0 |

¹ Feet above confluence with Merrimack River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONCORD RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Concord River (continued) | | | | | | | | |
| AM | 76,170 | 1,780 | 11,550 | 0.5 | 118.8 | 118.8 | 119.8 | 1.0 |
| AN | 77,970 | 1,100 | 14,430 | 0.4 | 118.9 | 118.9 | 119.8 | 0.9 |
| AO | 79,355 | 1,100 | 14,010 | 0.4 | 118.9 | 118.9 | 119.8 | 0.9 |
| AP | 80,765 | 200 | 2,620 | 2.2 | 118.9 | 118.9 | 119.8 | 0.9 |
| AQ | 81,240 | 120 | 1,590 | 3.6 | 118.9 | 118.9 | 119.8 | 0.9 |
| AR | 81,396 | 100 | 1,620 | 3.5 | 119.0 | 119.0 | 120.0 | 1.0 |
| AS | 82,186 | 500 | 6,400 | 0.9 | 119.3 | 119.3 | 120.3 | 1.0 |
| AT | 82,446 | 790 | 6,260 | 0.9 | 119.4 | 119.4 | 120.3 | 0.9 |
| AU | 83,756 | 1,000 | 15,000 | 0.4 | 119.4 | 119.4 | 120.4 | 1.0 |
| AV | 84,131 | 90 | 1,500 | 3.8 | 119.4 | 119.4 | 120.4 | 1.0 |
| AW | 84,276 | 200 | 3,560 | 1.6 | 119.6 | 119.6 | 120.5 | 0.9 |
| AX | 85,106 | 930 | 7,990 | 0.7 | 119.7 | 119.7 | 120.6 | 0.9 |

¹ Feet above confluence with Merrimack River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONCORD RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Content Brook/Middlesex Canal | | | | | | | | |
| A | 3,274 | 50 | 445 | 0.8 | 91.0 | 91.0 | 91.0 | 0.0 |
| B | 5,546 | 20 | 128 | 4.9 | 91.2 | 91.2 | 91.6 | 0.4 |
| C | 5,596 | 20 | 114 | 4.0 | 91.2 | 91.2 | 91.7 | 0.5 |
| D | 7,186 | 58 | 171 | 5.0 | 96.7 | 96.7 | 97.7 | 1.0 |
| E | 7,921 | 166 | 1,001 | 0.5 | 100.8 | 100.8 | 101.3 | 0.5 |
| F | 8,916 | 65 | 362 | 1.3 | 100.8 | 100.8 | 101.3 | 0.5 |
| G | 9,216 | 20 | 51 | 12.8 | 101.8 | 101.8 | 101.8 | 0.0 |
| H | 9,546 | 225 | 1,613 | 0.3 | 105.5 | 105.5 | 105.6 | 0.1 |
| I | 10,517 | 40 | 77 | 5.2 | 105.5 | 105.5 | 105.6 | 0.1 |
| J | 10,957 | 163 | 1,285 | 0.3 | 106.1 | 106.1 | 106.8 | 0.7 |
| K | 11,646 | 14 | 70 | 3.5 | 106.1 | 106.1 | 106.8 | 0.7 |
| L | 11,742 | 25 | 70 | 3.5 | 106.1 | 106.1 | 106.8 | 0.7 |
| M | 12,651 | 20 | 81 | 3.0 | 107.4 | 107.4 | 107.9 | 0.5 |
| N | 14,411 | 23 | 94 | 2.2 | 108.5 | 108.5 | 109.1 | 0.6 |
| O | 15,136 | 20 | 100 | 2.1 | 108.7 | 108.7 | 109.3 | 0.6 |
| P | 15,881 | 20 | 99 | 2.1 | 108.9 | 108.9 | 109.6 | 0.7 |

¹ Feet above confluence with Shawsheen River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

CONTENT BROOK / MIDDLESEX CANAL

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Course Brook | | | | | | | | |
| A | 0 ¹ | 50 | 123 | 3.5 | 144.0 | 144.0 | 144.0 | 0.0 |
| B | 422 ¹ | 50 | 201 | 2.1 | 144.3 | 144.3 | 145.2 | 0.9 |
| C | 686 ¹ | 100 | 444 | 1.0 | 147.5 | 147.5 | 147.7 | 0.2 |
| D | 1,109 ¹ | 100 | 303 | 1.4 | 147.6 | 147.6 | 147.9 | 0.3 |
| E | 1,531 ¹ | 50 | 268 | 1.4 | 150.4 | 150.4 | 150.9 | 0.5 |
| F | 1,584 ¹ | 50 | 290 | 1.3 | 150.5 | 150.5 | 151.3 | 0.8 |
| G | 2,218 ¹ | 99 | 408 | 0.9 | 150.6 | 150.6 | 151.5 | 0.9 |
| H | 2,640 ¹ | 100 | 454 | 0.8 | 150.9 | 150.9 | 151.7 | 0.8 |
| I | 2,851 ¹ | 50 | 304 | 1.2 | 153.9 | 153.9 | 153.9 | 0.0 |
| J | 3,326 ¹ | 50 | 315 | 1.2 | 154.0 | 154.0 | 154.2 | 0.2 |
| K | 3,907 ¹ | 50 | 272 | 1.4 | 154.0 | 154.0 | 154.5 | 0.5 |
| L | 4,330 ¹ | 50 | 293 | 1.3 | 154.0 | 154.0 | 154.8 | 0.8 |
| Cow Pond Brook | | | | | | | | |
| A | 420 ² | 30 | 89 | 6.4 | 181.2 | 181.2 | 181.2 | 0.0 |
| B | 1,630 ² | 100 | 589 | 1.0 | 186.9 | 186.9 | 186.9 | 0.0 |
| C | 3,225 ² | 50 | 208 | 2.8 | 187.7 | 187.7 | 188.2 | 0.5 |
| D | 4,830 ² | 150 | 676 | 0.8 | 191.5 | 191.5 | 191.7 | 0.2 |
| E | 7,315 ² | 65 | 246 | 2.3 | 194.4 | 194.4 | 195.2 | 0.8 |
| F | 8,650 ² | 495 | 2,318 | 0.2 | 196.4 | 196.4 | 196.8 | 0.4 |
| G | 10,785 ² | 255 | 1,147 | 0.5 | 196.5 | 196.5 | 196.9 | 0.4 |
| H | 12,985 ² | 620 | 12,891 | 0.0 | 197.6 | 197.6 | 198.1 | 0.5 |
| I | 14,725 ² | 145 | 492 | 0.2 | 197.6 | 197.6 | 198.1 | 0.5 |

¹ Feet above limit of detailed study, limit of detailed study is approximately 540 feet downstream of Coolidge Street

² Feet above limit of detailed study, limit of detailed study is approximately 4,140 feet downstream of Bridge Street

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

COURSE BROOK – COW POND BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|-----------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Cummings Brook | | | | | | | | |
| A | 460 ¹ | 25 [*] | 58 | 7.0 | 46.9 | 46.9 | 46.9 | 0.0 |
| B | 2,390 ¹ | 81 [*] | 167 | 2.4 | 56.1 | 56.1 | 56.5 | 0.4 |
| C | 3,980 ¹ | 18 | 26 | 5.2 | 67.1 | 67.1 | 67.1 | 0.0 |
| D | 4,440 ¹ | 36 | 157 | 0.9 | 77.8 | 77.8 | 77.8 | 0.0 |
| E | 5,110 ¹ | 14 | 27 | 5.4 | 78.9 | 78.9 | 78.9 | 0.0 |
| F | 6,110 ¹ | 22 | 32 | 3.5 | 87.4 | 87.4 | 87.4 | 0.0 |
| G | 6,980 ¹ | 17 | 27 | 3.4 | 91.6 | 91.6 | 91.6 | 0.0 |
| H | 7,350 ¹ | 24 | 46 | 2.0 | 94.6 | 94.6 | 94.6 | 0.0 |
| I | 7,540 ¹ | 46 | 64 | 1.4 | 96.7 | 96.7 | 96.7 | 0.0 |
| J | 7,730 ¹ | 51 | 128 | 0.7 | 96.8 | 96.8 | 96.8 | 0.0 |
| Danforth Brook | | | | | | | | |
| A | 290 ² | 36 | 147 | 3.1 | 204.9 | 203.5 ³ | 204.1 | 0.6 |
| B | 401 ² | 21 | 98 | 4.6 | 204.9 | 203.8 ³ | 204.1 | 0.3 |
| C | 512 ² | 43 | 189 | 2.4 | 204.9 | 204.1 ³ | 204.7 | 0.6 |
| D | 649 ² | 19 | 114 | 4.0 | 205.1 | 205.1 | 205.5 | 0.4 |
| E | 776 ² | 36 | 152 | 2.9 | 205.4 | 205.4 | 205.5 | 0.4 |
| F | 808 ² | 18 | 103 | 4.4 | 205.4 | 205.4 | 205.7 | 0.3 |
| G | 950 ² | 15 | 99 | 4.5 | 205.8 | 205.8 | 205.9 | 0.1 |
| H | 972 ² | 15 | 101 | 4.5 | 205.8 | 205.8 | 206.0 | 0.2 |
| I | 1,056 ² | 24 | 53 | 8.4 | 216.5 | 216.5 | 216.5 | 0.0 |
| J | 1,394 ² | 349 | 5,256 | 0.1 | 218.0 | 218.0 | 218.0 | 0.0 |
| K | 1,505 ² | 332 | 2,793 | 0.2 | 218.0 | 218.0 | 218.0 | 0.0 |
| L | 1,621 ² | 300 | 3,723 | 0.1 | 218.0 | 218.0 | 218.0 | 0.0 |
| M | 2,793 ² | 150 | 1,114 | 0.4 | 218.0 | 218.0 | 218.0 | 0.0 |
| N | 2,962 ² | 150 | 1,229 | 0.4 | 219.4 | 219.4 | 219.4 | 0.0 |

¹ Feet above confluence with Shakers Glen Brook

³ Elevation computed without consideration of coincident flow with Assabet River

² Feet above confluence with Assabet River

* The 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 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | CUMMINGS BROOK – DANFORTH BROOK | |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|----------------------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Danforth Brook (continued) | | | | | | | | |
| O | 3,089 ¹ | 295 | 2,276 | 0.2 | 219.4 | 219.4 | 219.4 | 0.0 |
| P | 4,192 ¹ | 19 | 48 | 9.1 | 219.4 | 219.4 | 219.4 | 0.0 |
| Q | 4,330 ¹ | 20 | 99 | 4.1 | 221.3 | 221.3 | 222.2 | 0.9 |
| R | 4,451 ¹ | 233 | 930 | 0.5 | 221.9 | 221.9 | 222.6 | 0.7 |
| S | 5,254 ¹ | 26 | 78 | 5.6 | 224.9 | 224.9 | 224.9 | 0.0 |
| T | 5,391 ¹ | 40 | 195 | 2.1 | 226.2 | 226.2 | 226.2 | 0.0 |
| U | 5,512 ¹ | 20 | 84 | 4.8 | 226.2 | 226.2 | 226.2 | 0.0 |
| V | 6,410 ¹ | 93 | 343 | 1.2 | 227.8 | 227.8 | 228.2 | 0.4 |
| W | 7,001 ¹ | 36 | 64 | 6.3 | 233.6 | 233.6 | 233.6 | 0.0 |
| X | 7,112 ¹ | 12 | 40 | 10.0 | 236.0 | 236.0 | 236.1 | 0.1 |
| Y | 7,244 ¹ | 15 | 45 | 8.9 | 240.5 | 240.5 | 240.5 | 0.0 |
| Z | 7,434 ¹ | 20 | 62 | 6.5 | 244.6 | 244.6 | 245.3 | 0.7 |
| AA | 7,582 ¹ | 60 | 295 | 1.2 | 248.5 | 248.5 | 248.6 | 0.1 |
| AB | 7,714 ¹ | 28 | 131 | 2.8 | 248.5 | 248.5 | 248.6 | 0.1 |
| AC | 8,485 ¹ | 12 | 36 | 10.0 | 260.6 | 260.6 | 260.6 | 0.0 |
| Darby Brook | | | | | | | | |
| A | 655 ² | 30 | 155 | 0.6 | 102.2 | 101.4 ³ | 101.5 | 0.1 |
| B | 1,119 ² | 10 | 48 | 1.9 | 103.3 | 102.5 ³ | 102.6 | 0.1 |
| C | 2,603 ² | 15 | 47 | 1.9 | 104.1 | 104.0 ³ | 104.1 | 0.1 |
| D | 3,833 ² | 5 | 19 | 4.8 | 111.6 | 111.6 | 111.6 | 0.0 |
| E | 4,467 ² | 20 | 109 | 0.8 | 114.8 | 114.8 | 115.4 | 0.6 |
| F | 4,731 ² | 20 | 76 | 1.2 | 114.9 | 114.9 | 115.5 | 0.6 |
| G | 5,201 ² | 20 | 70 | 1.3 | 114.9 | 114.9 | 115.7 | 0.8 |

¹ Feet above confluence with Assabet River

² Feet above confluence with Marshall Brook

³ Elevation computed without consideration of coincident flooding effects from Marshall Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

DANFORTH BROOK – DARBY BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Davis Brook | | | | | | | | |
| A | 422 | 281 | 1,498 | 0.2 | 121.0 | 121.0 | 121.0 | 0.0 |
| B | 623 | 11 | 60 | 3.8 | 121.0 | 121.0 | 121.0 | 0.0 |
| C | 1,146 | 8 | 23 | 9.8 | 127.6 | 127.6 | 127.6 | 0.0 |
| D | 1,246 | 8 | 42 | 5.5 | 131.7 | 131.7 | 131.7 | 0.0 |
| E | 1,341 | 82 | 286 | 0.8 | 132.0 | 132.0 | 132.2 | 0.2 |
| F | 2,445 | 48 | 140 | 1.6 | 132.5 | 132.5 | 133.1 | 0.6 |
| G | 2,545 | 91 | 459 | 0.5 | 134.8 | 134.8 | 135.4 | 0.6 |
| H | 2,645 | 20 | 55 | 4.1 | 134.8 | 134.8 | 135.4 | 0.6 |
| I | 2,925 | 120 | 600 | 0.4 | 135.0 | 135.0 | 135.7 | 0.7 |
| J | 3,025 | 86 | 400 | 0.6 | 137.1 | 137.1 | 137.8 | 0.7 |
| K | 3,120 | 83 | 259 | 0.9 | 137.1 | 137.1 | 137.8 | 0.7 |
| L | 3,965 | 147 | 502 | 0.5 | 137.3 | 137.3 | 138.1 | 0.8 |
| M | 4,066 | 10 | 50 | 4.6 | 137.3 | 137.3 | 138.1 | 0.8 |
| N | 4,203 | 10 | 74 | 3.1 | 138.1 | 138.1 | 139.1 | 1.0 |
| O | 4,324 | 50 | 204 | 1.1 | 138.4 | 138.4 | 139.3 | 0.9 |
| P | 4,483 | 39 | 162 | 1.4 | 138.4 | 138.4 | 139.3 | 0.9 |
| Q | 4,594 | 79 | 372 | 0.6 | 139.5 | 139.5 | 140.4 | 0.9 |
| R | 4,704 | 15 | 103 | 2.2 | 139.5 | 139.5 | 140.4 | 0.9 |
| S | 5,803 | 243 | 674 | 0.3 | 139.7 | 139.7 | 140.6 | 0.9 |
| T | 6,864 | 184 | 545 | 0.4 | 139.8 | 139.8 | 140.7 | 0.9 |
| U | 7,904 | 143 | 405 | 0.6 | 139.9 | 139.9 | 140.9 | 1.0 |

¹ Feet above confluence with Charles River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

DAVIS BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Dirty Meadow Brook | | | | | | | | |
| A | 79 | 50 | 113 | 3.0 | 149.0 | 145.0 ² | 145.2 | 0.2 |
| B | 517 | 128 | 371 | 0.9 | 149.0 | 145.8 ² | 146.8 | 1.0 |
| C | 818 | 10 | 72 | 4.7 | 149.6 | 149.6 | 150.0 | 0.4 |
| D | 1,515 | 163 | 655 | 0.5 | 149.7 | 149.7 | 150.7 | 1.0 |
| E | 2,318 | 80 | 217 | 1.6 | 151.3 | 151.3 | 152.3 | 1.0 |
| Dopping Brook | | | | | | | | |
| A | 333 | 200 | 248 | 1.5 | 152.9 | 148.7 ² | 148.7 | 0.0 |
| B | 2,133 | 150 | 379 | 0.9 | 152.9 | 151.3 ² | 152.1 | 0.8 |
| C | 3,633 | 85 | 32 | 1.3 | 153.4 | 153.4 | 154.0 | 0.6 |
| D | 3,796 | 85 | 45 | 2.3 | 154.2 | 154.2 | 154.5 | 0.3 |
| E | 5,005 | 20 | * | * | 158.7 | * | * | * |
| F | 5,064 | 30 | 103 | 2.3 | 159.1 | 159.1 | 159.1 | 0.0 |
| G | 5,164 | 23 | 53 | 4.5 | 159.2 | 159.2 | 159.3 | 0.1 |
| H | 5,306 | 60 | 241 | 1.0 | 162.7 | 162.7 | 162.7 | 0.0 |
| I | 6,003 | 60 | 229 | 1.0 | 162.8 | 162.8 | 163.2 | 0.4 |
| J | 6,721 | 60 | 279 | 0.9 | 162.9 | 162.9 | 163.7 | 0.8 |
| K | 6,853 | 60 | 261 | 0.9 | 163.0 | 163.0 | 163.8 | 0.8 |
| L | 7,007 | 60 | 288 | 0.8 | 163.4 | 163.4 | 163.9 | 0.5 |

¹ Feet above confluence with Bogastow Brook

² Elevation computed without consideration of backwater effects from Bogastow Brook

* No data available

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

DIRTY MEADOW BROOK – DOPPING BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Dudley Brook/Tributary A to Dudley Brook | | | | | | | | |
| A | 1,300 ¹ | 30 | 79 | 2.3 | 138.5 | 137.8 ³ | 138.7 | 0.9 |
| B | 1,960 ¹ | 13 | 25 | 7.5 | 141.8 | 141.8 | 142.1 | 0.3 |
| C | 3,220 ¹ | 265 | 1,479 | 0.1 | 148.2 | 148.2 | 148.2 | 0.0 |
| D | 3,910 ¹ | 165 | 976 | 0.2 | 148.2 | 148.2 | 148.2 | 0.0 |
| E | 6,285 ¹ | 100 | 320 | 0.6 | 152.4 | 152.4 | 153.0 | 0.6 |
| F | 7,793 ¹ | 330 | 1,204 | 0.2 | 154.4 | 154.4 | 154.5 | 0.1 |
| G-L* | | | | | | | | |
| East Outlet | | | | | | | | |
| A | 1,720 ² | 50 | 189 | 1.3 | 158.0 | 158.0 | 159.0 | 1.0 |
| B | 5,340 ² | 25 | 47 | 2.6 | 167.6 | 167.6 | 168.6 | 1.0 |
| C | 5,900 ² | 45 | 43 | 2.2 | 183.5 | 183.5 | 184.5 | 1.0 |

¹ Feet above confluence with Hop Brook

² Feet above confluence with Sudbury River

³ Elevation computed without consideration of backwater effects from Hop Brook

* No data available

| | | |
|----------------|---|--|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | | DUDLEY BROOK/TRIBUTARY A TO DUDLEY BROOK- EAST OUTLET |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Elizabeth Brook 1 | | | | | | | | |
| A | 7,291 | 172 | 954 | 1.1 | 188.0 | 188.0 | 189.0 | 1.0 |
| B | 8,601 | 41 | 164 | 5.9 | 188.7 | 188.7 | 189.1 | 0.4 |
| C | 8,775 | 41 | 187 | 5.1 | 191.4 | 191.4 | 191.4 | 0.0 |
| D | 8,876 | 67 | 336 | 2.9 | 191.8 | 191.8 | 191.8 | 0.0 |
| E | 8,976 | 237 | 1,673 | 0.6 | 195.8 | 195.8 | 195.8 | 0.0 |
| F | 9,076 | 226 | 1,706 | 0.6 | 195.8 | 195.8 | 195.8 | 0.0 |
| G | 10,175 | 57 | 187 | 4.9 | 195.8 | 195.8 | 195.8 | 0.0 |
| H | 10,275 | 18 | 109 | 8.4 | 196.2 | 196.2 | 196.3 | 0.1 |
| I | 10,322 | 64 | 273 | 3.4 | 197.8 | 197.8 | 197.8 | 0.0 |
| J | 10,776 | 82 | 389 | 2.3 | 198.1 | 198.1 | 198.4 | 0.3 |
| K | 12,667 | 84 | 432 | 2.0 | 199.0 | 199.0 | 199.6 | 0.6 |
| L | 12,825 | 77 | 368 | 2.2 | 200.2 | 200.2 | 200.5 | 0.3 |
| M | 13,374 | 109 | 701 | 1.1 | 200.3 | 200.3 | 200.6 | 0.3 |
| N | 13,475 | 126 | 870 | 0.9 | 206.8 | 206.8 | 206.8 | 0.0 |
| O | 13,575 | 343 | 1,612 | 0.5 | 206.8 | 206.8 | 206.8 | 0.0 |
| P | 15,513 | 107 | 266 | 2.6 | 207.5 | 207.5 | 207.5 | 0.0 |
| Q | 15,613 | 268 | 1,532 | 0.4 | 207.6 | 207.6 | 207.6 | 0.0 |
| R | 18,443 | 33 | 75 | 8.6 | 207.8 | 207.8 | 207.8 | 0.0 |
| S | 20,666 | 59 | 238 | 2.5 | 213.6 | 213.6 | 214.6 | 1.0 |
| T | 20,867 | 35 | 119 | 4.9 | 214.0 | 214.0 | 214.8 | 0.8 |
| U | 20,967 | 17 | 73 | 8.0 | 214.6 | 214.6 | 214.9 | 0.3 |
| V | 21,764 | 44 | 249 | 2.3 | 215.8 | 215.8 | 216.4 | 0.6 |
| W | 25,106 | 73 | 185 | 2.6 | 217.2 | 217.2 | 217.8 | 0.6 |
| X | 25,307 | 47 | 221 | 2.2 | 218.6 | 218.6 | 218.6 | 0.0 |
| Y | 27,482 | 83 | 200 | 1.9 | 219.1 | 219.1 | 219.3 | 0.2 |
| Z | 27,683 | 40 | 158 | 2.3 | 219.5 | 219.5 | 219.6 | 0.1 |

¹ Feet above confluence with Assabet River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ELIZABETH BROOK 1

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Elizabeth Brook 2 | | | | | | | | |
| A | 265 ¹ | 14 | 25 | 7.7 | 247.0 | 247.0 | 247.0 | 0.0 |
| B | 1,225 ¹ | 231 | 413 | 0.5 | 248.8 | 248.8 | 249.4 | 0.6 |
| C | 2,430 ¹ | 88 | 372 | 0.5 | 248.9 | 248.9 | 249.5 | 0.6 |
| D | 2,657 ¹ | 49 | 174 | 1.1 | 252.9 | 252.9 | 252.9 | 0.0 |
| E | 3,937 ¹ | 35 | 158 | 1.2 | 253.1 | 253.1 | 253.3 | 0.2 |
| F | 4,807 ¹ | 56 | 131 | 1.2 | 253.3 | 253.3 | 253.6 | 0.3 |
| G | 5,732 ¹ | 43 | 48 | 3.2 | 256.3 | 256.3 | 256.7 | 0.4 |
| H | 5,919 ¹ | 56 | 386 | 0.4 | 264.8 | 264.8 | 264.9 | 0.1 |
| I | 6,010 ¹ | 102 | 741 | 0.2 | 264.8 | 264.8 | 264.9 | 0.1 |
| J | 6,575 ¹ | 26 | 56 | 2.2 | 264.8 | 264.8 | 264.9 | 0.1 |
| K | 6,615 ¹ | 31 | 33 | 3.6 | 266.3 | 266.3 | 266.3 | 0.0 |
| L | 7,044 ¹ | 11 | 28 | 4.3 | 267.6 | 267.6 | 268.0 | 0.4 |
| M | 7,244 ¹ | 49 | 220 | 0.5 | 271.2 | 271.2 | 271.5 | 0.3 |
| N | 8,774 ¹ | 7 | 17 | 6.9 | 271.3 | 271.3 | 271.6 | 0.3 |
| Elm Brook | | | | | | | | |
| A | 370 ² | 98 | 569 | 0.8 | 112.2 | 112.2 | 112.7 | 0.5 |
| B | 787 ² | 19 | 135 | 2.6 | 112.2 | 112.2 | 112.8 | 0.6 |
| C | 1,030 ² | 23 | 160 | 2.2 | 112.5 | 112.5 | 113.2 | 0.7 |
| D | 1,600 ² | 80 | 339 | 1.3 | 112.6 | 112.6 | 113.4 | 0.8 |
| E | 2,450 ² | 42 | 239 | 1.5 | 112.7 | 112.7 | 113.6 | 0.9 |
| F | 2,624 ² | 42 | 209 | 2.0 | 112.7 | 112.7 | 113.6 | 0.9 |
| G | 3,015 ² | 26 | 156 | 2.3 | 114.4 | 114.4 | 114.6 | 0.2 |
| H | 3,596 ² | 42 | 233 | 1.5 | 114.4 | 114.4 | 114.8 | 0.4 |
| I | 3,823 ² | 16 | 98 | 3.6 | 115.0 | 115.0 | 115.2 | 0.2 |
| J | 4,483 ² | 38 | 245 | 1.5 | 115.0 | 115.0 | 115.7 | 0.7 |
| K | 4,916 ² | 20 | 117 | 3.0 | 115.3 | 115.3 | 115.9 | 0.6 |

¹ Feet above county boundary, county boundary is approximately 480 feet upstream of Eldridge Road

² Feet above confluence with Shawsheen River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ELIZABETH BROOK 2 – ELM BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Elm Brook (continued) | | | | | | | | |
| L | 6,283 ¹ | 29 | 187 | 1.9 | 115.4 | 115.4 | 116.3 | 0.9 |
| M | 7,725 ¹ | 40 | 192 | 1.9 | 115.8 | 115.8 | 116.7 | 0.9 |
| N | 9,277 ¹ | 98 | 419 | 1.2 | 116.3 | 116.3 | 117.3 | 1.0 |
| O | 10,375 ¹ | 56 | 232 | 2.1 | 116.7 | 116.7 | 117.7 | 1.0 |
| P | 10,618 ¹ | 138 | 483 | 1.2 | 119.2 | 119.2 | 119.2 | 0.0 |
| Q | 11,817 ¹ | 26 | 137 | 4.6 | 119.6 | 119.6 | 119.6 | 0.0 |
| R | 12,873 ¹ | 26 | 83 | 4.3 | 120.9 | 120.9 | 121.3 | 0.4 |
| S | 13,490 ¹ | 78 | 214 | 3.4 | 122.2 | 122.2 | 123.0 | 0.8 |
| Farrar Pond / Pole Brook | | | | | | | | |
| A | 375 ² | 210 | 1,960 | 0.1 | 121.2 | 121.2 | 122.2 | 1.0 |
| B | 5,380 ² | 20 | 21 | 4.3 | 133.3 | 133.3 | 133.5 | 0.2 |
| C | 5,875 ² | 4 | 8 | 8.2 | 147.5 | 147.5 | 147.5 | 0.0 |
| D | 6,220 ² | 20 | 86 | 0.8 | 156.8 | 156.8 | 156.8 | 0.0 |
| E | 6,595 ² | 20 | 41 | 1.6 | 159.7 | 159.7 | 160.0 | 0.3 |
| F | 6,865 ² | 20 | 37 | 1.8 | 160.5 | 160.5 | 161.4 | 0.9 |
| G | 7,170 ² | 40 | 78 | 0.8 | 161.1 | 161.1 | 162.0 | 0.9 |
| H | 8,690 ² | 20 | 41 | 1.6 | 162.4 | 162.4 | 163.2 | 0.8 |

¹ Feet above confluence with Shawsheen River

² Feet above confluence with Sudbury River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

ELM BROOK – FARRAR POND / POLE BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Farrar Pond Brook | | | | | | | | |
| A | 200 ¹ | 20 | 72 | 1.2 | 121.2 | 121.2 ³ | 121.2 | 0.0 |
| B | 455 ¹ | 13 | 77 | 1.1 | 124.2 | 124.2 | 124.2 | 0.0 |
| C | 625 ¹ | 5 | 19 | 4.5 | 124.2 | 124.2 | 124.2 | 0.0 |
| D | 880 ¹ | 7 | 34 | 2.5 | 128.5 | 128.5 | 128.7 | 0.2 |
| E | 1,150 ¹ | 6 | 32 | 2.6 | 128.5 | 128.5 | 129.3 | 0.8 |
| F | 1,975 ¹ | 30 | 107 | 0.8 | 137.3 | 137.3 | 137.3 | 0.0 |
| G | 2,300 ¹ | 20 | 68 | 1.2 | 142.7 | 142.7 | 142.7 | 0.0 |
| H | 2,645 ¹ | 4 | 10 | 8.5 | 163.3 | 163.3 | 163.3 | 0.0 |
| Fort Meadow Brook | | | | | | | | |
| A | 2,318 ² | 200 | 370 | 1.5 | 180.9 | 177.7 ⁴ | 178.7 | 1.0 |
| B | 3,416 ² | 270 | 495 | 1.0 | 180.9 | 179.7 ⁴ | 180.0 | 0.3 |
| C | 3,548 ² | 119 | 744 | 0.7 | 184.5 | 184.5 | 184.5 | 0.0 |
| D | 3,670 ² | 116 | 650 | 0.9 | 184.5 | 184.5 | 184.6 | 0.1 |
| E | 4,076 ² | 51 | 156 | 2.9 | 184.6 | 184.6 | 184.7 | 0.1 |
| F | 4,219 ² | 30 | 78 | 5.8 | 184.9 | 184.9 | 185.3 | 0.4 |
| G | 4,340 ² | 85 | 305 | 1.5 | 185.9 | 185.9 | 186.1 | 0.2 |
| H | 5,539 ² | 34 | 60 | 7.5 | 193.1 | 193.1 | 193.1 | 0.0 |
| I | 5,660 ² | 80 | 127 | 3.5 | 194.5 | 194.5 | 194.6 | 0.1 |
| J | 5,771 ² | 15 | 45 | 9.9 | 194.9 | 194.9 | 195.0 | 0.1 |
| K | 6,912 ² | 85 | 251 | 1.7 | 199.0 | 199.0 | 200.0 | 1.0 |
| L | 7,133 ² | 28 | 124 | 3.5 | 199.3 | 199.3 | 200.1 | 0.8 |
| M | 7,413 ² | 55 | 113 | 3.9 | 199.8 | 199.8 | 200.4 | 0.6 |
| N | 8,453 ² | 25 | 55 | 7.8 | 206.4 | 206.4 | 206.4 | 0.0 |
| O | 9,652 ² | 59 | 233 | 1.8 | 209.7 | 209.7 | 210.6 | 0.9 |
| P | 10,222 ² | 20 | 73 | 5.9 | 211.0 | 211.0 | 211.5 | 0.5 |

¹ Feet above confluence with Farrar Pond

² Feet above confluence with Assabet River

³ Elevation computed without consideration of backwater effects from Farrar Pond

⁴ Elevation computed without consideration of backwater effects from Assabet River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FARRAR POND BROOK – FORT MEADOW BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Fort Meadow Brook (continued) | | | | | | | | |
| Q | 10,328 ¹ | 30 | 127 | 3.4 | 213.7 | 213.7 | 213.7 | 0.0 |
| R | 10,444 ¹ | 40 | 134 | 3.2 | 213.9 | 213.9 | 214.0 | 0.1 |
| S | 11,341 ¹ | 18 | 47 | 9.2 | 225.4 | 225.4 | 225.4 | 0.0 |
| T | 12,603 ¹ | 95 | 310 | 1.4 | 229.2 | 229.2 | 230.1 | 0.9 |
| U | 13,343 ¹ | 45 | 71 | 5.8 | 231.5 | 231.5 | 231.5 | 0.0 |
| V | 13,459 ¹ | 196 | 863 | 0.5 | 233.9 | 233.9 | 234.0 | 0.1 |
| W | 13,570 ¹ | 15 | 44 | 9.8 | 234.4 | 234.4 | 234.4 | 0.0 |
| X | 14,113 ¹ | 15 | 41 | 7.0 | 250.7 | 250.7 | 250.9 | 0.2 |
| Y | 14,224 ¹ | 15 | 62 | 4.6 | 254.0 | 254.0 | 254.0 | 0.0 |
| Z | 14,340 ¹ | 10 | 31 | 9.4 | 255.6 | 255.6 | 256.3 | 0.7 |
| AA | 14,557 ¹ | 13 | 32 | 9.0 | 261.6 | 261.6 | 262.1 | 0.5 |
| AB | 14,562 ¹ | 22 | 60 | 4.8 | 261.8 | 261.8 | 262.6 | 0.8 |
| Fort Pond Brook | | | | | | | | |
| A | 235 ² | 40 | 209 | 4.7 | 122.8 | 122.4 ³ | 123.4 | 1.0 |
| B | 435 ² | 26 | 121 | 8.1 | 122.8 | 122.6 ³ | 123.4 | 0.9 |
| C | 875 ² | 130 | 600 | 1.6 | 124.6 | 124.6 | 125.5 | 0.9 |
| D | 2,475 ² | 160 | 810 | 1.2 | 125.5 | 125.5 | 126.4 | 0.9 |
| E | 4,075 ² | 170 | 940 | 1.0 | 126.0 | 126.0 | 126.9 | 0.9 |
| F | 6,175 ² | 160 | 950 | 1.0 | 126.2 | 126.2 | 127.2 | 1.0 |
| G | 7,575 ² | 60 | 330 | 3.0 | 126.4 | 126.4 | 127.4 | 1.0 |
| H | 7,625 ² | 60 | 380 | 2.6 | 127.5 | 127.5 | 128.3 | 0.8 |
| I | 9,125 ² | 30 | 150 | 6.8 | 129.2 | 129.2 | 129.7 | 0.5 |
| J | 10,675 ² | 50 | 360 | 2.7 | 131.0 | 131.0 | 132.0 | 1.0 |
| K | 12,125 ² | 90 | 470 | 2.1 | 131.7 | 131.7 | 132.6 | 0.9 |
| L | 13,025 ² | 40 | 210 | 4.8 | 132.6 | 132.6 | 133.2 | 0.6 |

¹ Feet above confluence with Assabet River

² Feet above confluence with Nashoba Brook

³ Elevation computed without consideration of backwater effects from Nashoba Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FORT MEADOW BROOK – FORT POND BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Fort Pond Brook (continued) | | | | | | | | |
| M | 13,150 | 75 | 460 | 2.1 | 135.7 | 135.7 | 136.5 | 0.8 |
| N | 14,250 | 55 | 300 | 3.2 | 136.1 | 136.1 | 136.8 | 0.7 |
| O | 14,320 | 50 | 370 | 2.7 | 139.7 | 139.7 | 140.3 | 0.6 |
| P | 14,870 | 35 | 100 | 9.6 | 141.3 | 141.3 | 141.3 | 0.0 |
| Q | 15,000 | 120 | 491 | 2.0 | 149.8 | 149.8 | 149.8 | 0.0 |
| R | 15,070 | 90 | 322 | 3.0 | 149.9 | 149.9 | 149.9 | 0.0 |
| S | 15,300 | 20 | 168 | 5.7 | 149.9 | 149.9 | 150.9 | 1.0 |
| T | 15,650 | 50 | 350 | 2.8 | 150.8 | 150.8 | 151.4 | 0.6 |
| U | 16,500 | 30 | 96 | 10.0 | 153.1 | 153.1 | 153.1 | 0.0 |
| V | 16,550 | 30 | 153 | 6.3 | 155.5 | 155.5 | 155.9 | 0.4 |
| W | 17,050 | 40 | 105 | 9.2 | 158.1 | 158.1 | 158.1 | 0.0 |
| X | 17,750 | 60 | 166 | 5.8 | 164.3 | 164.3 | 164.3 | 0.0 |
| Y | 18,720 | 110 | 770 | 1.3 | 175.3 | 175.3 | 175.3 | 0.0 |
| Z | 19,320 | 90 | 100 | 9.7 | 175.5 | 175.5 | 175.5 | 0.0 |
| AA | 19,530 | 50 | 310 | 3.1 | 179.8 | 179.8 | 179.8 | 0.0 |
| AB | 19,780 | 60 | 320 | 3.0 | 180.0 | 180.0 | 180.0 | 0.0 |
| AC | 20,890 | 100 | 560 | 1.7 | 193.8 | 193.8 | 193.8 | 0.0 |
| AD | 22,115 | 20 | 130 | 7.6 | 194.4 | 194.4 | 195.0 | 0.6 |
| AE | 22,160 | 80 | 370 | 2.6 | 197.5 | 197.5 | 198.5 | 1.0 |
| AF | 22,575 | 210 | 970 | 1.0 | 197.7 | 197.7 | 198.7 | 1.0 |
| AG | 22,990 | 170 | 1,080 | 0.9 | 197.8 | 197.8 | 198.8 | 1.0 |
| AH | 23,120 | 280 | 1,450 | 0.7 | 198.1 | 198.1 | 199.0 | 0.9 |
| AI | 25,850 | 620 | 4,160 | 0.2 | 198.3 | 198.3 | 199.1 | 0.8 |
| AJ | 28,300 | 340 | 2,130 | 0.3 | 198.3 | 198.3 | 199.1 | 0.8 |
| AK | 28,950 | 550 | 2,930 | 0.2 | 198.3 | 198.3 | 199.2 | 0.9 |
| AL | 30,875 | 30 | 270 | 2.3 | 198.4 | 198.4 | 199.2 | 0.8 |
| AM | 30,970 | 30 | 270 | 2.3 | 199.9 | 199.9 | 200.7 | 0.8 |

¹ Feet above confluence with Nashoba Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FORT POND BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Fort Pond Brook (continued) | | | | | | | | |
| AN | 31,674 | 30 | 280 | 2.2 | 200.1 | 200.1 | 200.8 | 0.7 |
| AO | 31,820 | 40 | 300 | 2.1 | 201.2 | 201.2 | 201.7 | 0.5 |
| AP | 32,135 | 350 | 670 | 0.9 | 201.3 | 201.3 | 201.8 | 0.5 |
| AQ | 32,850 | 510 | 2,150 | 0.3 | 201.4 | 201.4 | 201.9 | 0.5 |
| AR | 34,300 | 760 | 4,130 | 0.1 | 201.4 | 201.4 | 201.9 | 0.5 |
| AS | 35,565 | 380 | 1,670 | 0.4 | 201.4 | 201.4 | 201.9 | 0.5 |
| AT | 35,700 | 220 | 910 | 0.7 | 202.5 | 202.5 | 203.0 | 0.5 |
| AU | 37,420 | 120 | 500 | 1.1 | 202.8 | 202.8 | 203.2 | 0.4 |
| AV | 37,575 | 80 | 420 | 1.3 | 202.8 | 202.8 | 203.3 | 0.5 |
| AW | 37,710 | 160 | 860 | 0.7 | 204.7 | 204.7 | 205.5 | 0.8 |
| AX | 40,010 | 20 | 110 | 5.0 | 205.0 | 205.0 | 205.8 | 0.8 |
| AY | 40,110 | 20 | 130 | 4.3 | 206.1 | 206.1 | 206.8 | 0.7 |
| AZ | 40,270 | 175 | 1,056 | 0.7 | 206.1 | 206.1 | 207.1 | 1.0 |
| BA | 40,380 | 160 | 515 | 1.5 | 206.2 | 206.2 | 207.2 | 1.0 |
| BB | 40,855 | 200 | 1,134 | 0.7 | 206.4 | 206.4 | 207.4 | 1.0 |
| BC | 41,585 | 310 | 1,751 | 0.2 | 206.4 | 206.4 | 207.4 | 1.0 |
| BD | 41,695 | 220 | 1,152 | 0.2 | 206.4 | 206.4 | 207.4 | 1.0 |
| BE | 42,025 | 214 | 1,021 | 0.3 | 206.4 | 206.4 | 207.4 | 1.0 |
| BF | 42,165 | 192 | 1,614 | 0.2 | 206.5 | 206.5 | 207.5 | 1.0 |
| BG | 42,675 | 190 | 1,593 | 0.2 | 206.5 | 206.5 | 207.5 | 1.0 |
| BH | 42,985 | 150 | 799 | 0.4 | 206.5 | 206.5 | 207.5 | 1.0 |
| BI | 43,085 | 150 | 689 | 0.4 | 206.6 | 206.6 | 207.6 | 1.0 |
| BJ | 43,825 | 150 | 732 | 0.4 | 206.6 | 206.6 | 207.6 | 1.0 |
| BK | 44,535 | 150 | 729 | 0.4 | 206.6 | 206.6 | 207.6 | 1.0 |
| BL | 44,790 | 175 | 887 | 0.2 | 207.1 | 207.1 | 208.1 | 1.0 |
| BM | 45,540 | 163 | 647 | 0.3 | 207.1 | 207.1 | 208.1 | 1.0 |
| BN | 45,645 | 141 | 789 | 0.2 | 207.3 | 207.3 | 208.3 | 1.0 |
| BO | 46,543 | 115 | 610 | 0.3 | 207.3 | 207.3 | 208.3 | 1.0 |

¹ Feet above confluence with Nashoba Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

FORT POND BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Fort Pond Brook Branch 1 | | | | | | | | |
| A | 8,327 | 32 | 67 | 1.2 | 197.6 | 197.6 | 198.5 | 0.9 |
| B | 8,427 | 82 | 181 | 0.4 | 198.7 | 198.7 | 198.8 | 0.1 |
| C | 8,585 | 30 | 23 | 3.6 | 198.9 | 198.9 | 199.3 | 0.4 |
| D | 8,686 | 165 | 912 | 0.1 | 203.7 | 203.7 | 203.8 | 0.1 |
| E | 8,812 | 135 | 567 | 0.1 | 203.7 | 203.7 | 203.8 | 0.1 |
| F | 9,726 | 291 | 800 | 0.1 | 203.8 | 203.8 | 203.8 | 0.0 |
| G | 10,761 | 16 | 40 | 2.0 | 203.8 | 203.8 | 203.8 | 0.0 |
| H | 11,246 | 15 | 42 | 1.9 | 204.3 | 204.3 | 204.6 | 0.3 |
| Fort Pond Brook Branch 2 | | | | | | | | |
| A | 0 | 155 | 462 | 0.6 | 207.1 | 207.1 | 208.1 | 1.0 |
| B | 1,003 | 114 | 446 | 0.6 | 207.2 | 207.2 | 208.2 | 1.0 |
| C | 1,162 | 49 | 301 | 0.9 | 209.8 | 209.8 | 209.9 | 0.1 |
| D | 1,848 | 386 | 1,613 | 0.2 | 209.8 | 209.8 | 210.0 | 0.2 |
| E | 3,010 | 9 | 28 | 9.0 | 210.6 | 210.6 | 211.2 | 0.6 |
| F | 3,168 | 74 | 289 | 0.7 | 214.6 | 214.6 | 214.6 | 0.0 |
| G | 3,485 | 356 | 1,159 | 0.2 | 214.6 | 214.6 | 214.6 | 0.0 |
| H | 3,643 | 360 | 1,553 | 0.1 | 215.0 | 215.0 | 215.3 | 0.3 |
| I | 4,382 | 278 | 1,228 | 0.1 | 215.0 | 215.0 | 215.3 | 0.3 |
| Grassy Pond Brook | | | | | | | | |
| A | 0 | 26 | 50 | 3.0 | 202.8 | 198.7 ² | 198.7 | 0.0 |
| B | 1,263 | 20 | 47 | 3.2 | 202.8 | 202.1 ² | 202.3 | 0.2 |
| C | 1,410 | 105 | 387 | 0.4 | 204.2 | 204.2 | 204.3 | 0.1 |
| D | 1,500 | 135 | 506 | 0.3 | 204.2 | 204.2 | 204.3 | 0.1 |
| E | 1,630 | 50 | 262 | 0.6 | 204.3 | 204.3 | 205.1 | 0.8 |
| F | 2,870 | 69 | 243 | 0.6 | 204.4 | 204.4 | 205.1 | 0.7 |

¹ Feet above confluence with Fort Pond Brook

² Elevation computed without consideration of backwater effects from Fort Pond Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**FORT POND BROOK BRANCH 1 - FORT POND BROOK
BRANCH 2 - GRASSY POND BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Grassy Pond Brook (continued) | | | | | | | | |
| G | 2,990 ¹ | 25 | 122 | 1.2 | 205.2 | 205.2 | 206.2 | 1.0 |
| H | 4,055 ¹ | 115 | 443 | 0.3 | 205.3 | 205.3 | 206.2 | 0.9 |
| I | 4,840 ¹ | 35 | 112 | 1.1 | 205.3 | 205.3 | 206.2 | 0.9 |
| J | 4,970 ¹ | 70 | 342 | 0.4 | 207.5 | 207.5 | 208.1 | 0.6 |
| K | 5,255 ¹ | 72 | 277 | 0.4 | 207.5 | 207.5 | 208.1 | 0.6 |
| L | 5,600 ¹ | 50 | 141 | 0.9 | 207.5 | 207.5 | 208.1 | 0.6 |
| M | 5,730 ¹ | 30 | 102 | 1.2 | 210.0 | 210.0 | 210.0 | 0.0 |
| N | 6,380 ¹ | 22 | 21 | 5.6 | 210.4 | 210.4 | 210.5 | 0.1 |
| O | 6,880 ¹ | 14 | 47 | 2.1 | 213.6 | 213.6 | 214.6 | 1.0 |
| P | 7,075 ¹ | 40 | 195 | 0.5 | 216.0 | 216.0 | 216.0 | 0.0 |
| Graves Pond Brook | | | | | | | | |
| A | 560 ² | 23 | 67 | 2.6 | 338.0 | 338.0 | 338.0 | 0.0 |
| B | 1,175 ² | 7 | 19 | 9.3 | 347.2 | 347.2 | 347.2 | 0.0 |
| Great Road Tributary | | | | | | | | |
| A | 1,146 ³ | 20 | 42 | 2.4 | 211.2 | 211.2 | 211.3 | 0.1 |
| B | 3,057 ³ | 22 | 57 | 0.6 | 216.1 | 216.1 | 216.3 | 0.2 |
| C | 4,081 ³ | 14 | 15 | 1.4 | 216.1 | 216.1 | 216.4 | 0.3 |
| Greens Brook | | | | | | | | |
| A | 230 ⁴ | 38 | 95 | 1.0 | 231.7 | 231.7 | 232.6 | 0.9 |
| B | 1,002 ⁴ | 28 | 99 | 1.0 | 236.0 | 236.0 | 236.8 | 0.8 |
| C | 1,500 ⁴ | 160 | 392 | 0.3 | 236.2 | 236.2 | 237.0 | 0.8 |
| D | 2,575 ⁴ | 45 | 110 | 0.7 | 238.7 | 238.7 | 239.4 | 0.7 |
| E | 3,490 ⁴ | 33 | 63 | 1.3 | 247.0 | 247.0 | 247.8 | 0.8 |
| F | 3,896 ⁴ | 55 | 348 | 0.2 | 253.7 | 253.7 | 254.1 | 0.4 |

¹ Feet above confluence with Fort Pond Brook

² Feet above limit of detailed study, limit of detailed study is approximately 490 feet downstream of Emery Road

³ Feet above confluence with Beaver Brook

⁴ Feet above confluence with Varnum Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**GRASSY POND BROOK – GRAVES POND BROOK –
GREAT ROAD TRIBUTARY – GREENS BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Guggins Brook | | | | | | | | |
| A | 135 | 135 | 455 | 0.6 | 206.5 | 205.6 ² | 206.6 | 1.0 |
| B | 240 | 135 | 503 | 0.6 | 206.6 | 206.5 ² | 206.9 | 0.4 |
| C | 565 | 80 | 237 | 1.2 | 206.6 | 206.5 ² | 206.9 | 0.4 |
| D | 940 | 80 | 241 | 1.2 | 206.7 | 206.6 ² | 207.2 | 0.6 |
| E | 2,930 | 8 | 17 | 8.2 | 207.9 | 207.9 | 208.9 | 1.0 |
| F | 3,828 | 41 | 74 | 1.8 | 213.0 | 213.0 | 213.9 | 0.9 |
| G | 3,986 | 133 | 379 | 0.3 | 216.8 | 216.8 | 216.8 | 0.0 |
| H | 5,085 | 16 | 29 | 4.1 | 216.9 | 216.9 | 217.1 | 0.2 |
| I | 6,262 | 12 | 25 | 4.7 | 223.0 | 223.0 | 224.0 | 1.0 |
| J | 6,420 | 13 | 20 | 5.0 | 224.2 | 224.2 | 224.7 | 0.5 |
| K | 6,526 | 13 | 42 | 2.4 | 226.0 | 226.0 | 226.4 | 0.4 |
| L | 7,054 | 10 | 22 | 4.5 | 227.3 | 227.3 | 227.7 | 0.4 |
| M | 7,170 | 342 | 577 | 0.2 | 229.0 | 229.0 | 229.6 | 0.6 |
| N | 7,540 | 36 | 54 | 1.9 | 229.0 | 229.0 | 229.6 | 0.6 |
| O | 7,698 | 143 | 385 | 0.3 | 232.7 | 232.7 | 232.7 | 0.0 |
| P | 7,857 | 12 | 15 | 6.6 | 232.7 | 232.7 | 233.1 | 0.4 |
| Q | 8,068 | 135 | 704 | 0.1 | 237.2 | 237.2 | 237.7 | 0.5 |
| R | 8,184 | 36 | 108 | 0.9 | 237.2 | 237.2 | 237.9 | 0.7 |
| S | 8,290 | 30 | 161 | 0.6 | 237.3 | 237.3 | 237.8 | 0.5 |
| T | 9,240 | 5 | 9 | 7.9 | 238.0 | 238.0 | 238.0 | 0.0 |
| U | 10,460 | 147 | 21 | 3.5 | 242.6 | 242.6 | 242.6 | 0.0 |
| V | 11,579 | 24 | 46 | 1.6 | 245.9 | 245.9 | 246.7 | 0.8 |
| W | 11,674 | 32 | 23 | 3.2 | 250.1 | 250.1 | 250.1 | 0.0 |
| X | 12,466 | 6 | 10 | 7.4 | 273.8 | 273.8 | 273.9 | 0.1 |
| Y | 13,416 | 6 | 11 | 6.7 | 302.3 | 302.3 | 302.3 | 0.0 |
| Z | 13,628 | 42 | 49 | 1.5 | 303.9 | 303.9 | 304.4 | 0.5 |
| AA | 13,839 | 270 | 1,031 | 0.1 | 308.8 | 308.8 | 308.8 | 0.0 |
| AB | 14,472 | 44 | 74 | 1.0 | 308.8 | 308.8 | 308.8 | 0.0 |

¹ Feet above confluence with Inch Brook

² Elevation computed without consideration of coincident peak flooding with Inch Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

GUGGINS BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Hales Brook | | | | | | | | |
| A-F* | | | | | | | | |
| G | 6,930 ¹ | 30 | 170 | 0.6 | 105.1 | 105.1 | 105.7 | 0.6 |
| Halls Brook | | | | | | | | |
| A | 10 ² | 7** | 32 | 2.6 | 54.0 | 51.9 ³ | 51.9 | 0.0 |
| B | 190 ² | 243** | 1,825 | 0.1 | 54.2 | 54.2 | 54.8 | 0.6 |
| C | 2,180 ² | 588 | 1,287 | 0.5 | 55.1 | 55.1 | 55.4 | 0.3 |
| D | 4,090 ² | 21** | 55 | 4.4 | 55.7 | 55.7 | 55.8 | 0.1 |
| E | 4,940 ² | 31 | 90 | 1.9 | 60.5 | 60.4 | 60.5 | 0.1 |
| F | 5,320 ² | 48** | 180 | 1.0 | 61.6 | 61.6 | 61.6 | 0.0 |
| G | 8,590 ² | 15 | 23 | 5.5 | 71.2 | 71.2 | 71.2 | 0.0 |
| H | 8,890 ² | 25** | 50 | 2.6 | 74.0 | 74.0 | 74.1 | 0.1 |
| I | 9,090 ² | 24 | 50 | 2.2 | 78.0 | 78.0 | 78.0 | 0.0 |
| J | 10,500 ² | 20 | 21 | 2.5 | 89.0 | 89.0 | 89.0 | 0.0 |
| K | 10,710 ² | 18 | 13 | 3.9 | 91.7 | 91.7 | 91.7 | 0.0 |
| L | 10,980 ² | 42 | 110 | 0.5 | 95.2 | 95.2 | 95.2 | 0.0 |

¹ Feet above confluence with River Meadow Brook

² Feet above confluence with Aberjona River

** The 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

³ Elevation computed without consideration of backwater effects from Aberjona River

* No data available

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HALES BROOK – HALLS BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Hayward Brook | | | | | | | | |
| A | 660 ¹ | 80 | 166 | 1.9 | 122.0 | 120.3 ³ | 121.2 | 0.9 |
| B | 1,250 ¹ | 17 | 28 | 6.3 | 122.9 | 122.9 | 122.9 | 0.0 |
| C | 1,605 ¹ | 87 | 469 | 0.4 | 129.3 | 129.3 | 129.3 | 0.0 |
| D | 2,745 ¹ | 31 | 143 | 1.2 | 129.3 | 129.3 | 129.3 | 0.0 |
| E | 3,135 ¹ | 10 | 17 | 7.5 | 135.2 | 135.2 | 135.2 | 0.0 |
| F | 3,869 ¹ | 104 | 255 | 0.5 | 145.2 | 145.2 | 145.7 | 0.5 |
| G | 4,359 ¹ | 84 | 137 | 1.0 | 145.5 | 145.5 | 145.9 | 0.4 |
| H | 4,999 ¹ | 242 | 1,810 | 0.1 | 156.1 | 156.1 | 156.1 | 0.0 |
| Heath Brook | | | | | | | | |
| A | 4,340 ² | 355 | 2,748 | 0.1 | 86.0 | 86.0 | 86.8 | 0.8 |
| B | 7,403 ² | 16 | 27 | 6.2 | 86.2 | 86.2 | 86.8 | 0.6 |

¹ Feet above confluence with Pine Brook

² Feet above confluence with Shawsheen River

³ Elevation computed without consideration of backwater effects from Sudbury River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HAYWARD BROOK – HEATH BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Hobbs Brook 1 | | | | | | | | |
| A | 317 | 21 | 130 | 4.0 | 96.7 | 94.7 ² | 94.7 | 0.0 |
| B | 792 | 23 | 126 | 4.2 | 96.7 | 95.0 ² | 95.2 | 0.2 |
| C | 1,109 | 33 | 116 | 4.5 | 96.7 | 95.6 ² | 96.4 | 0.8 |
| D | 1,267 | 15 | 114 | 4.6 | 100.2 | 100.2 | 100.2 | 0.0 |
| E | 1,373 | 60 | 94 | 5.6 | 100.3 | 100.3 | 100.3 | 0.0 |
| F | 2,218 | 37 | 174 | 2.9 | 100.6 | 100.6 | 101.2 | 0.6 |
| G | 3,168 | 15 | 53 | 9.4 | 108.0 | 108.0 | 108.2 | 0.2 |
| H | 4,118 | 34 | 106 | 4.7 | 113.0 | 113.0 | 113.4 | 0.4 |
| I | 4,858 | 31 | 63 | 7.9 | 119.5 | 119.5 | 119.5 | 0.0 |
| J | 5,438 | 14 | 62 | 8.1 | 125.8 | 125.8 | 126.1 | 0.3 |
| K | 5,544 | 235 | 183 | 2.9 | 134.4 | 134.4 | 134.4 | 0.0 |
| L | 6,547 | 30 | 136 | 1.4 | 135.5 | 135.5 | 135.5 | 0.0 |
| M | 7,292 | 20 | 42 | 6.2 | 138.5 | 138.5 | 138.5 | 0.0 |
| N | 8,622 | 15 | 59 | 4.4 | 143.4 | 143.4 | 144.4 | 1.0 |
| O | 9,456 | 15 | 39 | 6.7 | 149.0 | 149.0 | 149.2 | 0.2 |

¹ Feet above confluence with Stony Brook 1

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

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HOBBS BROOK 1

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Hobbs Brook 2 | | | | | | | | |
| A | 160 ¹ | 67 | 410 | 0.4 | 172.6 | 172.6 | 173.6 | 1.0 |
| B | 760 ¹ | 79 | 232 | 0.7 | 173.4 | 173.4 | 174.4 | 1.0 |
| C | 1,660 ¹ | 21 | 25 | 6.3 | 176.4 | 176.4 | 176.4 | 0.0 |
| Hog Brook | | | | | | | | |
| A | 355 ² | 16 | 43 | 9.4 | 210.1 | 210.1 | 210.1 | 0.0 |
| B | 475 ² | 16 | 58 | 6.9 | 211.6 | 211.6 | 212.2 | 0.6 |
| C | 608 ² | 235 | 998 | 0.4 | 214.5 | 214.5 | 214.5 | 0.0 |
| D | 1,595 ² | 31 | 54 | 7.5 | 220.5 | 220.5 | 220.5 | 0.0 |
| E | 2,662 ² | 30 | 53 | 7.6 | 234.7 | 234.7 | 235.3 | 0.6 |
| F | 3,515 ² | 22 | 48 | 8.4 | 238.6 | 238.6 | 238.8 | 0.2 |
| Hop Brook | | | | | | | | |
| A | 1,910 ³ | 30 | 165 | 5.6 | 123.5 | 123.5 | 124.5 | 1.0 |
| B | 4,560 ³ | 163 | 724 | 1.3 | 133.6 | 133.6 | 134.3 | 0.7 |
| C | 6,000 ³ | 165 | 703 | 1.3 | 137.8 | 137.8 | 137.8 | 0.0 |
| D | 8,500 ³ | 125 | 720 | 1.3 | 138.2 | 138.2 | 138.4 | 0.2 |
| E | 9,830 ³ | 90 | 311 | 2.4 | 138.4 | 138.4 | 138.7 | 0.3 |
| F | 11,220 ³ | 226 | 914 | 0.8 | 138.7 | 138.7 | 139.1 | 0.4 |
| G | 12,700 ³ | 155 | 574 | 1.3 | 141.2 | 141.2 | 141.2 | 0.0 |
| H | 14,800 ³ | 325 | 1,443 | 0.5 | 145.7 | 145.7 | 146.3 | 0.6 |
| I | 16,155 ³ | 54 | 225 | 3.3 | 146.0 | 146.0 | 146.7 | 0.7 |
| J | 17,170 ³ | 45 | 204 | 3.7 | 146.5 | 146.5 | 147.3 | 0.8 |
| K | 19,050 ³ | 55 | 239 | 2.7 | 147.9 | 147.9 | 148.9 | 1.0 |
| L | 21,270 ³ | 60 | 239 | 2.6 | 148.8 | 148.8 | 149.8 | 1.0 |
| M | 22,520 ³ | 124 | 357 | 1.8 | 150.3 | 150.3 | 151.3 | 1.0 |

¹ Feet above limit of detailed study, limit of detailed study is approximately 660 feet downstream of Mill Street

² Feet above confluence with Assabet River

³ Feet above confluence with Landham-Allowance Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HOBBS BROOK 2 – HOG BROOK – HOP BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|---------------------|-----------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Hop Brook (continued) | | | | | | | | |
| N | 23,000 ¹ | 320 | 2,574 | 0.2 | 158.1 | 158.1 | 158.1 | 0.0 |
| O | 24,560 ¹ | 200 | 1,146 | 0.6 | 158.1 | 158.1 | 158.1 | 0.0 |
| P | 25,820 ¹ | 188 | 1,163 | 0.5 | 158.2 | 158.2 | 158.2 | 0.0 |
| Q | 28,100 ¹ | 10 | 72 | 8.8 | 158.3 | 158.3 | 159.1 | 0.8 |
| R | 29,900 ¹ | 225 | 727 | 0.9 | 161.0 | 161.0 | 161.6 | 0.6 |
| S | 31,150 ¹ | 120 | 417 | 1.5 | 161.3 | 161.3 | 161.9 | 0.6 |
| T | 33,060 ¹ | 296 | 741 | 0.9 | 162.2 | 162.2 | 162.9 | 0.7 |
| U | 33,900 ¹ | 40 | 94 | 3.3 | 162.7 | 162.7 | 163.4 | 0.7 |
| V | 36,600 ¹ | 970 | 13,781 | 0.0 | 186.5 | 186.5 | 186.5 | 0.0 |
| W | 38,700 ¹ | 180 | 900 | 0.3 | 186.5 | 186.5 | 186.5 | 0.0 |
| X | 40,155 ¹ | 20 | 65 | 4.7 | 191.2 | 191.2 | 191.5 | 0.3 |
| Y | 41,330 ¹ | 15 | 41 | 6.3 | 197.8 | 197.8 | 198.7 | 0.9 |
| Z | 42,370 ¹ | 280 | 3,767 | 0.1 | 211.9 | 211.9 | 211.9 | 0.0 |
| AA | 43,905 ¹ | 100 | 900 | 0.3 | 211.9 | 211.9 | 211.9 | 0.0 |
| AB | 44,755 ¹ | 25 | 99 | 3.1 | 212.2 | 212.2 | 212.3 | 0.1 |
| AC | 45,130 ¹ | 49 | 242 | 1.3 | 224.8 | 224.8 | 224.8 | 0.0 |
| Horn Pond Brook/Fowle Brook | | | | | | | | |
| A | 100 ² | 74 [*] | 531 | 1.2 | 22.7 | 22.6 ³ | 23.3 | 0.7 |
| B | 440 ² | 76 [*] | 351 | 1.8 | 22.9 | 22.8 ³ | 23.5 | 0.7 |
| C | 1,130 ² | 361 | 1,586 | 0.5 | 23.6 | 23.6 | 23.8 | 0.2 |
| D | 1,560 ² | 208 | 424 | 1.5 | 23.7 | 23.7 | 23.8 | 0.1 |
| E | 2,850 ² | 56 | 138 | 4.5 | 25.0 | 25.0 | 25.2 | 0.2 |
| F | 3,590 ² | 19 | 68 | 9.2 | 28.6 | 28.6 | 28.7 | 0.1 |
| G | 3,880 ² | 76 | 202 | 3.1 | 31.6 | 31.6 | 31.7 | 0.1 |
| H | 4,700 ² | 47 | 107 | 5.8 | 34.6 | 34.6 | 34.7 | 0.1 |

¹ Feet above confluence with Landham-Allowance Brook

³ Elevation computed without consideration of backwater effects from Aberjona River

² Feet above confluence with Aberjona River

* The 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 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

HOP BROOK – HORN POND BROOK/FOWLE BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Horn Pond Brook/Fowle Brook (continued) | | | | | | | | |
| I | 6,270 ¹ | 39 | 86 | 7.0 | 38.1 | 38.1 | 38.1 | 0.0 |
| J | 6,390 ¹ | 30 | 149 | 4.0 | 42.0 | 42.0 | 42.1 | 0.1 |
| K | 7,240 ¹ | 937 | 21,555 | 0.0 | 42.7 | 42.7 | 42.8 | 0.1 |
| L | 9,960 ¹ | 196* | 8,563 | 0.3 | 42.7 | 42.7 | 42.7 | 0.0 |
| M | 11,300 ¹ | 123* | 658 | 1.5 | 43.6 | 43.6 | 43.6 | 0.0 |
| N | 12,990 ¹ | 58* | 1,970 | 3.4 | 46.6 | 46.6 | 46.8 | 0.2 |
| Inch Brook | | | | | | | | |
| A | 0 ² | 40 | 71 | 4.7 | 206.4 | 201.5 ³ | 201.8 | 0.3 |
| B | 50 ² | 40 | 70 | 4.8 | 206.4 | 202.5 ³ | 202.5 | 0.0 |
| C | 320 ² | 40 | 146 | 2.3 | 206.4 | 203.4 ³ | 204.3 | 0.9 |
| D | 510 ² | 150 | 393 | 0.9 | 206.4 | 203.5 ³ | 204.5 | 1.0 |
| E | 615 ² | 150 | 391 | 0.9 | 206.4 | 203.7 ³ | 204.6 | 0.9 |
| F | 870 ² | 37 | 117 | 2.9 | 206.4 | 204.1 ³ | 204.7 | 0.6 |
| G | 1,185 ² | 39 | 105 | 3.2 | 206.5 | 204.9 ³ | 205.4 | 0.5 |
| H | 1,270 ² | 40 | 152 | 2.2 | 206.5 | 205.5 ³ | 205.9 | 0.4 |

¹ Feet above confluence with Aberjona River

³ Elevation computed without consideration of coincident peak flooding with Fort Pond Brook

² Feet above confluence with Fort Pond Brook

* The 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 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | HORN POND BROOK / FOWLE BROOK – INCH BROOK |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|----------------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Indian Brook | | | | | | | | |
| A | 21,230 ¹ | 24 | 83 | 3.8 | 300.2 | 300.2 | 301.0 | 0.8 |
| B | 22,100 ¹ | 115 | 254 | 1.2 | 301.2 | 301.2 | 301.9 | 0.7 |
| C | 22,805 ¹ | 10 | 46 | 6.9 | 303.2 | 303.2 | 304.2 | 1.0 |
| Ipswich River | | | | | | | | |
| A | 0 ² | 375/225 ³ | 1,925 | 0.5 | 59.6 | 59.6 | 59.6 | 0.0 |
| B | 600 ² | 70/35 ³ | 345 | 3.0 | 59.6 | 59.6 | 59.6 | 0.0 |
| C | 1,900 ² | 60/30 ³ | 380 | 2.7 | 60.2 | 60.2 | 60.6 | 0.4 |
| D | 3,945 ² | 75/45 ³ | 510 | 2.0 | 60.9 | 60.9 | 61.5 | 0.6 |
| E | 4,055 ² | 55/30 ³ | 370 | 2.8 | 61.1 | 61.1 | 61.6 | 0.5 |
| F | 4,915 ² | 80/40 ³ | 590 | 1.8 | 61.4 | 61.4 | 62.0 | 0.6 |
| G | 4,975 ² | 50/25 ³ | 410 | 2.5 | 61.6 | 61.6 | 62.1 | 0.5 |
| H | 6,925 ² | 45/25 ³ | 420 | 2.5 | 61.9 | 61.9 | 62.8 | 0.9 |
| I | 8,965 ² | 100/50 ³ | 675 | 2.4 | 62.2 | 62.2 | 62.8 | 0.6 |
| J | 14,065 ² | 100 | 675 | 1.8 | 62.6 | 62.6 | 63.3 | 0.7 |
| K | 16,670 ² | 94 | 455 | 2.8 | 63.0 | 63.0 | 63.8 | 0.8 |
| L | 16,770 ² | 60 | 475 | 2.2 | 63.1 | 63.1 | 63.8 | 0.7 |
| M | 17,490 ² | 60 | 400 | 2.6 | 63.4 | 63.4 | 63.8 | 0.4 |
| N | 18,250 ² | 50 | 315 | 3.3 | 64.0 | 64.0 | 64.3 | 0.3 |
| O | 18,360 ² | 50 | 325 | 3.2 | 64.7 | 64.7 | 64.9 | 0.2 |
| P | 20,880 ² | 40 | 330 | 3.1 | 66.7 | 66.7 | 66.9 | 0.2 |
| Q | 20,975 ² | 65 | 420 | 2.5 | 66.8 | 66.8 | 67.0 | 0.2 |
| R | 21,875 ² | 265 | 1,320 | 1.7 | 67.0 | 67.0 | 67.3 | 0.3 |
| S | 23,475 ² | 245 | 2,150 | 0.5 | 67.1 | 67.1 | 67.3 | 0.2 |
| T | 23,990 ² | 120 | 700 | 1.5 | 67.1 | 67.1 | 67.3 | 0.2 |
| U | 24,110 ² | 135 | 844 | 1.2 | 67.5 | 67.5 | 68.5 | 1.0 |

¹ Feet above confluence with Sudbury River

² Feet above county boundary, county boundary is approximately 16,710 feet downstream of Washington Street

³ Width/width within county

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

INDIAN BROOK – IPSWICH RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Ipswich River (continued) | | | | | | | | |
| V | 24,450 | 41 | 247 | 4.2 | 67.6 | 67.6 | 68.6 | 1.0 |
| W | 26,390 | 150 | 1,073 | 1.0 | 70.2 | 70.2 | 70.9 | 0.7 |
| X | 27,290 | 200 | 1,715 | 0.6 | 70.3 | 70.3 | 71.2 | 0.9 |
| Y | 27,840 | 200 | 1,558 | 0.3 | 70.3 | 70.3 | 71.2 | 0.9 |
| Z | 29,530 | 200 | 1,292 | 0.4 | 70.3 | 70.3 | 71.2 | 0.9 |
| AA | 30,230 | 200 | 1,230 | 0.4 | 70.3 | 70.3 | 71.2 | 0.9 |
| AB | 31,480 | 150 | 630 | 0.9 | 70.4 | 70.4 | 71.4 | 1.0 |
| AC | 31,600 | 40 | 250 | 2.2 | 70.8 | 70.8 | 71.7 | 0.9 |
| AD | 33,030 | 85 | 600 | 0.9 | 71.4 | 71.4 | 72.2 | 0.8 |
| AE | 35,200 | 100 | 500 | 1.1 | 72.2 | 72.2 | 73.1 | 0.9 |
| AF | 36,500 | 200 | 920 | 0.6 | 72.3 | 72.3 | 73.2 | 0.9 |
| AG | 37,600 | 100 | 470 | 1.1 | 72.5 | 72.5 | 73.4 | 0.9 |
| AH | 38,580 | 100 | 480 | 1.1 | 72.7 | 72.7 | 73.6 | 0.9 |
| AI | 44,700 | 100 | 470 | 1.1 | 74.4 | 74.4 | 75.3 | 0.9 |
| AJ | 44,950 | 100 | 385 | 1.4 | 74.7 | 74.7 | 75.6 | 0.9 |
| AK | 45,425 | 230 | 375 | 1.5 | 74.9 | 74.9 | 75.8 | 0.9 |
| AL | 46,587 | 400 | 1,335 | 0.4 | 75.3 | 75.3 | 76.1 | 0.8 |
| AM | 47,944 | 250 | 865 | 0.6 | 76.2 | 76.2 | 77.1 | 0.9 |
| AN | 48,678 | 60 | 235 | 1.3 | 77.0 | 77.0 | 77.7 | 0.7 |
| AO | 49,132 | 115 | 380 | 0.8 | 77.1 | 77.1 | 77.7 | 0.6 |
| AP | 50,193 | 165 | 965 | 0.3 | 79.9 | 79.9 | 79.9 | 0.0 |
| AQ | 51,466 | 50 | 295 | 1.1 | 79.9 | 79.9 | 79.9 | 0.0 |
| AR | 53,430 | 540 | 3,090 | 0.0 | 79.9 | 79.9 | 80.3 | 0.4 |
| AS | 54,142 | 410 | 1,630 | 0.1 | 79.9 | 79.9 | 80.3 | 0.4 |
| AT | 55,436 | 250 | 615 | 0.4 | 80.0 | 80.0 | 80.4 | 0.4 |
| AU | 56,244 | 70 | 230 | 1.1 | 84.8 | 84.8 | 84.8 | 0.0 |

¹ Feet above county boundary, county boundary is approximately 16,710 feet downstream of Washington Street

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

IPSWICH RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Ipswich River | | | | | | | | |
| AV | 56,682 ¹ | 125 | 485 | 0.5 | 84.8 | 84.8 | 84.9 | 0.1 |
| AW | 57,527 ¹ | 20 | 140 | 1.9 | 87.2 | 87.2 | 87.2 | 0.0 |
| AX | 58,092 ¹ | 100 | 320 | 0.8 | 88.7 | 88.7 | 88.7 | 0.0 |
| AY | 59,459 ¹ | 80 | 500 | 0.4 | 90.9 | 90.9 | 90.9 | 0.0 |
| AZ | 60,315 ¹ | 50 | 245 | 0.8 | 92.9 | 92.9 | 92.9 | 0.0 |
| BA | 61,212 ¹ | 90 | 545 | 0.4 | 95.4 | 95.4 | 95.4 | 0.0 |
| BB | 62,057 ¹ | 175 | 720 | 0.3 | 95.5 | 95.5 | 95.5 | 0.0 |
| BC | 62,485 ¹ | 190 | 1,090 | 0.2 | 95.5 | 95.5 | 95.5 | 0.0 |
| BD | 63,034 ¹ | 225 | 1,120 | 0.1 | 95.5 | 95.5 | 95.5 | 0.0 |
| BE | 64,586 ¹ | 130 | 410 | 0.3 | 95.5 | 95.5 | 95.5 | 0.0 |
| BF | 65,542 ¹ | 10 | 55 | 2.6 | 100.0 | 100.0 | 100.4 | 0.4 |
| BG | 66,471 ¹ | 10 | 30 | 4.6 | 103.8 | 103.8 | 104.6 | 0.8 |
| BH | 67,702 ¹ | 55 | 145 | 1.0 | 106.4 | 106.4 | 106.7 | 0.3 |
| BI | 68,668 ¹ | 25 | 50 | 2.7 | 106.9 | 106.9 | 107.7 | 0.8 |
| BJ | 69,951 ¹ | 55 | 170 | 0.8 | 108.4 | 108.4 | 109.4 | 1.0 |
| James Brook | | | | | | | | |
| A | 1,080 ² | 75 | 297 | 1.1 | 212.6 | 206.1 ³ | 206.1 | 0.0 |
| B | 2,220 ² | 115 | 220 | 1.5 | 212.6 | 207.5 ³ | 208.2 | 0.7 |
| C | 3,550 ² | 32 | 63 | 5.3 | 214.1 | 214.1 | 214.9 | 0.8 |
| D | 4,000 ² | 35 | 63 | 5.3 | 217.1 | 217.1 | 217.9 | 0.8 |
| E | 4,340 ² | 17 | 79 | 4.3 | 218.2 | 218.2 | 219.1 | 0.9 |
| F | 4,725 ² | 10 | 70 | 4.8 | 223.5 | 223.5 | 224.0 | 0.5 |
| G | 5,900 ² | 15 | 40 | 6.0 | 230.1 | 230.1 | 230.6 | 0.5 |
| H | 6,475 ² | 97 | 136 | 1.8 | 232.7 | 232.7 | 233.3 | 0.6 |
| I | 7,000 ² | 20 | 44 | 5.5 | 234.9 | 234.9 | 235.6 | 0.7 |

¹ Feet above county boundary, county boundary is approximately 16,710 feet downstream of Washington Street

² Feet above confluence with Nashua River

³ Elevation computed without consideration of backwater effects from Nashua River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

IPSWICH RIVER – JAMES BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------------|---------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| James Brook (continued) | | | | | | | | |
| J | 7,463 ¹ | 20 | 39 | 6.1 | 239.2 | 239.2 | 239.4 | 0.2 |
| K | 7,950 ¹ | 12 | 32 | 7.6 | 246.0 | 246.0 | 246.2 | 0.2 |
| L | 9,360 ¹ | 30 | 49 | 4.1 | 264.0 | 264.0 | 264.7 | 0.7 |
| M | 9,945 ¹ | 13 | 36 | 5.7 | 270.2 | 270.2 | 270.9 | 0.7 |
| N | 11,615 ¹ | 22 | 34 | 6.0 | 283.6 | 283.6 | 284.1 | 0.5 |
| O | 13,050 ¹ | 43 | 151 | 1.4 | 292.0 | 292.0 | 292.0 | 0.0 |
| P | 13,960 ¹ | 65 | 374 | 0.4 | 294.9 | 294.9 | 295.0 | 0.1 |
| Q | 15,015 ¹ | 81 | 268 | 0.5 | 295.1 | 295.1 | 295.2 | 0.1 |
| R | 16,030 ¹ | 20 | 35 | 4.1 | 296.9 | 296.9 | 297.0 | 0.1 |
| S | 16,740 ¹ | 125 | 582 | 0.2 | 300.7 | 300.7 | 300.7 | 0.0 |
| T | 17,530 ¹ | 250 | 967 | 0.1 | 300.7 | 300.7 | 300.7 | 0.0 |
| U | 19,480 ¹ | 300 | 913 | 0.1 | 301.5 | 301.5 | 301.5 | 0.0 |
| Jones Brook | | | | | | | | |
| A | 975 ² | 50 | 190 | 2.4 | 97.0 | 93.3 ³ | 94.3 | 1.0 |
| B | 1,800 ² | 40 | 186 | 2.4 | 97.0 | 95.3 ³ | 95.8 | 0.5 |
| C | 2,500 ² | 40 | 137 | 3.3 | 97.5 | 97.5 | 98.2 | 0.7 |
| D | 3,250 ² | 40 | 159 | 2.8 | 101.1 | 101.1 | 101.5 | 0.4 |
| E | 3,760 ² | 60 | 190 | 2.2 | 103.9 | 103.9 | 104.2 | 0.3 |
| F | 4,340 ² | 100 | 373 | 1.1 | 104.2 | 104.2 | 104.8 | 0.6 |
| G | 4,680 ² | 150 | 628 | 0.7 | 104.3 | 104.3 | 104.9 | 0.6 |
| H | 5,520 ² | 16 | 88 | 3.9 | 106.8 | 106.8 | 106.8 | 0.0 |
| I | 6,150 ² | 40 | 215 | 1.6 | 108.0 | 108.0 | 108.4 | 0.4 |

¹ Feet above confluence with Nashua River

² Feet above confluence with Shawsheen River

³ Elevation computed without consideration of backwater effects from Shawsheen River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

JAMES BROOK – JONES BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Kiln Brook | | | | | | | | |
| A | 211 ¹ | 106 | 372 | 1.2 | 119.9 | 115.0 ⁴ | 116.0 | 1.0 |
| B | 1,890 ¹ | 1,385 | 3,531 | 0.1 | 119.9 | 115.1 ⁴ | 116.1 | 1.0 |
| C | 2,809 ¹ | 338 | 281 | 1.6 | 119.9 | 115.2 ⁴ | 116.2 | 1.0 |
| King Street Tributary | | | | | | | | |
| A | 42 ² | 15 | 44 | 2.4 | 213.8 | 208.6 ⁵ | 209.6 | 1.0 |
| B | 433 ² | 15 | 32 | 3.3 | 213.8 | 210.0 ⁵ | 210.2 | 0.2 |
| C | 723 ² | 20 | 22 | 4.7 | 213.8 | 212.3 ⁵ | 212.5 | 0.2 |
| D | 966 ² | 40 | 149 | 0.7 | 216.4 | 216.4 | 217.3 | 0.9 |
| E | 1,616 ² | 40 | 45 | 2.3 | 217.1 | 217.1 | 217.6 | 0.5 |
| Landham-Allowance Brook* | | | | | | | | |
| A | 15,780 ³ | 341 | 1,153 | 1.0 | 122.0 | 119.7 ⁶ | 119.7 | 0.0 |
| B | 17,930 ³ | 130 | 390 | 2.9 | 122.0 | 121.2 ⁶ | 122.0 | 0.8 |
| C | 21,610 ³ | 235 | 541 | 0.6 | 122.1 | 122.1 | 122.9 | 0.8 |
| D | 23,990 ³ | 194 | 620 | 0.5 | 124.6 | 124.6 | 124.7 | 0.1 |
| E | 25,690 ³ | 80 | 163 | 2.0 | 126.8 | 126.8 | 127.0 | 0.2 |
| F | 27,360 ³ | 40 | 110 | 2.9 | 137.3 | 137.3 | 137.3 | 0.0 |
| G | 28,240 ³ | 66 | 78 | 4.2 | 152.0 | 152.0 | 152.0 | 0.0 |
| H | 30,140 ³ | 40 | 122 | 1.3 | 166.3 | 166.3 | 166.3 | 0.0 |
| I | 32,410 ³ | 27 | 160 | 2.0 | 176.9 | 176.9 | 177.7 | 0.8 |
| J | 33,910 ³ | 107 | 220 | 1.5 | 200.1 | 200.1 | 200.3 | 0.2 |
| K | 34,780 ³ | 60 | 256 | 1.3 | 203.3 | 203.3 | 203.4 | 0.1 |
| L | 36,270 ³ | 11 | 58 | 5.6 | 208.4 | 208.4 | 208.6 | 0.2 |
| M | 38,170 ³ | 39 | 111 | 2.9 | 212.8 | 212.8 | 213.8 | 1.0 |

¹ Feet above confluence with North Lexington Brook

² Feet above confluence with Beaver Brook 4

³ Feet above confluence with Sudbury River

⁴ Elevation computed without consideration of backwater effects from North Lexington Brook

⁵ Elevation computed without consideration of backwater effects from Beaver Brook

⁶ Elevation computed without consideration of backwater effects from Sudbury River

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

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**KILN BROOK – KING STREET TRIBUTARY -
LANDHAM-ALLOWANCE BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Lawrence Brook | | | | | | | | |
| 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 |

¹ Feet above confluence with Merrimack River

² Elevation computed without consideration of backwater effects from Merrimack River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

LAWRENCE BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Little Brook | | | | | | | | |
| A | 10 ¹ | 14 | 30 | 7.0 | 66.5 | 66.5 | 66.6 | 0.1 |
| B | 770 ¹ | 81 | 119 | 1.7 | 72.3 | 72.3 | 72.4 | 0.1 |
| C | 990 ¹ | 45 | 45 | 4.6 | 72.7 | 72.7 | 72.7 | 0.0 |
| D | 2,270 ¹ | 14 | 35 | 5.9 | 88.7 | 88.7 | 88.7 | 0.0 |
| E | 2,460 ¹ | 17 | 28 | 5.1 | 90.6 | 90.6 | 90.7 | 0.1 |
| F | 2,780 ¹ | 99 | 92 | 1.2 | 93.6 | 93.6 | 93.6 | 0.0 |
| Locke Brook | | | | | | | | |
| A | 1,500 ² | 20 | 89 | 7.1 | 309.4 | 309.4 | 310.2 | 0.8 |
| B | 3,800 ² | 55 | 104 | 6.1 | 334.7 | 334.7 | 334.9 | 0.2 |

¹ Feet above confluence with Cummings Brook

² Feet above confluence with Willard Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

LITTLE BROOK – LOCKE BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Lubbers Brook | | | | | | | | |
| A | 401 | 85 | 255 | 1.1 | 76.2 | 74.9 ² | 75.9 | 1.0 |
| B | 1,352 | 50 | 155 | 1.7 | 76.2 | 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 |
| 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 |

¹ Feet above confluence with Ipswich River

² Elevation computed without consideration of backwater effects from Ipswich River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

LUBBERS BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Lubbers Brook (continued) | | | | | | | | |
| 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 |
| Maple Meadow Brook | | | | | | | | |
| A | 486 | 40 | 105 | 4.1 | 79.9 | 75.9 ² | 75.9 | 0.0 |
| B | 1,954 | 25 | 110 | 3.3 | 79.9 | 77.0 ² | 78.0 | 1.0 |
| C | 3,274 | 70 | 280 | 1.3 | 79.9 | 77.8 ² | 78.8 | 1.0 |
| D | 4,910 | 125 | 450 | 0.8 | 79.9 | 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 |

¹ Feet above confluence with Ipswich River

² Elevation computed without consideration of backwater effects from Ipswich River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

LUBBERS BROOK – MAPLE MEADOW BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Marginal Brook | | | | | | | | |
| A | 430 ¹ | 80 | 347 | 0.4 | 102.8 | 102.8 | 103.7 | 0.9 |
| B | 990 ¹ | 22 | 72 | 1.9 | 103.1 | 103.1 | 103.7 | 0.6 |
| C | 1,950 ¹ | 49 | 76 | 1.8 | 103.8 | 103.8 | 104.2 | 0.4 |
| D | 3,130 ¹ | 90 | 133 | 0.8 | 107.0 | 107.0 | 107.3 | 0.3 |
| E | 4,150 ¹ | 10 | 30 | 4.6 | 116.7 | 116.7 | 117.4 | 0.7 |
| F | 5,550 ¹ | 20 | 179 | 0.8 | 126.3 | 126.3 | 126.4 | 0.1 |
| Marshall Brook | | | | | | | | |
| A | 296 ² | 60 | 144 | 2.4 | 94.9 | 93.1 ³ | 93.1 | 0.0 |
| B | 940 ² | 35 | 158 | 2.2 | 96.3 | 96.3 | 96.5 | 0.2 |
| C | 1,690 ² | 15 | 130 | 2.7 | 99.9 | 99.9 | 99.9 | 0.0 |
| D | 2,191 ² | 40 | 179 | 2.0 | 100.0 | 100.0 | 100.5 | 0.5 |
| E | 2,957 ² | 60 | 254 | 1.4 | 100.0 | 100.0 | 100.9 | 0.9 |
| F | 4,620 ² | 10 | 39 | 7.4 | 105.1 | 105.1 | 105.3 | 0.2 |
| G | 5,697 ² | 15 | 81 | 2.5 | 109.3 | 109.3 | 109.6 | 0.3 |
| H | 6,605 ² | 20 | 119 | 1.7 | 111.4 | 111.4 | 111.4 | 0.0 |
| I | 10,185 ² | 75 | 234 | 0.9 | 111.4 | 111.4 | 112.2 | 0.8 |
| J | 11,072 ² | 10 | 61 | 3.4 | 114.8 | 114.8 | 114.8 | 0.0 |
| K | 11,500 ² | 50 | 376 | 0.6 | 115.2 | 115.2 | 115.7 | 0.5 |
| L | 13,316 ² | 60 | 222 | 0.9 | 115.2 | 115.2 | 116.1 | 0.9 |

¹ Feet above confluence with Concord River

² Feet above confluence with Strong Water Brook

³ Elevation computed without consideration of coincident flooding effects from Strong Water Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MARGINAL BROOK – MARSHALL BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Martins Brook | | | | | | | | |
| 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* | | | | | | | | |

¹ Feet above confluence with Ipswich River

* No data available

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MARTINS BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Martins Pond Brook | | | | | | | | |
| A | 600 ¹ | 30 | 30 | 4.9 | 223.6 | 223.6 | 224.1 | 0.5 |
| B | 3,225 ¹ | 100 | 139 | 1.1 | 251.7 | 251.7 | 252.2 | 0.5 |
| C | 4,600 ¹ | 753 | 690 | 0.2 | 254.0 | 254.0 | 254.0 | 0.0 |
| Mascuppic Brook | | | | | | | | |
| A | 725 ² | * | 19 | 4.2 | 123.5 | 121.3 ⁴ | 122.1 | 0.8 |
| B | 810 ² | * | 83 | 1.0 | 123.5 | 123.3 ⁴ | 123.5 | 0.2 |
| C | 1,785 ² | * | 14 | 5.8 | 132.0 | 132.0 | 132.0 | 0.0 |
| D | 1,835 ² | * | 21 | 3.9 | 132.5 | 132.5 | 132.6 | 0.1 |
| E | 1,909 ² | * | 21 | 3.8 | 132.9 | 132.9 | 132.9 | 0.0 |
| F | 1,994 ² | * | 25 | 3.1 | 137.3 | 137.3 | 137.3 | 0.0 |
| G | 2,290 ² | * | 13 | 6.1 | 147.4 | 147.4 | 147.4 | 0.0 |
| H | 2,420 ² | * | 80 | 1.0 | 154.3 | 154.3 | 154.3 | 0.0 |
| I | 2,433 ² | * | 35 | 2.3 | 154.4 | 154.4 | 154.4 | 0.0 |
| Mason Brook | | | | | | | | |
| A | 3,900 ³ | 20 | 64 | 10.2 | 331.0 | 331.0 | 331.3 | 0.3 |
| B | 5,400 ³ | 28 | 99 | 6.6 | 343.8 | 343.8 | 344.5 | 0.7 |
| C | 7,600 ³ | 20 | 84 | 7.8 | 363.8 | 363.8 | 364.6 | 0.8 |

¹ Feet above confluence with Lost Lake

² Feet above confluence with Lawrence Brook

* Floodway coincident with channel banks

³ Feet above confluence with Walker Brook 2

⁴ Elevation computed without consideration of backwater effects from Lawrence Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**MARTINS POND BROOK – MASCUPPIC BROOK –
MASON BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------|--------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Meadow Brook | | | | | | | | |
| A | 0 ¹ | 100 | 418 | 1.2 | 94.9 | 92.1 ³ | 93.1 | 1.0 |
| B | 412 ¹ | 50 | 180 | 2.8 | 94.9 | 93.4 ³ | 94.2 | 0.8 |
| C | 744 ¹ | 75 | 377 | 1.4 | 95.0 | 93.7 ³ | 94.6 | 0.9 |
| D | 1,220 ¹ | 40 | 293 | 1.7 | 95.9 | 95.2 ³ | 95.7 | 0.5 |
| E | 2,376 ¹ | 65 | 275 | 1.9 | 96.0 | 95.3 ³ | 96.3 | 1.0 |
| F | 2,656 ¹ | 40 | 308 | 1.7 | 97.7 | 97.7 | 98.4 | 0.7 |
| G | 3,432 ¹ | 75 | 565 | 0.9 | 97.7 | 97.7 | 98.5 | 0.8 |
| H | 6,415 ¹ | 200 | 1,108 | 0.3 | 97.7 | 97.7 | 98.7 | 1.0 |
| I | 8,501 ¹ | 85 | 193 | 1.5 | 98.3 | 98.3 | 99.2 | 0.9 |
| J | 9,309 ¹ | 10 | 50 | 5.7 | 101.0 | 101.0 | 101.8 | 0.8 |
| Meadow River Branch | | | | | | | | |
| A | 0 ² | 100 | 170 | 3.2 | 169.8 | 169.8 | 170.3 | 0.5 |
| B | 180 ² | 120 | 613 | 0.9 | 174.2 | 174.2 | 174.2 | 0.0 |
| C | 350 ² | 120 | 1,129 | 0.5 | 174.5 | 174.5 | 174.5 | 0.0 |
| D | 1,350 ² | 120 | 651 | 0.8 | 174.5 | 174.5 | 174.5 | 0.0 |
| E | 2,345 ² | 74 | 138 | 3.9 | 176.9 | 176.9 | 176.9 | 0.0 |
| F | 3,630 ² | 80 | 165 | 3.3 | 180.3 | 180.3 | 180.3 | 0.0 |
| G | 4,355 ² | 100 | 164 | 3.3 | 184.1 | 184.1 | 184.1 | 0.0 |
| H | 4,980 ² | 100 | 221 | 2.4 | 185.0 | 185.0 | 185.1 | 0.1 |
| I | 6,695 ² | 210 | 338 | 1.1 | 186.4 | 186.4 | 187.0 | 0.6 |
| J | 8,185 ² | 200 | 640 | 0.6 | 188.1 | 188.1 | 188.3 | 0.2 |
| K | 8,695 ² | 585 | 1,605 | 0.2 | 188.1 | 188.1 | 188.3 | 0.2 |

¹ Feet above confluence with Strong Water Brook

² Feet above limit of detailed study, limit of detailed study is approximately 250 feet downstream of Lowell Street

³ Elevation computed without consideration of coincident flooding effects from Strong Water Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MEADOW BROOK – MEADOW RIVER BRANCH

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Merrimack River | | | | | | | | |
| 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 | 12,080 | 758 | 14,707 | 7.5 | 56.9 | 56.9 | 57.9 | 1.0 |
| D | 14,750 | 520 | 12,153 | 9.1 | 58.2 | 58.2 | 59.0 | 0.8 |
| E | 16,550 | 553 | 9,006 | 12.3 | 59.1 | 59.1 | 59.8 | 0.7 |
| F | 18,500 | 655 | 12,468 | 8.9 | 62.9 | 62.9 | 63.2 | 0.3 |
| G | 18,890 | 545 | 11,455 | 9.7 | 63.4 | 63.4 | 63.7 | 0.3 |
| H | 20,300 | 434 | 9,401 | 11.8 | 64.5 | 64.5 | 64.7 | 0.2 |
| I | 20,600 | 510 | 10,046 | 11.0 | 65.5 | 65.5 | 65.7 | 0.2 |
| J | 21,975 | 452 | 12,223 | 9.1 | 67.2 | 67.2 | 67.4 | 0.2 |
| K | 22,200 | 462 | 11,287 | 9.8 | 67.3 | 67.3 | 67.5 | 0.2 |
| L | 23,500 | 628 | 15,139 | 7.5 | 68.7 | 68.7 | 68.8 | 0.1 |
| M | 25,660 | 756 | 16,631 | 6.7 | 69.8 | 69.8 | 69.9 | 0.1 |
| N | 25,740 | 756 | 16,707 | 6.6 | 69.9 | 69.9 | 70.0 | 0.1 |
| O | 27,050 | 1,760 | 46,653 | 2.4 | 70.7 | 70.7 | 70.8 | 0.1 |
| P | 28,430 | 712 | 9,874 | 11.2 | 70.8 | 70.8 | 70.9 | 0.1 |
| Q | 29,140 | 370 | 5,211 | 21.3 | 79.4 | 79.4 | 79.4 | 0.0 |
| R | 29,220 | 360 | 7,656 | 14.5 | 84.8 | 84.8 | 84.8 | 0.0 |
| S | 30,190 | 390 | 6,878 | 16.1 | 86.8 | 86.8 | 86.8 | 0.0 |
| T | 31,160 | 315 | 7,211 | 15.4 | 89.6 | 89.6 | 89.6 | 0.0 |
| U | 31,240 | 315 | 7,926 | 14.0 | 91.9 | 91.9 | 91.9 | 0.0 |
| 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 |

¹ Feet above county boundary, county boundary is approximately 21,175 feet downstream of Hunts Falls Bridge

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MERRIMACK RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Merrimack River (continued) | | | | | | | | |
| AA | 59,071 ¹ | 720 | 17,145 | 5.9 | 104.3 | 104.3 | 105.2 | 0.9 |
| AB | 62,873 ¹ | 340 | 10,928 | 9.3 | 104.8 | 104.8 | 105.7 | 0.9 |
| AC | 65,354 ¹ | 500 | 14,177 | 7.2 | 106.1 | 106.1 | 107.0 | 0.9 |
| AD | 67,572 ¹ | 390 | 13,596 | 7.5 | 106.7 | 106.7 | 107.5 | 0.8 |
| AE | 70,212 ¹ | 570 | 14,881 | 6.9 | 107.3 | 107.3 | 108.2 | 0.9 |
| AF | 73,961 ¹ | 490 | 15,007 | 6.8 | 108.1 | 108.1 | 109.0 | 0.9 |
| Mill Brook 1 | | | | | | | | |
| A | 1,880 ² | 87 | 418 | 0.2 | 122.0 | 120.9 ³ | 120.9 | 0.0 |
| B | 4,175 ² | 98 | 482 | 0.2 | 125.0 | 125.0 | 125.0 | 0.0 |
| C | 7,330 ² | 145 | 349 | 0.3 | 127.8 | 127.8 | 127.9 | 0.1 |

¹ Feet above county boundary, county boundary is approximately 21,175 feet downstream of Hunts Falls Bridge

² Feet above confluence with Pine Brook

³ Elevation computed without consideration of backwater effects from Sudbury River

| | | |
|----------------|---|---------------------------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | | MERRIMACK RIVER – MILL BROOK 1 |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Mill Brook 2 | | | | | | | | |
| A | 1,290 ¹ | 14 | 17 | 6.3 | 119.3 | 112.8 ³ | 112.8 | 0.0 |
| B | 1,496 ¹ | 100 | 270 | 0.4 | 119.3 | 118.3 ³ | 118.3 | 0.0 |
| C | 1,786 ¹ | 140 | 819 | 0.1 | 119.3 | 118.4 ³ | 118.4 | 0.0 |
| D | 3,006 ¹ | 25 | 54 | 10.5 | 119.7 | 119.7 | 119.9 | 0.2 |
| E | 3,500 ¹ | 30 | 234 | 2.4 | 127.2 | 127.2 | 127.7 | 0.5 |
| F | 3,960 ¹ | 40 | 283 | 2.0 | 127.3 | 127.3 | 128.0 | 0.7 |
| G | 4,360 ¹ | 40 | 288 | 2.0 | 127.3 | 127.3 | 128.1 | 0.8 |
| H | 5,500 ¹ | 120 | 948 | 0.6 | 127.6 | 127.6 | 128.5 | 0.9 |
| I | 8,100 ¹ | 120 | 1,047 | 0.2 | 127.6 | 127.6 | 128.6 | 1.0 |
| J | 8,350 ¹ | 200 | 1,744 | 0.1 | 127.6 | 127.6 | 128.6 | 1.0 |
| K | 9,665 ¹ | 200 | 1,086 | 0.2 | 127.6 | 127.6 | 128.6 | 1.0 |
| L | 13,240 ¹ | 200 | 921 | 0.2 | 127.6 | 127.6 | 128.6 | 1.0 |
| M | 14,375 ¹ | 100 | 165 | 0.7 | 129.1 | 129.1 | 129.1 | 0.0 |
| N | 14,740 ¹ | 400 | 1,274 | 0.1 | 132.4 | 132.4 | 132.4 | 0.0 |
| Mill Brook 3 | | | | | | | | |
| A | 30 ² | 78* | 374 | 1.4 | 7.2 | 0.6 ⁴ | 0.6 | 0.0 |
| B | 890 ² | 44* | 227 | 2.1 | 7.3 | 6.8 ⁴ | 6.8 | 0.0 |
| C | 930 ² | 48* | 375 | 1.3 | 7.3 | 6.9 ⁴ | 7.0 | 0.1 |
| D | 2,000 ² | 37* | 126 | 5.3 | 7.4 | 6.2 ⁴ | 6.2 | 0.0 |
| E | 3,090 ² | 63* | 115 | 5.5 | 10.8 | 10.8 | 10.9 | 0.1 |
| F | 3,550 ² | 39 | 111 | 5.0 | 17.3 | 17.3 | 17.6 | 0.3 |
| G | 4,930 ² | 23 | 86 | 5.8 | 33.2 | 33.2 | 33.4 | 0.2 |
| H | 5,390 ² | 29 | 67 | 7.4 | 38.0 | 38.0 | 38.0 | 0.0 |
| I | 5,610 ² | 113* | 197 | 2.3 | 42.3 | 42.3 | 42.4 | 0.1 |
| J | 6,670 ² | 26* | 180 | 2.6 | 50.6 | 50.6 | 50.7 | 0.1 |

¹ Feet above confluence with Concord River

² Feet above confluence with Lower Mystic Lake

* The 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

³ Elevation computed without consideration of backwater effects from Concord River

⁴ Elevation computed without consideration of backwater effects from Lower Mystic Lake

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MILL BROOK 2 – MILL BROOK 3

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Mill Brook 3 (continued) | | | | | | | | |
| K | 6,810 | 21 | 84 | 5.5 | 54.2 | 54.2 | 54.2 | 0.0 |
| L | 7,010 | 8* | 50 | 9.2 | 57.2 | 57.2 | 57.2 | 0.0 |
| M | 8,640 | 23* | 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* | 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 |
| V | 11,600 | 19 | 63 | 5.4 | 111.8 | 111.8 | 111.7 | 0.0 |
| W | 11,750 | 17* | 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* | 577 | 0.4 | 154.2 | 154.2 | 154.3 | 0.1 |
| AA | 14,770 | 181* | 360 | 0.6 | 154.2 | 154.2 | 154.4 | 0.2 |
| AB | 15,490 | 36* | 128 | 0.7 | 154.5 | 154.5 | 154.6 | 0.1 |
| AC | 16,970 | 32* | 82 | 1.0 | 154.7 | 154.7 | 154.7 | 0.0 |
| AD | 18,010 | 24* | 39 | 2.2 | 162.8 | 162.8 | 162.8 | 0.0 |
| AE | 19,540 | 50* | 716 | 1.7 | 164.7 | 164.7 | 164.6 | 0.0 |

¹ Feet above confluence with Lower Mystic Lake

* The 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 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MILL BROOK 3

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Mill Pond Tributary | | | | | | | | |
| A | 929 ¹ | 449 | 3,052 | 0.1 | 216.2 | 216.2 | 216.2 | 0.0 |
| B | 1,943 ¹ | 195 | 722 | 0.1 | 216.2 | 216.2 | 216.2 | 0.0 |
| C | 3,538 ¹ | 130 | 240 | 0.1 | 217.0 | 217.0 | 217.0 | 0.0 |
| D | 5,739 ¹ | 20 | 32 | 1.1 | 217.6 | 217.6 | 218.5 | 0.9 |
| Mill River | | | | | | | | |
| A | 1,100 ² | 27 | 212 | 1.4 | 53.9 | 53.9 | 54.9 | 1.0 |
| B | 1,422 ² | 33 | 239 | 1.2 | 54.3 | 54.3 | 55.3 | 1.0 |
| C | 2,477 ² | 17 | 124 | 2.4 | 55.1 | 55.1 | 56.1 | 1.0 |
| D | 2,842 ² | 81 | 381 | 0.8 | 56.2 | 56.2 | 57.0 | 0.8 |
| E | 4,847 ² | 239 | 1,221 | 0.2 | 56.3 | 56.3 | 57.1 | 0.8 |
| F | 6,062 ² | 15 | 90 | 3.3 | 56.3 | 56.3 | 57.2 | 0.9 |
| G | 6,192 ² | 13 | 96 | 3.1 | 57.1 | 57.1 | 57.7 | 0.6 |
| H | 6,472 ² | 17 | 119 | 2.5 | 57.3 | 57.3 | 58.0 | 0.7 |
| I | 6,580 ² | 44 | 229 | 0.6 | 57.9 | 57.9 | 58.7 | 0.8 |
| J | 8,030 ² | 68 | 423 | 0.3 | 58.0 | 58.0 | 58.7 | 0.7 |
| K | 8,210 ² | 52 | 175 | 0.8 | 58.0 | 58.0 | 58.7 | 0.7 |
| L | 8,415 ² | 176 | 1,146 | 0.1 | 58.0 | 58.0 | 58.7 | 0.7 |
| M | 9,045 ² | 126 | 622 | 0.2 | 58.0 | 58.0 | 58.8 | 0.8 |
| N | 9,905 ² | 14 | 79 | 1.8 | 58.1 | 58.1 | 58.8 | 0.7 |
| O | 10,105 ² | 6 | 17 | 3.9 | 59.1 | 59.1 | 59.6 | 0.5 |
| P | 11,010 ² | 31 | 102 | 0.6 | 60.1 | 60.1 | 60.9 | 0.8 |
| Q | 11,725 ² | 7 | 15 | 4.4 | 64.6 | 64.6 | 64.9 | 0.3 |

¹ Feet above confluence with Beaver Brook 4

² Feet above confluence with Saugus River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MILL POND TRIBUTARY – MILL RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Mongo Brook | | | | | | | | |
| A | 121 ¹ | 29 | 200 | 0.2 | 115.7 | 115.7 | 116.7 | 1.0 |
| B | 401 ¹ | 23 | 157 | 0.3 | 115.7 | 115.7 | 116.7 | 1.0 |
| C | 628 ¹ | 10 | 68 | 0.7 | 115.7 | 115.7 | 116.7 | 1.0 |
| D | 755 ¹ | 19 | 45 | 0.8 | 115.8 | 115.8 | 116.8 | 1.0 |
| E | 1,468 ¹ | 15 | 28 | 1.3 | 116.4 | 116.4 | 117.0 | 0.6 |
| F | 1,932 ¹ | 65 | 92 | 0.4 | 116.7 | 116.7 | 117.1 | 0.4 |
| G | 2,064 ¹ | 70 | 76 | 0.6 | 116.8 | 116.8 | 117.2 | 0.4 |
| H | 2,276 ¹ | 15 | 88 | 0.5 | 116.8 | 116.8 | 117.3 | 0.5 |
| I | 2,534 ¹ | 20 | 100 | 0.4 | 116.8 | 116.8 | 117.3 | 0.5 |
| J | 2,930 ¹ | 30 | 150 | 0.2 | 117.6 | 117.6 | 118.6 | 1.0 |
| K | 3,115 ¹ | 15 | 100 | 0.4 | 117.6 | 117.6 | 118.6 | 1.0 |
| L | 3,242 ¹ | 25 | 113 | 0.3 | 117.6 | 117.6 | 118.6 | 1.0 |
| Morse Brook | | | | | | | | |
| A | 2,540 ² | 100 | 385 | 0.2 | 216.8 | 211.8 ⁴ | 212.3 | 0.5 |
| B | 4,975 ² | 11 | 20 | 4.0 | 221.8 | 221.8 | 222.2 | 0.4 |
| C | 5,255 ² | 15 | 32 | 2.5 | 222.4 | 222.4 | 223.1 | 0.7 |
| Mowry Brook | | | | | | | | |
| A | 493 ³ | 33 | 44 | 1.9 | 255.1 | 246.4 ⁵ | 247.3 | 0.9 |
| B | 1,123 ³ | 15 | 15 | 5.4 | 256.5 | 256.5 | 256.5 | 0.0 |
| C | 2,008 ³ | 35 | 70 | 1.2 | 265.9 | 265.9 | 266.1 | 0.2 |
| D | 2,750 ³ | 40 | 135 | 0.6 | 276.6 | 276.6 | 276.6 | 0.0 |
| E | 3,490 ³ | 9 | 12 | 6.8 | 286.9 | 286.9 | 286.9 | 0.0 |
| F | 4,055 ³ | 30 | 62 | 1.3 | 301.8 | 301.8 | 302.0 | 0.2 |

¹ Feet above confluence with Elm Brook

² Feet above confluence with Nashua River

³ Feet above confluence with Sudbury Reservoir

⁴ Elevation computed without consideration of backwater effects from Nashua River

⁵ Elevation computed without consideration of backwater effects from Sudbury Reservoir

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MONGO BROOK – MORSE BROOK – MOWRY BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Mud Pond Brook | | | | | | | | |
| A | 1,214 ¹ | 21 | 20 | 5.1 | 89.0 | 89.0 | 89.0 | 0.0 |
| B | 1,320 ¹ | 22 | 107 | 0.9 | 93.0 | 93.0 | 93.0 | 0.0 |
| C | 2,006 ¹ | 10 | 20 | 3.8 | 93.2 | 93.2 | 93.5 | 0.3 |
| D | 3,168 ¹ | 55 | 81 | 0.9 | 97.4 | 97.4 | 98.4 | 1.0 |
| Mulpus Brook | | | | | | | | |
| A | 1,525 ² | 60 | 201 | 9.7 | 221.8 | 221.8 | 222.2 | 0.4 |
| B | 2,665 ² | 50 | 193 | 10.1 | 242.5 | 242.5 | 242.6 | 0.1 |
| C | 3,390 ² | 108 | 387 | 5.0 | 256.9 | 256.9 | 257.9 | 1.0 |
| D | 3,860 ² | 35 | 172 | 11.3 | 264.0 | 264.0 | 264.0 | 0.0 |
| E | 4,400 ² | 36 | 227 | 8.6 | 266.6 | 266.6 | 267.6 | 1.0 |
| F | 5,000 ² | 90 | 589 | 3.3 | 272.6 | 272.6 | 272.7 | 0.1 |
| G | 6,090 ² | 95 | 733 | 2.7 | 274.8 | 274.8 | 275.8 | 1.0 |
| H | 7,940 ² | 115 | 419 | 4.6 | 277.3 | 277.3 | 277.8 | 0.5 |
| I | 9,005 ² | 680 | 2,954 | 0.7 | 277.9 | 277.9 | 278.6 | 0.7 |
| J | 10,515 ² | 130 | 642 | 3.0 | 278.3 | 278.3 | 279.0 | 0.7 |
| K | 11,500 ² | 80 | 736 | 2.6 | 284.3 | 284.3 | 284.3 | 0.0 |
| L | 12,595 ² | 145 | 1,082 | 1.8 | 284.4 | 284.4 | 284.5 | 0.1 |
| M | 13,100 ² | 125 | 1,211 | 1.8 | 286.5 | 286.5 | 286.5 | 0.0 |
| N | 14,100 ² | 160 | 1,609 | 1.3 | 286.5 | 286.5 | 286.6 | 0.1 |
| O | 19,300 ² | 250 | 650 | 3.3 | 288.1 | 288.1 | 288.9 | 0.8 |

¹ Feet above confluence with Shawsheen River

² Feet above confluence with Nashua River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MUD POND BROOK – MULPUS BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Munroe Brook | | | | | | | | |
| A | 1,595 ¹ | 40 | 88 | 4.9 | 160.3 | 160.3 | 161.3 | 1.0 |
| B | 1,690 ¹ | 62 | 339 | 1.2 | 163.0 | 163.0 | 164.0 | 1.0 |
| C | 1,795 ¹ | 148 | 1,304 | 0.4 | 163.0 | 163.0 | 164.0 | 1.0 |
| D | 1,901 ¹ | 41 | 215 | 2.0 | 163.0 | 163.0 | 164.0 | 1.0 |
| E | 2,587 ¹ | 79 | 424 | 1.0 | 163.2 | 163.2 | 164.2 | 1.0 |
| F | 2,830 ¹ | 81 | 479 | 0.8 | 164.0 | 164.0 | 165.0 | 1.0 |
| G | 3,300 ¹ | 87 | 453 | 0.7 | 164.0 | 164.0 | 165.0 | 1.0 |
| H | 3,501 ¹ | 19 | 96 | 3.1 | 164.1 | 164.1 | 165.1 | 1.0 |
| I | 3,765 ¹ | 55 | 210 | 1.4 | 164.6 | 164.6 | 165.6 | 1.0 |
| J | 4,873 ¹ | 16 | 113 | 2.7 | 165.6 | 165.6 | 166.5 | 0.9 |
| K | 5,137 ¹ | 30 | 255 | 1.2 | 166.5 | 166.5 | 167.0 | 0.5 |
| L | 5,243 ¹ | 16 | 69 | 4.4 | 166.5 | 166.5 | 167.0 | 0.5 |
| M | 5,507 ¹ | 16 | 70 | 3.4 | 167.9 | 167.9 | 168.5 | 0.6 |
| Mystic River | | | | | | | | |
| A | 300 ² | 810 [*] | 3,445 | 0.8 | 4.4 | 0.5 ³ | 1.0 | 0.5 |
| B | 510 ² | 454 | 3,583 | 0.7 | 4.4 | 0.5 ³ | 1.0 | 0.5 |
| C | 2,770 ² | 1,076 [*] | 5,650 | 0.4 | 4.4 | 0.5 ³ | 1.0 | 0.5 |
| D | 7,430 ² | 231 | 1,572 | 1.1 | 4.4 | 0.6 ³ | 1.1 | 0.5 |
| E | 11,440 ² | 150 | 1,368 | 1.8 | 4.7 | 3.2 ³ | 4.1 | 0.9 |
| F | 13,690 ² | 126 | 1,245 | 1.9 | 4.9 | 3.6 ³ | 4.4 | 0.8 |
| G | 14,270 ² | 115 [*] | 1,157 | 2.1 | 5.7 | 4.5 ³ | 5.3 | 0.8 |
| H | 14,500 ² | 155 | 1,449 | 1.6 | 5.8 | 5.8 ³ | 5.8 | 0.0 |
| I | 16,010 ² | 230 | 1,704 | 1.4 | 6.0 | 5.9 ³ | 5.9 | 0.0 |
| J | 18,280 ² | 368 | 1,934 | 1.2 | 6.2 | 5.9 ³ | 5.9 | 0.0 |
| K | 18,970 ² | 147 | 1,240 | 1.8 | 6.3 | 5.9 ³ | 6.0 | 0.1 |
| L | 19,590 ² | 177 | 1,445 | 1.6 | 6.5 | 5.9 ³ | 6.4 | 0.5 |
| M | 22,230 ² | 226 [*] | 1,934 | 1.2 | 6.7 | 6.2 ³ | 7.1 | 0.9 |
| N | 24,620 ² | 351 | 2,049 | 1.1 | 6.9 | 6.5 ³ | 6.9 | 0.4 |

¹ Feet above Arlington Reservoir

² Feet above Amelia Earhart Dam

³ Flooding controlled by Boston Harbor

* The 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 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

MUNROE BROOK – MYSTIC RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nagog Brook | | | | | | | | |
| 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 |

¹ Feet above confluence with Nashoba Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NAGOG BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nashoba Brook | | | | | | | | |
| A | 160 | 80 | 394 | 4.1 | 121.4 | 117.0 ² | 117.7 | 0.7 |
| B | 930 | 100 | 339 | 4.7 | 121.4 | 118.3 ² | 118.7 | 0.4 |
| C | 6,618 | 40 | 215 | 3.9 | 123.3 | 123.3 | 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 |
| 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 |

¹ Feet above confluence with Assabet River

² Elevation computed without consideration of backwater effects from Assabet River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NASHOBA BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nashoba Brook (continued) | | | | | | | | |
| 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 | 20/20 ² | 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 |
| 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 |

¹ Feet above confluence with Assabet River

² Split flow area – right width looking downstream/left width looking downstream

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NASHOBA BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nashua River | | | | | | | | |
| A | 686 | 369 | 4,915 | 3.6 | 176.1 | 176.1 | 177.1 | 1.0 |
| B | 1,214 | 918 | 8,299 | 2.1 | 176.4 | 176.4 | 177.4 | 1.0 |
| C | 2,059 | 721 | 5,104 | 3.5 | 176.4 | 176.4 | 177.4 | 1.0 |
| D | 2,957 | 323 | 3,709 | 4.8 | 176.7 | 176.7 | 177.7 | 1.0 |
| E | 3,802 | 325 | 3,672 | 4.8 | 177.1 | 177.1 | 178.1 | 1.0 |
| F | 3,907 | 230 | 3,588 | 5.0 | 177.2 | 177.2 | 178.2 | 1.0 |
| G | 4,752 | 210 | 3,460 | 5.1 | 177.4 | 177.4 | 178.4 | 1.0 |
| H | 5,755 | 175 | 2,790 | 6.4 | 177.6 | 177.6 | 178.6 | 1.0 |
| I | 6,494 | 175 | 2,820 | 6.3 | 178.1 | 178.1 | 179.0 | 0.9 |
| J | 7,022 | 125 | 2,178 | 8.2 | 178.1 | 178.1 | 179.0 | 0.9 |
| K | 7,550 | 272 | 2,984 | 6.0 | 178.8 | 178.8 | 179.7 | 0.9 |
| L | 9,134 | 157 | 2,702 | 6.6 | 179.5 | 179.5 | 180.4 | 0.9 |
| M | 10,243 | 308 | 3,831 | 4.6 | 180.3 | 180.3 | 181.1 | 0.8 |
| N | 11,510 | 222 | 3,246 | 5.5 | 180.7 | 180.7 | 181.5 | 0.8 |
| O | 12,936 | 663 | 4,446 | 4.0 | 181.4 | 181.4 | 182.2 | 0.8 |
| P | 13,570 | 618 | 5,456 | 3.3 | 181.6 | 181.6 | 182.4 | 0.8 |
| Q | 14,520 | 1,019 | 10,614 | 1.4 | 182.1 | 182.1 | 182.9 | 0.8 |
| R | 15,629 | 125 | 1,962 | 7.5 | 182.1 | 182.1 | 182.9 | 0.8 |
| S | 16,104 | 219 | 3,265 | 4.5 | 182.5 | 182.5 | 183.3 | 0.8 |
| T | 16,368 | 365 | 3,529 | 4.2 | 182.7 | 182.7 | 183.5 | 0.8 |
| U | 16,790 | 240 | 3,691 | 4.0 | 182.9 | 182.9 | 183.8 | 0.9 |
| V | 17,107 | 167 | 2,388 | 6.1 | 182.9 | 182.9 | 183.8 | 0.9 |
| W | 17,899 | 200 | 2,676 | 5.5 | 183.4 | 183.4 | 184.2 | 0.8 |
| X | 18,533 | 267 | 4,561 | 3.2 | 183.9 | 183.9 | 184.7 | 0.8 |
| Y | 19,061 | 125 | 1,183 | 12.4 | 183.9 | 183.9 | 184.7 | 0.8 |
| Z | 19,166 | 93 | 900 | 16.3 | 183.9 | 183.9 | 184.7 | 0.8 |

¹ Feet above Massachusetts/New Hampshire State Boundary, State Boundary is approximately 17,625 feet downstream of Groton Street

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NASHUA RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nashua River (continued) | | | | | | | | |
| AA | 20,117 | 376 | 5,040 | 2.9 | 202.4 | 202.4 | 202.4 | 0.0 |
| AB | 21,384 | 252 | 3,053 | 4.8 | 202.5 | 202.5 | 202.5 | 0.0 |
| AC | 22,070 | 350 | 4,071 | 3.6 | 202.8 | 202.8 | 202.8 | 0.0 |
| AD | 22,862 | 545 | 6,560 | 2.2 | 203.0 | 203.0 | 203.0 | 0.0 |
| AE | 23,126 | 250 | 3,537 | 4.2 | 203.1 | 203.1 | 203.1 | 0.0 |
| AF | 24,130 | 1,590 | 14,147 | 1.0 | 203.3 | 203.3 | 203.3 | 0.0 |
| AG | 25,502 | 411 | 4,626 | 3.2 | 203.4 | 203.4 | 203.4 | 0.0 |
| AH | 25,978 | 2,224 | 25,060 | 0.6 | 203.5 | 203.5 | 203.6 | 0.1 |
| AI | 27,245 | 2,185 | 18,231 | 0.8 | 203.6 | 203.6 | 203.7 | 0.1 |
| AJ | 29,093 | 803 | 6,200 | 2.4 | 203.6 | 203.6 | 203.7 | 0.1 |
| AK | 30,994 | 1,040 | 6,248 | 2.4 | 203.9 | 203.9 | 204.1 | 0.2 |
| AL | 33,581 | 1,590 | 6,088 | 2.4 | 204.2 | 204.2 | 204.4 | 0.2 |
| AM | 37,066 | 1,140 | 6,440 | 2.3 | 204.8 | 204.8 | 205.1 | 0.3 |
| AN | 37,594 | 775 | 5,017 | 2.9 | 204.9 | 204.9 | 205.2 | 0.3 |
| AO | 38,174 | 980 | 6,003 | 2.4 | 205.1 | 205.1 | 205.6 | 0.5 |
| AP | 38,755 | 1,117 | 6,430 | 2.3 | 205.8 | 205.8 | 206.3 | 0.5 |
| AQ | 39,547 | 595 | 3,744 | 3.9 | 205.8 | 205.8 | 206.3 | 0.5 |
| AR | 40,286 | 580 | 3,847 | 3.8 | 206.1 | 206.1 | 206.6 | 0.5 |
| AS | 46,675 | 890 | 5,513 | 2.7 | 207.9 | 207.9 | 208.6 | 0.7 |
| AT | 48,893 | 1,111 | 7,964 | 1.8 | 208.3 | 208.3 | 209.1 | 0.8 |
| AU | 50,635 | 856 | 6,040 | 2.4 | 208.6 | 208.6 | 209.5 | 0.9 |
| AV | 53,645 | 1,328 | 10,089 | 1.4 | 209.2 | 209.2 | 210.1 | 0.9 |
| AW | 55,282 | 170 | 2,747 | 5.2 | 210.6 | 210.6 | 211.6 | 1.0 |
| AX | 56,496 | 220 | 3,006 | 4.8 | 211.1 | 211.1 | 212.0 | 0.9 |
| AY | 57,552 | 325 | 3,523 | 4.1 | 211.5 | 211.5 | 212.5 | 1.0 |
| AZ | 58,872 | 200 | 3,289 | 4.4 | 211.9 | 211.9 | 212.8 | 0.9 |

¹ Feet above Massachusetts/New Hampshire State Boundary, State Boundary is approximately 17,625 feet downstream of Groton Street

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NASHUA RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nashua River (continued) | | | | | | | | |
| BA | 61,770 | 1,164 | 9,335 | 1.5 | 212.5 | 212.5 | 213.4 | 0.9 |
| BB | 62,938 | 517 | 4,708 | 3.1 | 212.6 | 212.6 | 213.5 | 0.9 |
| BC | 63,994 | 907 | 4,655 | 3.1 | 212.8 | 212.8 | 213.6 | 0.8 |
| BD | 66,053 | 718 | 4,698 | 3.1 | 213.4 | 213.4 | 214.2 | 0.8 |
| BE | 66,528 | 526 | 4,011 | 3.1 | 214.4 | 214.4 | 215.1 | 0.7 |
| BF | 67,230 | 649 | 6,529 | 1.9 | 214.7 | 214.7 | 215.4 | 0.7 |
| BG | 69,326 | 586 | 5,169 | 2.4 | 215.4 | 215.4 | 216.2 | 0.8 |
| BH | 71,914 | 879 | 7,688 | 1.6 | 216.0 | 216.0 | 216.8 | 0.8 |
| BI | 73,022 | 1,433 | 12,548 | 1.0 | 216.2 | 216.2 | 217.0 | 0.8 |
| BJ | 74,131 | 1,014 | 7,170 | 1.7 | 216.2 | 216.2 | 217.0 | 0.8 |
| BK | 74,290 | 843 | 5,808 | 2.1 | 216.3 | 216.3 | 217.1 | 0.8 |
| BL | 76,666 | 1,172* | 8,851 | 1.4 | 216.9 | 216.9 | 217.7 | 0.8 |
| BM | 77,141 | 820* | 6,723 | 1.8 | 217.0 | 217.0 | 217.8 | 0.8 |
| BN | 78,091 | 1,554* | 12,447 | 0.9 | 217.1 | 217.1 | 217.9 | 0.8 |
| BO | 79,358 | 647 | 4,736 | 2.4 | 217.1 | 217.1 | 217.9 | 0.8 |
| BP | 79,781 | 530 | 5,010 | 2.3 | 217.8 | 217.8 | 218.7 | 0.9 |
| BQ | 80,784 | 450 | 4,106 | 2.8 | 218.0 | 218.0 | 218.9 | 0.9 |
| BR | 81,576 | 180 | 2,384 | 4.9 | 218.0 | 218.0 | 218.9 | 0.9 |
| BS | 81,998 | 185 | 3,326 | 3.5 | 221.0 | 221.0 | 222.0 | 1.0 |
| BT | 82,156 | 126 | 1,369 | 8.6 | 221.2 | 221.2 | 222.0 | 0.8 |
| BU | 84,110 | 400 | 4,195 | 2.8 | 222.3 | 222.3 | 223.1 | 0.8 |
| BV | 86,117 | 281 | 2,804 | 4.2 | 222.5 | 222.5 | 223.2 | 0.7 |
| BW | 87,648 | 240 | 2,790 | 4.2 | 222.9 | 222.9 | 223.6 | 0.7 |
| BX | 88,070 | 450 | 4,139 | 2.9 | 223.4 | 223.4 | 224.3 | 0.9 |
| BY | 88,704 | 520 | 4,018 | 2.9 | 223.5 | 223.5 | 224.3 | 0.8 |

¹ Feet above Massachusetts/New Hampshire State Boundary, State Boundary is approximately 17,625 feet downstream of Groton Street

* Combined Nashua River/Nonacoicus Brook 1 floodway

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NASHUA RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nashua River (continued) | | | | | | | | |
| BZ | 89,918 ¹ | 280 | 2,844 | 4.1 | 223.6 | 223.6 | 224.4 | 0.8 |
| CA | 91,080 ¹ | 442 | 3,708 | 3.2 | 223.9 | 223.9 | 224.7 | 0.8 |
| Nissitissit River | | | | | | | | |
| A | 3,580 ² | 145 | 922 | 3.6 | 182.1 | 180.7 ³ | 181.7 | 1.0 |
| B | 4,180 ² | 123 | 814 | 4.0 | 182.1 | 181.6 ³ | 182.5 | 0.9 |
| C | 4,630 ² | 70 | 494 | 6.7 | 182.3 | 182.3 | 183.2 | 0.9 |
| D | 4,810 ² | 121 | 980 | 3.4 | 183.4 | 183.4 | 184.1 | 0.7 |
| E | 5,280 ² | 242 | 1,091 | 3.0 | 183.8 | 183.8 | 184.4 | 0.6 |
| F | 6,050 ² | 81 | 373 | 8.8 | 187.0 | 187.0 | 187.1 | 0.1 |
| G | 6,450 ² | 90 | 472 | 7.0 | 191.0 | 191.0 | 191.0 | 0.0 |
| H | 6,600 ² | 123 | 576 | 5.7 | 198.9 | 198.9 | 199.2 | 0.3 |
| I | 6,850 ² | 240 | 1,003 | 3.3 | 199.6 | 199.6 | 200.0 | 0.4 |
| J | 8,100 ² | 88 | 775 | 4.2 | 200.7 | 200.7 | 201.1 | 0.4 |
| K | 9,600 ² | 123 | 765 | 4.3 | 202.3 | 202.3 | 202.7 | 0.4 |
| L | 11,070 ² | 74 | 568 | 5.8 | 204.5 | 204.5 | 204.7 | 0.2 |
| M | 12,700 ² | 103 | 797 | 4.1 | 206.7 | 206.7 | 207.0 | 0.3 |
| N | 14,270 ² | 95 | 653 | 5.0 | 208.7 | 208.7 | 209.0 | 0.3 |
| O | 14,520 ² | 65 | 627 | 5.2 | 209.2 | 209.2 | 209.4 | 0.2 |
| P | 16,650 ² | 140 | 1,330 | 2.5 | 210.2 | 210.2 | 210.6 | 0.4 |

¹ Feet above Massachusetts/New Hampshire State Boundary, State Boundary is approximately 17,625 feet downstream of Groton Street

² Feet above confluence with Nashua River

³ Elevation computed without consideration of backwater effects from Nashua River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NASHUA RIVER – NISSITISSIT RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Nonacoicus Brook 1 | | | | | | | | |
| A | 4,165 ¹ | 190 | 1,123 | 2.1 | 217.1 | 211.1 ³ | 211.8 | 0.7 |
| B | 4,990 ¹ | 290 | 1,737 | 1.4 | 217.1 | 211.3 ³ | 212.0 | 0.7 |
| C | 5,500 ¹ | 575 | 1,660 | 1.4 | 217.1 | 211.5 ³ | 212.2 | 0.7 |
| D | 6,130 ¹ | 491 | 1,987 | 1.2 | 217.1 | 211.6 ³ | 212.3 | 0.7 |
| E | 6,900 ¹ | 315 | 1,436 | 1.7 | 217.1 | 211.8 ³ | 212.5 | 0.7 |
| F | 7,285 ¹ | 40 | 228 | 3.2 | 217.1 | 214.1 ³ | 214.1 | 0.0 |
| G | 7,510 ¹ | 110 | 768 | 0.9 | 217.8 | 217.8 | 217.8 | 0.0 |
| H | 8,100 ¹ | 390 | 2,389 | 0.3 | 220.8 | 220.8 | 220.8 | 0.0 |
| I | 8,370 ¹ | 255 | 1,543 | 0.5 | 220.8 | 220.8 | 220.8 | 0.0 |
| J | 8,532 ¹ | 162 | 675 | 1.1 | 220.9 | 220.9 | 220.9 | 0.0 |
| K | 8,890 ¹ | 185 | 1,791 | 0.4 | 221.0 | 221.0 | 221.0 | 0.0 |
| L | 12,066 ¹ | 990 | 9,370 | 0.1 | 226.9 | 226.9 | 226.9 | 0.0 |
| M | 13,125 ¹ | 450 | 6,752 | 0.1 | 226.9 | 226.9 | 226.9 | 0.0 |
| N | 14,250 ¹ | 320 | 4,210 | 0.2 | 226.9 | 226.9 | 226.9 | 0.0 |
| O | 14,600 ¹ | 100 | 1,137 | 0.6 | 227.0 | 227.0 | 227.0 | 0.0 |
| Nonacoicus Brook 2 | | | | | | | | |
| A | 360 ² | 240 | 1,187 | 0.9 | 227.2 | 221.2 ⁴ | 221.4 | 0.2 |

¹ Feet above confluence with Nashua River

² Feet above confluence with Nonacoicus Brook 1

³ Elevation computed without consideration of backwater effects from Nashua River

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

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NONACOICUS BROOK 1 – NONACOICUS BROOK 2

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| North Lexington Brook | | | | | | | | |
| A | 422 | 750 | 2,035 | 0.5 | 116.1 | 116.1 | 116.3 | 0.2 |
| B | 1,426 | 856 | 3,033 | 0.4 | 116.1 | 116.1 | 116.4 | 0.3 |
| C | 1,637 | 1,303 | 6,715 | 0.2 | 116.6 | 116.6 | 117.2 | 0.6 |
| D | 2,318 | 904 | 2,767 | 0.4 | 116.7 | 116.7 | 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 |

¹ Feet above confluence with Shawsheen River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

NORTH LEXINGTON BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Pages Brook | | | | | | | | |
| A | 1,350 ¹ | 250 | 1,676 | 0.2 | 118.8 | 118.8 | 119.4 | 0.6 |
| B | 1,800 ¹ | 250 | 1,373 | 0.3 | 119.2 | 119.2 | 119.5 | 0.3 |
| C | 2,575 ¹ | 220 | 896 | 0.4 | 119.2 | 119.2 | 119.5 | 0.3 |
| D | 3,595 ¹ | 41 | 57 | 6.1 | 119.3 | 119.3 | 119.3 | 0.0 |
| E | 4,790 ¹ | 50 | 1,606 | 0.1 | 120.6 | 120.6 | 121.1 | 0.5 |
| F | 5,675 ¹ | 383 | 1,024 | 0.2 | 120.6 | 120.6 | 121.1 | 0.5 |
| G | 6,815 ¹ | 35 | 87 | 2.3 | 120.6 | 120.6 | 121.0 | 0.4 |
| H | 8,035 ¹ | 50 | 512 | 0.4 | 121.0 | 121.0 | 121.5 | 0.5 |
| I | 9,450 ¹ | 413 | 1,265 | 0.2 | 124.0 | 124.0 | 124.0 | 0.0 |
| J | 10,650 ¹ | 868 | 2,740 | 0.1 | 124.0 | 124.0 | 124.0 | 0.0 |
| K | 12,595 ¹ | 20 | 379 | 0.5 | 137.6 | 137.6 | 137.9 | 0.3 |
| L | 13,255 ¹ | 20 | 58 | 3.4 | 141.2 | 141.2 | 141.3 | 0.1 |
| Pages Brook Branch | | | | | | | | |
| A | 175 ² | 146 | 261 | 1.5 | 120.6 | 118.6 ³ | 118.6 | 0.0 |
| B | 1,375 ² | 176 | 827 | 0.5 | 122.9 | 122.9 | 122.9 | 0.0 |
| C | 2,220 ² | 114 | 435 | 0.9 | 122.9 | 122.9 | 122.9 | 0.0 |
| D | 3,220 ² | 225 | 1,847 | 0.2 | 136.1 | 136.1 | 136.6 | 0.5 |
| E | 3,445 ² | 115 | 701 | 0.5 | 136.1 | 136.1 | 136.7 | 0.6 |
| F | 3,590 ² | 70 | 555 | 0.6 | 136.2 | 136.2 | 136.8 | 0.6 |
| G | 4,280 ² | 83 | 297 | 1.1 | 139.3 | 139.3 | 140.3 | 1.0 |
| H | 4,350 ² | 19 | 47 | 7.1 | 140.0 | 140.0 | 140.1 | 0.1 |
| I | 4,600 ² | 50 | 252 | 1.3 | 147.8 | 147.8 | 148.0 | 0.2 |

¹ Feet above confluence with Concord River

² Feet above confluence with Pages Brook

³ Elevation computed without consideration of backwater effects from Pages Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

PAGES BROOK – PAGES BROOK BRANCH

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Pantry Brook | | | | | | | | |
| A | 7,750 ¹ | 56 | 105 | 2.3 | 121.2 | 114.7 ⁴ | 115.6 | 0.9 |
| B | 9,590 ¹ | 150 | 585 | 0.4 | 123.5 | 123.5 | 123.5 | 0.0 |
| C | 10,640 ¹ | 150 | 252 | 1.0 | 123.8 | 123.8 | 123.8 | 0.0 |
| D | 11,540 ¹ | 190 | 232 | 1.0 | 124.7 | 124.7 | 124.8 | 0.1 |
| E | 12,550 ¹ | 9 | 29 | 8.2 | 131.1 | 131.1 | 132.0 | 0.9 |
| F-O* | * | * | * | * | * | * | * | * |
| Pearl Hill Brook | | | | | | | | |
| A | 2,990 ² | 32 | 106 | 5.2 | 320.8 | 320.8 | 321.3 | 0.5 |
| B | 3,550 ² | 45 | 91 | 6.1 | 328.4 | 328.4 | 328.6 | 0.2 |
| C | 4,640 ² | 25 | 71 | 7.8 | 335.1 | 335.1 | 335.2 | 0.1 |
| D | 7,300 ² | 35 | 84 | 6.6 | 349.5 | 349.5 | 350.0 | 0.5 |
| E | 9,145 ² | 17 | 65 | 8.6 | 364.1 | 364.1 | 364.6 | 0.5 |
| Peppermint Brook | | | | | | | | |
| A | 900 ³ | 31 | 60 | 5.0 | 70.6 | 65.7 ⁵ | 66.1 | 0.4 |
| B | 1,260 ³ | 78 | 405 | 0.7 | 72.5 | 72.4 | 73.4 | 1.0 |
| C | 1,800 ³ | 70 | 453 | 0.7 | 74.0 | 73.9 | 74.7 | 0.8 |
| D | 2,300 ³ | 63 | 235 | 1.3 | 74.3 | 74.2 | 75.2 | 1.0 |
| E | 2,400 ³ | 117 | 833 | 0.4 | 80.0 | 80.0 | 80.7 | 0.7 |
| F | 3,500 ³ | 40 | 333 | 0.9 | 80.0 | 80.0 | 80.7 | 0.7 |
| G | 3,760 ³ | 11 | 85 | 3.4 | 80.0 | 80.0 | 80.7 | 0.7 |
| H | 3,980 ³ | 69 | 280 | 1.0 | 80.1 | 80.1 | 80.8 | 0.7 |
| I | 4,200 ³ | 20 | 107 | 2.7 | 80.1 | 80.1 | 80.8 | 0.7 |
| J | 4,340 ³ | 33 | 82 | 3.0 | 80.8 | 80.8 | 81.3 | 0.5 |

¹ Feet above confluence with Sudbury River

² Feet above confluence with Walker Brook 2

³ Feet above confluence with Beaver Brook 3

⁴ Elevation computed without consideration of backwater effects from Sudbury River

⁵ Elevation computed without consideration of backwater effects from Beaver Brook 3

* No data available

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**PANTRY BROOK – PEARL HILL BROOK –
PEPPERMINT BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Pine Brook | | | | | | | | |
| A | 920 ¹ | 20 | 61 | 6.5 | 122.0 | 111.4 ³ | 112.3 | 0.9 |
| B | 1,930 ¹ | 120 | 436 | 0.9 | 122.0 | 113.6 ³ | 114.1 | 0.5 |
| C | 3,790 ¹ | 77 | 168 | 1.7 | 122.0 | 115.1 ³ | 116.0 | 0.9 |
| D | 4,380 ¹ | 17 | 59 | 5.0 | 122.0 | 118.0 ³ | 118.1 | 0.1 |
| E | 5,270 ¹ | 115 | 300 | 1.0 | 122.0 | 118.4 ³ | 118.9 | 0.5 |
| F | 6,660 ¹ | 75 | 192 | 1.5 | 122.0 | 119.9 ³ | 120.8 | 0.9 |
| Reedy Meadow Brook | | | | | | | | |
| A | 1,130 ² | 136 | 652 | 0.3 | 181.8 | 180.1 ⁴ | 180.1 | 0.0 |
| B | 1,330 ² | 93 | 605 | 0.4 | 181.8 | 181.8 ⁴ | 182.7 | 0.9 |
| C | 1,840 ² | 119 | 772 | 0.3 | 181.8 | 181.8 ⁴ | 182.7 | 0.9 |
| D | 2,440 ² | 64 | 242 | 0.9 | 181.8 | 181.8 ⁴ | 182.7 | 0.9 |
| E | 2,730 ² | 46 | 334 | 0.7 | 186.5 | 186.5 | 187.4 | 0.9 |
| F | 2,963 ² | 63 | 357 | 0.6 | 186.7 | 186.7 | 187.5 | 0.8 |
| G | 3,140 ² | 148 | 1,176 | 0.2 | 187.0 | 187.0 | 187.9 | 0.9 |
| H | 3,890 ² | 224 | 1,344 | 0.2 | 187.0 | 187.0 | 187.9 | 0.9 |
| I | 4,680 ² | 194 | 729 | 0.3 | 187.0 | 187.0 | 187.9 | 0.9 |
| J | 5,720 ² | 35 | 51 | 4.3 | 192.0 | 192.0 | 192.1 | 0.1 |
| K | 6,720 ² | 52 | 64 | 3.4 | 199.5 | 199.5 | 199.9 | 0.4 |
| L | 8,000 ² | 10 | 27 | 8.1 | 220.5 | 220.5 | 220.8 | 0.3 |
| M | 8,650 ² | 49 | 101 | 2.2 | 229.4 | 229.4 | 230.2 | 0.8 |

¹ Feet above confluence with Sudbury River

⁴ Elevation computed without consideration of backwater effects from Nashua River

² Feet above confluence with Nashua River

³ Elevation computed without consideration of backwater effects from Sudbury River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

PINE BROOK – REEDY MEADOW BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Richardson Brook | | | | | | | | |
| A | 160 ¹ | 150 | 1,890 | 0.2 | 59.3 | 59.3 | 60.3 | 1.0 |
| B | 1,150 ¹ | 36 | 167 | 2.3 | 59.3 | 59.3 | 60.3 | 1.0 |
| C | 2,650 ¹ | 120 | 236 | 1.7 | 84.6 | 84.6 | 84.7 | 0.1 |
| D | 4,780 ¹ | 94 | 147 | 1.3 | 87.6 | 87.6 | 87.6 | 0.0 |
| E | 6,210 ¹ | 65 | 350 | 0.5 | 106.6 | 106.6 | 107.4 | 0.8 |
| F | 7,620 ¹ | 40 | 131 | 1.4 | 106.7 | 106.7 | 107.6 | 0.9 |
| G | 8,280 ¹ | 71 | 210 | 0.9 | 109.9 | 109.9 | 110.1 | 0.2 |
| H | 9,240 ¹ | 30 | 181 | 1.1 | 114.3 | 114.3 | 114.3 | 0.0 |
| I | 12,460 ¹ | 10 | 117 | 1.6 | 167.3 | 167.3 | 167.4 | 0.1 |
| River Meadow Brook | | | | | | | | |
| A | 810 ² | 35 | 258 | 4.4 | 76.0 | 76.0 | 76.1 | 0.1 |
| B | 1,350 ² | 40 | 357 | 3.2 | 79.1 | 79.1 | 79.2 | 0.1 |
| C | 3,260 ² | 98 | 554 | 2.0 | 94.8 | 94.8 | 94.8 | 0.0 |
| D | 4,600 ² | 55 | 311 | 3.7 | 97.9 | 97.9 | 98.0 | 0.1 |
| E | 9,745 ² | 65 | 427 | 2.7 | 102.1 | 102.1 | 103.1 | 1.0 |
| F | 12,260 ² | 62 | 319 | 3.1 | 103.4 | 103.4 | 103.6 | 0.2 |
| G | 12,530 ² | 64 | 404 | 2.5 | 103.7 | 103.7 | 103.9 | 0.2 |
| H | 12,987 ² | 88 | 456 | 2.3 | 104.0 | 104.0 | 105.0 | 1.0 |
| I | 13,452 ² | 73 | 484 | 2.1 | 104.8 | 104.8 | 105.6 | 0.8 |
| J | 13,726 ² | 75 | 511 | 2.0 | 105.0 | 105.0 | 105.7 | 0.7 |
| K | 14,152 ² | 77 | 531 | 1.9 | 105.5 | 105.5 | 106.1 | 0.6 |
| L | 14,510 ² | 74 | 459 | 2.2 | 105.8 | 105.8 | 106.4 | 0.6 |
| M | 14,595 ² | 75 | 461 | 2.2 | 105.9 | 105.9 | 106.5 | 0.6 |
| N | 15,283 ² | 93 | 593 | 1.7 | 106.4 | 106.4 | 106.9 | 0.5 |
| O | 15,810 ² | 75 | 455 | 2.3 | 106.9 | 106.9 | 107.3 | 0.4 |
| P | 16,050 ² | 63 | 489 | 2.1 | 107.1 | 107.1 | 107.5 | 0.4 |

¹ Feet above confluence with Merrimack River

² Feet above confluence with Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

RICHARDSON BROOK – RIVER MEADOW BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| River Meadow Brook (continued) | | | | | | | | |
| 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 |
| 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 |

¹ Feet above confluence with Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

RIVER MEADOW BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| River Meadow Brook (continued) | | | | | | | | |
| 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 |

¹ Feet above confluence with Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

RIVER MEADOW BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Run Brook | | | | | | | | |
| A | 1,165 ¹ | 15 | 27 | 3.5 | 150.5 | 150.5 | 150.7 | 0.2 |
| B | 1,700 ¹ | 16 | 43 | 2.2 | 153.0 | 153.0 | 153.8 | 0.8 |
| C | 2,088 ¹ | 9 | 14 | 6.7 | 156.1 | 156.1 | 156.1 | 0.0 |
| D | 2,313 ¹ | 12 | 26 | 3.6 | 159.4 | 159.4 | 159.8 | 0.4 |
| E | 2,848 ¹ | 22 | 36 | 2.2 | 162.8 | 162.8 | 163.0 | 0.2 |
| F | 3,080 ¹ | 78 | 473 | 0.2 | 167.8 | 167.8 | 168.7 | 0.9 |
| G | 3,864 ¹ | 59 | 249 | 0.3 | 167.8 | 167.8 | 168.7 | 0.9 |
| H | 4,280 ¹ | 10 | 41 | 1.9 | 167.8 | 167.8 | 168.7 | 0.9 |
| I | 4,800 ¹ | 36 | 88 | 0.9 | 168.4 | 168.4 | 169.2 | 0.8 |
| J | 5,149 ¹ | 15 | 15 | 5.2 | 170.5 | 170.5 | 170.5 | 0.0 |
| K | 5,295 ¹ | 11 | 23 | 3.4 | 172.2 | 172.2 | 172.2 | 0.0 |
| L | 5,488 ¹ | 26 | 26 | 1.2 | 173.0 | 173.0 | 173.0 | 0.0 |
| Salmon Brook | | | | | | | | |
| A | 158 ² | 120 | 928 | 1.2 | 159.3 | 159.3 | 160.3 | 1.0 |
| B | 211 ² | 195 | 1,420 | 0.8 | 159.7 | 159.7 | 160.6 | 0.9 |
| C | 1,056 ² | 60 | 508 | 2.2 | 159.8 | 159.8 | 160.6 | 0.8 |
| D | 1,848 ² | 605 | 3,378 | 0.3 | 159.9 | 159.9 | 160.9 | 1.0 |
| E | 2,376 ² | 200 | 1,202 | 0.9 | 159.9 | 159.9 | 160.9 | 1.0 |
| F | 4,224 ² | 85 | 668 | 1.7 | 160.1 | 160.1 | 161.1 | 1.0 |
| G | 5,602 ² | 320 | 2,162 | 0.5 | 160.3 | 160.3 | 161.3 | 1.0 |
| H | 7,603 ² | 115 | 913 | 1.2 | 160.4 | 160.4 | 161.4 | 1.0 |
| I | 9,768 ² | 550 | 3,664 | 0.3 | 160.5 | 160.5 | 161.5 | 1.0 |
| J | 10,876 ² | 160 | 1,202 | 0.9 | 160.5 | 160.5 | 161.5 | 1.0 |

¹ Feet above confluence with Hop Brook

² Feet above state boundary, state boundary is approximately 12,400 feet downstream of Main Street

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

RUN BROOK – SALMON BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Salmon Brook (continued) | | | | | | | | |
| K | 12,302 ¹ | 320 | 1,598 | 0.7 | 160.7 | 160.7 | 161.7 | 1.0 |
| L | 12,461 ¹ | 520 | 3,077 | 0.4 | 160.7 | 160.7 | 161.7 | 1.0 |
| M | 14,098 ¹ | 340 | 2,649 | 0.4 | 160.8 | 160.8 | 161.8 | 1.0 |
| N | 15,365 ¹ | 60 | 526 | 0.7 | 160.8 | 160.8 | 161.8 | 1.0 |
| O | 15,840 ¹ | 110 | 1,009 | 0.4 | 160.8 | 160.8 | 161.8 | 1.0 |
| P | 16,104 ¹ | 90 | 833 | 0.4 | 164.5 | 164.5 | 165.2 | 0.7 |
| Q | 16,632 ¹ | 30 | 382 | 1.0 | 164.5 | 164.5 | 165.2 | 0.7 |
| R | 18,374 ¹ | 505 | 5,134 | 0.1 | 164.5 | 164.5 | 165.2 | 0.7 |
| S | 20,170 ¹ | 70 | 870 | 0.4 | 164.5 | 164.5 | 165.2 | 0.7 |
| T | 20,698 ¹ | 130 | 1,630 | 0.2 | 164.5 | 164.5 | 165.2 | 0.7 |
| U | 21,331 ¹ | 50 | 590 | 0.6 | 164.5 | 164.5 | 165.2 | 0.7 |
| V | 22,018 ¹ | 150 | 1,391 | 0.3 | 167.6 | 167.6 | 167.6 | 0.0 |
| W | 23,390 ¹ | 490 | 4,761 | 0.1 | 167.6 | 167.6 | 167.6 | 0.0 |
| Sandy Brook | | | | | | | | |
| A | 1,948 ² | 100 | 290 | 3.1 | 124.9 | 123.1 ³ | 123.8 | 0.7 |
| B | 2,091 ² | 200 | 534 | 1.7 | 124.9 | 124.4 ³ | 124.9 | 0.5 |
| C | 2,497 ² | 100 | 288 | 4.0 | 124.9 | 124.7 ³ | 125.2 | 0.5 |
| D | 2,651 ² | 300 | 864 | 1.0 | 125.3 | 125.3 | 126.0 | 0.7 |
| E | 3,817 ² | 100 | 368 | 2.4 | 126.7 | 126.7 | 127.4 | 0.7 |
| F | 3,976 ² | 100 | 309 | 1.8 | 128.0 | 128.0 | 128.4 | 0.4 |
| G | 4,192 ² | 100 | 361 | 1.5 | 128.2 | 128.2 | 128.6 | 0.4 |
| H | 4,356 ² | 100 | 321 | 1.7 | 128.3 | 128.3 | 128.8 | 0.5 |
| I | 5,396 ² | 40 | 110 | 4.9 | 128.9 | 128.9 | 129.3 | 0.4 |
| J | 5,555 ² | 100 | 385 | 0.9 | 132.8 | 132.8 | 133.4 | 0.6 |
| K | 6,093 ² | 100 | 457 | 0.8 | 132.9 | 132.9 | 133.6 | 0.7 |
| L | 7,239 ² | 10 | 34 | 10.6 | 136.0 | 136.0 | 136.1 | 0.1 |

¹ Feet above state boundary, state boundary is approximately 12,400 feet downstream of Main Street

² Feet above confluence with Vine Brook

³ Elevation computed without consideration of backwater effects from Vine Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SALMON BROOK – SANDY BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|------------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Saugus River | | | | | | | | |
| A | 1,220 ¹ | 104 ³ | 468 | 0.9 | 54.5 | 54.5 | 55.5 | 1.0 |
| B | 1,960 ¹ | 74 ³ | 337 | 1.3 | 54.9 | 54.9 | 55.9 | 1.0 |
| C | 3,180 ¹ | 85 ³ | 325 | 0.7 | 55.6 | 55.6 | 56.6 | 1.0 |
| D | 4,240 ¹ | 45 ³ | 181 | 1.2 | 56.6 | 56.6 | 57.1 | 0.5 |
| E | 5,240 ¹ | 24 ³ | 76 | 2.8 | 57.6 | 57.6 | 58.6 | 1.0 |
| F | 6,090 ¹ | 52 ³ | 142 | 1.5 | 59.4 | 59.4 | 60.1 | 0.7 |
| G | 7,730 ¹ | 24 ³ | 69 | 3.1 | 62.0 | 62.0 | 62.3 | 0.3 |
| H | 7,990 ¹ | 23 ³ | 70 | 3.1 | 62.7 | 62.7 | 63.1 | 0.4 |
| I | 8,355 ¹ | 18 ³ | 66 | 3.2 | 64.9 | 64.9 | 65.7 | 0.8 |
| J | 8,835 ¹ | 19 ³ | 57 | 3.8 | 66.9 | 66.9 | 67.3 | 0.4 |
| Saunders Brook | | | | | | | | |
| A | 1,742 ² | 116 | 448 | 3.0 | 75.1 | 75.1 | 75.4 | 0.3 |
| B | 3,590 ² | 26 | 23 | 4.7 | 76.4 | 76.4 | 76.5 | 0.1 |
| C | 4,224 ² | 14 | 48 | 2.3 | 96.2 | 96.2 | 97.2 | 1.0 |

¹ Feet above county boundary, county boundary is approximately 1,020 feet downstream of Water Street

² Feet above confluence with Shawsheen River

³ This width extends beyond county boundary

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SAUGUS RIVER – SAUNDERS BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sawmill Brook 1 | | | | | | | | |
| A | 528 ¹ | 35 | 107 | 6.9 | 107.7 | 107.7 | 107.9 | 0.2 |
| B | 829 ¹ | 40 | 104 | 7.1 | 113.6 | 113.6 | 113.9 | 0.3 |
| C | 1,304 ¹ | 45 | 215 | 3.5 | 116.5 | 116.5 | 117.3 | 0.8 |
| D | 1,827 ¹ | 20 | 124 | 5.9 | 117.7 | 117.7 | 118.4 | 0.7 |
| E | 2,038 ¹ | 50 | 532 | 1.4 | 125.5 | 125.5 | 126.0 | 0.5 |
| F | 2,445 ¹ | 50 | 535 | 1.4 | 125.5 | 125.5 | 126.1 | 0.6 |
| G | 3,015 ¹ | 50 | 426 | 1.7 | 125.5 | 125.5 | 126.2 | 0.7 |
| H | 3,432 ¹ | 50 | 396 | 1.8 | 125.6 | 125.6 | 126.4 | 0.8 |
| Sawmill Brook 2 | | | | | | | | |
| A | 1,510 ² | 30 | 104 | 5.3 | 118.8 | 118.2 ⁴ | 118.7 | 0.5 |
| B | 1,799 ² | 50 | 674 | 0.8 | 130.9 | 130.9 | 131.4 | 0.5 |
| Schneider Brook | | | | | | | | |
| A | 180 ³ | 203 | 510 | 0.3 | 44.9 | 44.1 ⁵ | 44.2 | 0.1 |
| B | 1,180 ³ | 25 | 42 | 3.3 | 48.6 | 48.6 | 48.6 | 0.0 |
| C | 1,730 ³ | 27 | 43 | 3.1 | 53.9 | 53.9 | 53.9 | 0.0 |
| D | 2,020 ³ | 25 | 45 | 1.7 | 57.8 | 57.8 | 57.9 | 0.1 |
| E | 2,900 ³ | 11 | 12 | 6.2 | 65.7 | 65.7 | 65.7 | 0.0 |
| F | 2,990 ³ | 5* | 10 | 7.7 | 68.5 | 68.5 | 68.5 | 0.0 |
| G | 3,040 ³ | 5* | 16 | 4.9 | 70.7 | 70.7 | 70.8 | 0.1 |
| H | 3,640 ³ | 34 | 40 | 1.6 | 80.1 | 80.1 | 80.1 | 0.0 |
| I | 3,990 ³ | 69* | 207 | 0.3 | 82.2 | 82.2 | 82.2 | 0.0 |
| J | 4,410 ³ | 33* | 88 | 0.9 | 82.3 | 82.3 | 82.4 | 0.1 |

¹ Feet above downstream side of Noah Clapp Dam

² Feet above confluence with Concord River

³ Feet above confluence with Aberjona River

* The 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

⁴ Elevation computed without consideration of backwater effects from Concord River

⁵ Elevation computed without consideration of backwater effects from Aberjona River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**SAWMILL BROOK 1 – SAWMILL BROOK 2 –
SCHNEIDER BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|---------------------|------------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Shakers Glen Brook | | | | | | | | |
| A | 30 ¹ | 354 [*] | 827 | 0.2 | 46.7 | 46.7 | 46.7 | 0.0 |
| B | 740 ¹ | 26 | 84 | 2.1 | 46.8 | 46.8 | 46.9 | 0.1 |
| C | 1,190 ¹ | 28 | 64 | 2.8 | 47.7 | 47.7 | 47.7 | 0.0 |
| D | 2,800 ¹ | 21 | 33 | 4.7 | 54.6 | 54.6 | 54.6 | 0.0 |
| E | 3,170 ¹ | 73 | 356 | 0.4 | 62.3 | 62.3 | 62.3 | 0.0 |
| F | 3,300 ¹ | 116 | 270 | 0.8 | 62.7 | 62.7 | 62.7 | 0.0 |
| Shawsheen River | | | | | | | | |
| A | 1,056 ² | 85 ³ | 620 | 3.7 | 73.3 | 73.3 | 73.9 | 0.6 |
| B | 1,373 ² | 45 ³ | 400 | 5.7 | 74.2 | 74.2 | 74.4 | 0.2 |
| C | 7,392 ² | 400 | 3,283 | 0.7 | 75.1 | 75.1 | 76.0 | 0.9 |
| D | 10,930 ² | 800 | 4,243 | 0.5 | 75.3 | 75.3 | 76.3 | 1.0 |
| E | 13,675 ² | 675 | 2,536 | 0.8 | 75.4 | 75.4 | 76.3 | 0.9 |
| F | 13,781 ² | 675 | 3,186 | 0.7 | 76.3 | 76.3 | 77.0 | 0.7 |
| G | 14,890 ² | 49 | 243 | 8.9 | 76.7 | 76.7 | 77.4 | 0.7 |
| H | 14,995 ² | 49 | 449 | 4.8 | 81.3 | 81.3 | 81.3 | 0.0 |
| I | 17,477 ² | 250 | 1,384 | 1.3 | 84.2 | 84.2 | 84.8 | 0.6 |
| J | 17,582 ² | 100 | 835 | 2.2 | 84.6 | 84.6 | 84.9 | 0.3 |
| K | 20,909 ² | 257 | 2,429 | 0.7 | 85.1 | 85.1 | 85.8 | 0.7 |
| L | 23,390 ² | 488 | 2,987 | 0.6 | 85.4 | 85.4 | 86.2 | 0.8 |
| M | 25,344 ² | 650 | 5,038 | 0.3 | 86.1 | 86.1 | 86.8 | 0.7 |
| N | 27,667 ² | 425 | 3,436 | 0.5 | 86.2 | 86.2 | 87.0 | 0.8 |
| O | 29,568 ² | 310 | 2,376 | 0.7 | 86.3 | 86.3 | 87.1 | 0.8 |
| P | 30,994 ² | 276 | 1,956 | 0.8 | 86.3 | 86.3 | 87.2 | 0.9 |
| Q | 32,419 ² | 194 | 1,287 | 1.3 | 87.0 | 87.0 | 88.0 | 1.0 |
| R | 33,898 ² | 295 | 1,598 | 1.0 | 87.5 | 87.5 | 88.4 | 0.9 |

¹ Feet above confluence with Fowle Brook

³ This width extends beyond county boundary

² Feet above county boundary, county boundary is approximately 1,250 feet downstream of Interstate 93

^{*} The 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 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SHAKERS GLEN BROOK - SHAWSHEEN RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Shawsheen River (continued) | | | | | | | | |
| S | 33,950 | 220 | 858 | 2.6 | 87.5 | 87.5 | 88.4 | 0.9 |
| T | 34,765 | 250 | 1,835 | 1.2 | 88.1 | 88.1 | 89.0 | 0.9 |
| U | 35,315 | 29 | 277 | 8.0 | 88.3 | 88.3 | 89.2 | 0.9 |
| V | 35,830 | 160 | 1,685 | 1.3 | 91.5 | 91.5 | 91.8 | 0.3 |
| W | 36,150 | 48 | 595 | 3.7 | 91.5 | 91.5 | 91.9 | 0.4 |
| X | 36,220 | 39 | 337 | 6.5 | 91.5 | 91.5 | 91.9 | 0.4 |
| Y | 36,270 | 40 | 233 | 9.4 | 91.5 | 91.5 | 91.9 | 0.4 |
| Z | 36,630 | 160 | 2,346 | 0.9 | 96.5 | 96.5 | 96.7 | 0.2 |
| AA | 38,380 | 200 | 2,764 | 0.8 | 96.5 | 96.5 | 96.8 | 0.3 |
| AB | 40,830 | 250 | 2,981 | 0.7 | 96.6 | 96.6 | 97.0 | 0.4 |
| AC | 44,690 | 250 | 2,946 | 0.7 | 96.8 | 96.8 | 97.4 | 0.6 |
| AD | 46,440 | 190 | 1,878 | 1.2 | 96.9 | 96.9 | 97.7 | 0.8 |
| AE | 49,290 | 220 | 1,930 | 0.8 | 97.1 | 97.1 | 98.0 | 0.9 |
| AF | 51,290 | 160 | 2,346 | 0.9 | 97.3 | 97.3 | 98.2 | 0.9 |
| AG | 51,410 | 200 | 2,764 | 0.8 | 97.3 | 97.3 | 98.2 | 0.9 |
| AH | 52,210 | 250 | 2,981 | 0.7 | 98.2 | 98.2 | 98.5 | 0.3 |
| AI | 57,150 | 300 | 2,491 | 0.7 | 98.3 | 98.3 | 99.3 | 1.0 |
| AJ | 59,579 | 300 | 3,019 | 0.6 | 98.4 | 98.4 | 99.4 | 1.0 |
| AK | 59,774 | 500 | 3,692 | 0.5 | 99.1 | 99.1 | 99.9 | 0.9 |
| AL | 65,228 | 90 | 575 | 3.1 | 99.1 | 99.1 | 99.9 | 0.8 |
| AM | 65,376 | 45 | 435 | 4.1 | 99.6 | 99.6 | 100.1 | 0.5 |
| AN | 65,535 | 84 | 623 | 2.9 | 99.9 | 99.9 | 100.4 | 0.5 |
| AO | 66,432 | 150 | 1,392 | 1.2 | 100.0 | 100.0 | 100.7 | 0.7 |
| AP | 68,085 | 190 | 1,575 | 1.1 | 100.0 | 100.0 | 100.8 | 0.8 |
| AQ | 70,361 | 42 | 200 | 8.5 | 105.5 | 105.5 | 105.6 | 0.1 |
| AR | 70,598 | 42 | 221 | 7.7 | 107.1 | 107.1 | 107.1 | 0.0 |
| AS | 71,649 | 80 | 556 | 3.1 | 108.6 | 108.6 | 109.1 | 0.5 |

¹ Feet above county boundary, county boundary is approximately 1,250 feet downstream of Interstate 93

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SHAWSHEEN RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Shawsheen River (continued) | | | | | | | | |
| AT | 72,430 | 75 | 365 | 4.4 | 108.6 | 108.6 | 109.5 | 0.9 |
| AU | 72,784 | 85 | 534 | 3.0 | 109.6 | 109.6 | 109.8 | 0.2 |
| AV | 74,373 | 128 | 743 | 2.1 | 110.3 | 110.3 | 110.6 | 0.3 |
| AW | 75,229 | 144 | 478 | 2.7 | 110.6 | 110.6 | 111.0 | 0.4 |
| AX | 75,519 | 70 | 395 | 3.2 | 110.6 | 110.6 | 111.0 | 0.4 |
| AY | 75,883 | 58 | 371 | 3.4 | 112.0 | 112.0 | 112.1 | 0.1 |
| AZ | 76,438 | 75 | 412 | 3.1 | 112.0 | 112.0 | 112.1 | 0.1 |
| BA | 77,071 | 150 | 729 | 1.7 | 112.3 | 112.3 | 112.6 | 0.3 |
| BB | 77,251 | 96 | 534 | 2.4 | 113.0 | 113.0 | 113.2 | 0.2 |
| BC | 78,133 | 165 | 785 | 1.6 | 113.2 | 113.2 | 113.6 | 0.4 |
| BD | 79,669 | 165 | 970 | 1.3 | 113.5 | 113.5 | 114.4 | 0.9 |
| BE | 79,902 | 82 | 497 | 2.6 | 114.4 | 114.4 | 115.0 | 0.6 |
| BF | 80,403 | 75 | 482 | 2.6 | 115.0 | 115.0 | 115.6 | 0.6 |
| BG | 80,503 | 30 | 245 | 5.2 | 115.0 | 115.0 | 115.9 | 0.9 |
| BH | 81,137 | 125 | 879 | 1.4 | 116.0 | 116.0 | 116.8 | 0.8 |
| BI | 81,992 | 150 | 1,167 | 0.5 | 116.1 | 116.1 | 117.0 | 0.9 |
| BJ | 82,193 | 32 | 241 | 2.2 | 116.2 | 116.2 | 117.1 | 0.9 |
| BK | 84,221 | 37 | 306 | 1.7 | 117.2 | 117.2 | 118.1 | 0.9 |
| BL | 84,432 | 50 | 376 | 1.4 | 117.4 | 117.4 | 118.2 | 0.8 |
| BM | 85,419 | 25 | 236 | 2.2 | 117.8 | 117.8 | 118.7 | 0.9 |

¹ Feet above county boundary, county boundary is approximately 1,250 feet downstream of Interstate 93

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SHAWSHEEN RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|--------------------|------------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Skug River | | | | | | | | |
| A-B* | | | | | | | | |
| C | 1,223 ¹ | 287 ³ | 1,885 | 1.0 | 80.0 | 80.0 | 81.0 | 1.0 |
| D | 3,658 ¹ | 881 | 3,847 | 0.6 | 80.2 | 80.2 | 81.2 | 1.0 |
| E | 5,520 ¹ | 181 | 766 | 2.3 | 80.6 | 80.6 | 81.4 | 0.8 |
| F | 5,726 ¹ | 193 | 1,142 | 1.0 | 82.2 | 82.2 | 82.3 | 0.1 |
| G | 6,701 ¹ | 161 | 896 | 1.3 | 82.4 | 82.4 | 82.6 | 0.2 |
| H | 8,921 ¹ | 332 | 1,882 | 1.4 | 82.8 | 82.8 | 83.2 | 0.4 |
| I | 9,854 ¹ | 283 | 1,264 | 1.6 | 82.9 | 82.9 | 83.3 | 0.4 |
| Snake Brook | | | | | | | | |
| A | 650 ² | 24 | 50 | 4.2 | 138.1 | 133.5 ⁴ | 133.5 | 0.0 |
| B | 4,250 ² | 100 | 537 | 0.4 | 146.9 | 146.9 | 146.9 | 0.0 |
| C | 5,837 ² | 125 | 529 | 0.4 | 147.0 | 147.0 | 147.1 | 0.1 |
| D | 7,272 ² | 10 | 34 | 6.1 | 152.5 | 152.5 | 153.5 | 1.0 |
| E | 9,578 ² | 65 | 222 | 0.9 | 165.6 | 165.6 | 165.6 | 0.0 |

¹ Feet above confluence with Martins Pond

* No data available

² Feet above Commonwealth Avenue

³ Width extends beyond county boundary

⁴ Elevation computed without consideration of backwater effects from Lake Cochituate

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SKUG RIVER – SNAKE BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| South Meadow Brook/ Paul Brook | | | | | | | | |
| A | 1,922 ¹ | 50 | 502 | 2.5 | 108.5 | 108.5 | 109.4 | 0.9 |
| B | 2,865 ¹ | 50 | 535 | 2.4 | 111.6 | 111.6 | 112.4 | 0.8 |
| C | 4,148 ¹ | 80 | 524 | 2.4 | 112.0 | 112.0 | 112.9 | 0.9 |
| D | 4,691 ¹ | 40 | 458 | 2.8 | 112.4 | 112.4 | 113.4 | 1.0 |
| E | 6,060 ¹ | 50 | 389 | 2.6 | 113.6 | 113.6 | 113.8 | 0.2 |
| F | 6,942 ¹ | 40 | 295 | 2.1 | 113.9 | 113.9 | 114.2 | 0.3 |
| G | 7,892 ¹ | 60 | 329 | 1.9 | 114.0 | 114.0 | 114.7 | 0.7 |
| H | 8,655 ¹ | 40 | 235 | 2.6 | 114.8 | 114.8 | 115.0 | 0.2 |
| I | 9,560 ¹ | 40 | 144 | 4.3 | 115.8 | 115.8 | 115.9 | 0.1 |
| J | 10,310 ¹ | 40 | 189 | 3.3 | 119.1 | 119.1 | 119.1 | 0.0 |
| Spencer Brook 1 | | | | | | | | |
| A | 1,360 ² | 22 | 48 | 8.5 | 119.7 | 116.4 ⁴ | 116.4 | 0.0 |
| B | 2,120 ² | 30 | 53 | 7.7 | 122.3 | 122.3 | 122.3 | 0.0 |
| C | 2,340 ² | 25 | 74 | 5.5 | 124.8 | 124.8 | 125.2 | 0.4 |
| Spencer Brook 2 | | | | | | | | |
| A | 0 ³ | 100 | 176 | 1.0 | 147.6 | 147.6 | 148.6 | 1.0 |
| B | 1,040 ³ | 44 | 116 | 1.5 | 150.1 | 150.1 | 150.1 | 0.0 |
| C | 1,575 ³ | 75 | 481 | 0.4 | 158.2 | 158.2 | 158.2 | 0.0 |
| D | 2,495 ³ | 74 | 143 | 1.2 | 158.2 | 158.2 | 158.2 | 0.0 |
| E | 3,635 ³ | 12 | 59 | 2.9 | 162.1 | 162.1 | 162.1 | 0.0 |
| F | 4,550 ³ | 6 | 17 | 9.8 | 164.4 | 164.4 | 164.9 | 0.5 |
| G | 5,010 ³ | 6 | 17 | 9.8 | 167.3 | 167.3 | 167.6 | 0.3 |

¹ Feet above confluence with Charles River

² Feet above confluence with Assabet River

³ Feet above limit of detailed study, limit of detailed study is approximately 1,475 feet downstream of Concord Street

⁴ Elevation computed without consideration of backwater effects from Assabet River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**SOUTH MEADOW BROOK/PAUL BROOK –
SPENCER BROOK 1 – SPENCER BROOK 2**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Spring Brook | | | | | | | | |
| A | 612 | * | 42 | 3.1 | 108.7 | 105.5 ² | 105.8 | 0.3 |
| B | 945 | * | 24 | 5.4 | 108.7 | 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 |

¹ Feet above confluence with Shawsheen River

² Elevation computed without consideration of backwater effects from Shawsheen River

* Floodway coincident with channel banks

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SPRING BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Squannacook River | | | | | | | | |
| 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 |
| 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 |

¹ Feet above confluence with Nashua River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SQUANNACOOK RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Stony Brook 1 | | | | | | | | |
| 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 |
| 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 |

¹ Feet above confluence with Charles River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

STONY BROOK 1

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Stony Brook 1 (continued) | | | | | | | | |
| AA | 19,325 ¹ | 121 | 720 | 1.6 | 113.0 | 113.0 | 114.0 | 1.0 |
| AB | 20,064 ¹ | 56 | 204 | 5.5 | 117.0 | 117.0 | 117.7 | 0.7 |
| AC | 20,803 ¹ | 68 | 393 | 2.9 | 119.8 | 119.8 | 120.8 | 1.0 |
| AD | 21,067 ¹ | 200 | 1,440 | 0.8 | 123.0 | 123.0 | 123.1 | 0.1 |
| AE | 21,648 ¹ | 218 | 1,380 | 0.8 | 123.1 | 123.1 | 123.2 | 0.1 |
| AF | 22,598 ¹ | 220 | 868 | 1.3 | 123.2 | 123.2 | 123.4 | 0.2 |
| AG | 23,179 ¹ | 58 | 300 | 3.8 | 123.4 | 123.4 | 124.1 | 0.7 |
| AH | 23,390 ¹ | 220 | 862 | 1.3 | 123.5 | 123.5 | 124.5 | 1.0 |
| AI | 23,602 ¹ | 50 | 331 | 2.6 | 127.3 | 127.3 | 127.4 | 0.1 |
| AJ | 24,024 ¹ | 110 | 340 | 2.5 | 128.4 | 128.4 | 129.2 | 0.8 |
| AK | 24,499 ¹ | 90 | 235 | 3.6 | 132.8 | 132.8 | 133.6 | 0.8 |
| AL | 24,816 ¹ | 132 | 290 | 2.9 | 136.5 | 136.5 | 136.5 | 0.0 |
| AM | 24,974 ¹ | 110 | 982 | 0.9 | 146.7 | 146.7 | 147.0 | 0.3 |
| AN | 25,238 ¹ | 20 | 222 | 3.8 | 146.7 | 146.7 | 147.1 | 0.4 |
| AO | 805 ² | 25 | 78 | 2.1 | 169.6 | 169.6 | 170.6 | 1.0 |
| AP | 1,065 ² | 20 | 46 | 3.6 | 175.6 | 175.6 | 175.6 | 0.0 |
| AQ | 1,970 ² | 20 | 18 | 5.4 | 180.3 | 180.3 | 180.3 | 0.0 |
| AR | 2,715 ² | 39 | 36 | 2.7 | 191.0 | 191.0 | 191.0 | 0.0 |
| AS | 3,035 ² | 21 | 45 | 2.1 | 201.9 | 201.9 | 202.2 | 0.3 |
| AT | 3,665 ² | 12 | 36 | 2.6 | 206.5 | 206.5 | 206.7 | 0.2 |
| AU | 3,865 ² | 18 | 41 | 2.3 | 207.0 | 207.0 | 207.2 | 0.2 |
| AV | 4,650 ² | 24 | 37 | 2.5 | 212.7 | 212.7 | 212.7 | 0.0 |
| AW | 4,815 ² | 26 | 87 | 1.1 | 215.8 | 215.8 | 215.8 | 0.0 |
| AX | 5,445 ² | 14 | 45 | 2.1 | 216.5 | 216.5 | 216.5 | 0.0 |
| AY | 5,785 ² | 16 | 30 | 2.6 | 217.1 | 217.1 | 217.1 | 0.0 |
| AZ | 6,205 ² | 23 | 57 | 1.4 | 217.7 | 217.7 | 217.7 | 0.0 |

¹ Feet above confluence with Charles River

² Feet above limit of detailed study, limit of detailed study is approximately 960 feet downstream of Tower Road

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

STONY BROOK 1

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Stony Brook 1 (continued) | | | | | | | | |
| BA | 6,835 ¹ | 20 | 48 | 1.7 | 218.6 | 218.6 | 219.3 | 0.7 |
| BB | 7,695 ¹ | 10 | 27 | 2.9 | 227.8 | 227.8 | 228.8 | 1.0 |
| BC | 7,895 ¹ | 6 | 14 | 5.6 | 229.4 | 229.4 | 230.0 | 0.6 |
| BD | 8,275 ¹ | 18 | 15 | 5.2 | 235.7 | 235.7 | 235.7 | 0.0 |
| Stony Brook 2 | | | | | | | | |
| A-F* | | | | | | | | |
| G | 1,779 ² | 86 | 1,060 | 1.4 | 103.2 | 103.2 | 103.2 | 0.0 |
| H | 2,554 ² | 115 | 1,170 | 1.9 | 103.2 | 103.2 | 103.3 | 0.1 |
| I | 3,754 ² | 260 | 1,934 | 1.2 | 103.4 | 103.4 | 103.4 | 0.0 |
| J | 3,784 ² | 261 | 1,552 | 0.9 | 103.4 | 103.4 | 103.4 | 0.0 |
| K | 4,284 ² | 128 | 735 | 2.0 | 103.4 | 103.4 | 103.6 | 0.2 |
| L | 5,434 ² | 85 | 216 | 6.9 | 103.6 | 103.6 | 103.9 | 0.3 |
| M | 6,137 ² | 55 | 524 | 2.8 | 104.5 | 104.5 | 105.3 | 0.8 |
| N | 6,237 ² | 51 | 520 | 2.7 | 104.5 | 104.5 | 105.3 | 0.8 |
| O | 6,512 ² | 51 | 467 | 3.2 | 104.6 | 104.6 | 105.4 | 0.8 |
| P | 6,662 ² | 76 | 632 | 2.4 | 104.8 | 104.8 | 105.5 | 0.7 |
| Q | 7,112 ² | 74 | 415 | 4.0 | 105.1 | 105.1 | 105.8 | 0.7 |
| R | 8,562 ² | 34 | 270 | 5.5 | 107.8 | 107.8 | 108.7 | 0.9 |
| S | 8,662 ² | 29 | 246 | 6.1 | 108.0 | 108.0 | 109.0 | 1.0 |
| T | 1,372 ³ | ** | 297 | 4.4 | 143.2 | 143.2 | 143.5 | 0.3 |
| U | 1,423 ³ | 661 | 2,405 | 0.5 | 143.7 | 143.7 | 143.9 | 0.2 |
| V | 2,698 ³ | 87 | 284 | 4.6 | 143.7 | 143.7 | 143.9 | 0.2 |
| W | 2,797 ³ | ** | 206 | 6.4 | 145.3 | 145.3 | 145.3 | 0.0 |
| X | 2,850 ³ | ** | 150 | 8.8 | 153.6 | 153.6 | 153.6 | 0.0 |
| Y | 5,147 ³ | 260 | 1,362 | 1.0 | 155.2 | 155.2 | 155.3 | 0.1 |
| Z | 6,827 ³ | 110 | 738 | 1.8 | 159.5 | 159.5 | 160.1 | 0.6 |

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

* No data available

² Feet above confluence with Merrimack River

** Floodway coincident with channel banks

³ Feet above limit of detailed study, limit of detailed study is approximately 2,750 feet downstream of Brookside Road

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

STONY BROOK 1 – STONY BROOK 2

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Stony Brook 2 (continued) | | | | | | | | |
| 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 |
| 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 |

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

* Floodway coincident with channel banks

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

STONY BROOK 2

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Strong Water Brook | | | | | | | | |
| A | 158 ¹ | 299 | 1,259 | 0.5 | 83.6 | 83.6 | 84.2 | 0.6 |
| B | 3,268 ¹ | 40 | 364 | 1.6 | 87.2 | 87.2 | 87.2 | 0.0 |
| C | 4,340 ¹ | 20 | 186 | 3.2 | 87.2 | 87.2 | 87.8 | 0.6 |
| D | 5,201 ¹ | 45 | 362 | 1.6 | 87.2 | 87.2 | 88.2 | 1.0 |
| E | 5,998 ¹ | 160 | 887 | 0.7 | 87.3 | 87.3 | 88.3 | 1.0 |
| F | 6,980 ¹ | 40 | 275 | 2.2 | 87.5 | 87.5 | 88.5 | 1.0 |
| G | 7,931 ¹ | 30 | 367 | 1.6 | 94.7 | 94.7 | 94.7 | 0.0 |
| H | 8,216 ¹ | 40 | 463 | 1.3 | 94.7 | 94.7 | 94.7 | 0.0 |
| I | 9,087 ¹ | 30 | 279 | 2.1 | 94.7 | 94.7 | 94.9 | 0.2 |
| J | 9,842 ¹ | 30 | 235 | 2.5 | 94.8 | 94.8 | 95.2 | 0.4 |
| K | 10,497 ¹ | 35 | 283 | 2.1 | 94.8 | 94.8 | 95.6 | 0.8 |
| Sudbury River | | | | | | | | |
| A | 820 ² | 230 | 2,930 | 1.1 | 119.7 | 119.7 | 120.6 | 0.9 |
| B | 880 ² | 230 | 2,930 | 1.1 | 119.7 | 119.7 | 120.6 | 0.9 |
| C | 1,880 ² | 800 | 8,540 | 0.4 | 119.7 | 119.7 | 120.7 | 1.0 |
| D | 2,555 ² | 320 | 1,490 | 2.2 | 119.7 | 119.7 | 120.7 | 1.0 |
| E | 2,875 ² | 300 | 5,100 | 0.7 | 120.0 | 120.0 | 120.9 | 0.9 |
| F | 4,270 ² | 500 | 3,720 | 0.9 | 120.0 | 120.0 | 120.9 | 0.9 |
| G | 4,670 ² | 60 | 940 | 3.5 | 120.0 | 120.0 | 120.9 | 0.9 |
| H | 4,885 ² | 150 | 2,430 | 1.4 | 120.3 | 120.3 | 121.3 | 1.0 |
| I | 5,200 ² | 65 | 980 | 3.4 | 120.3 | 120.3 | 121.3 | 1.0 |
| J | 5,270 ² | 90 | 1,080 | 3.1 | 120.5 | 120.5 | 121.5 | 1.0 |
| K | 5,425 ² | 150 | 2,640 | 1.3 | 120.5 | 120.5 | 121.5 | 1.0 |
| L | 6,935 ² | 680 | 8,420 | 0.4 | 120.6 | 120.6 | 121.5 | 0.9 |
| M | 7,895 ² | 360 | 5,690 | 0.6 | 120.6 | 120.6 | 121.5 | 0.9 |
| N | 8,375 ² | 80 | 1,260 | 2.7 | 120.6 | 120.6 | 121.6 | 1.0 |

¹ Feet above confluence with Shawsheen River

² Feet above confluence with Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

STRONG WATER BROOK – SUDBURY RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sudbury River (continued) | | | | | | | | |
| O | 8,545 | 160 | 2,960 | 1.1 | 120.7 | 120.7 | 121.7 | 1.0 |
| P | 11,090 | 1,000 | 10,200 | 0.3 | 120.8 | 120.8 | 121.7 | 0.9 |
| Q | 12,580 | 190 | 2,920 | 1.1 | 120.8 | 120.8 | 121.7 | 0.9 |
| R | 13,050 | 100 | 1,640 | 2.0 | 120.8 | 120.8 | 121.7 | 0.9 |
| S | 13,250 | 180 | 3,250 | 1.0 | 120.8 | 120.8 | 121.8 | 1.0 |
| T | 16,660 | 700 | 9,380 | 0.4 | 120.9 | 120.9 | 121.8 | 0.9 |
| U | 18,995 | 860 | 10,810 | 0.3 | 120.9 | 120.9 | 121.8 | 0.9 |
| V | 20,665 | 1,700 | 26,660 | 0.1 | 120.9 | 120.9 | 121.8 | 0.9 |
| W | 22,015 | 1,200 | 13,650 | 0.2 | 120.9 | 120.9 | 121.8 | 0.9 |
| X | 24,075 | 460 | 5,180 | 0.6 | 120.9 | 120.9 | 121.8 | 0.9 |
| Y | 25,075 | 100 | 1,630 | 2.1 | 120.9 | 120.9 | 121.8 | 0.9 |
| Z | 25,275 | 50 | 930 | 3.6 | 120.9 | 120.9 | 121.9 | 1.0 |
| AA | 25,355 | 100 | 1,985 | 1.7 | 121.1 | 121.1 | 122.1 | 1.0 |
| AB | 26,855 | 500 | 7,050 | 0.5 | 121.2 | 121.2 | 122.2 | 1.0 |
| AC | 27,509 | 500 | 6,976 | 0.6 | 121.2 | 121.2 | 122.2 | 1.0 |
| AD | 30,043 | 1,300 | 15,403 | 0.3 | 121.2 | 121.2 | 122.2 | 1.0 |
| AE | 32,472 | 350 | 4,783 | 0.9 | 121.3 | 121.3 | 122.3 | 1.0 |
| AF | 33,422 | 830 | 9,250 | 0.5 | 121.3 | 121.3 | 122.3 | 1.0 |
| AG | 36,485 | 1,550 | 16,171 | 0.3 | 121.3 | 121.3 | 122.3 | 1.0 |
| AH | 39,125 | 885 | 9,464 | 0.5 | 121.5 | 121.5 | 122.4 | 0.9 |
| AI | 39,970 | 930 | 10,477 | 0.4 | 121.6 | 121.6 | 122.5 | 0.9 |
| AJ | 43,085 | 1,900 | 20,935 | 0.2 | 121.6 | 121.6 | 122.5 | 0.9 |
| AK | 47,256 | 2,950 | 29,427 | 0.2 | 121.6 | 121.6 | 122.5 | 0.9 |
| AL | 51,110 | 1,900 | 19,590 | 0.2 | 121.6 | 121.6 | 122.5 | 0.9 |
| AM | 53,909 | 2,000 | 18,696 | 0.3 | 121.7 | 121.7 | 122.6 | 0.9 |
| AN | 56,285 | 1,450 | 11,481 | 0.4 | 121.8 | 121.8 | 122.7 | 0.9 |
| AO | 60,086 | 650 | 8,393 | 0.6 | 122.0 | 122.0 | 122.8 | 0.8 |

¹ Feet above confluence with Concord River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUDBURY RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sudbury River (continued) | | | | | | | | |
| AP | 61,882 | 680 | 8,803 | 0.6 | 122.1 | 122.1 | 122.9 | 0.8 |
| AQ | 64,786 | 315 | 3,972 | 1.3 | 122.2 | 122.2 | 123.0 | 0.8 |
| AR | 65,630 | 465 | 6,256 | 0.8 | 122.3 | 122.3 | 123.1 | 0.8 |
| AS | 67,426 | 940 | 11,502 | 0.5 | 122.3 | 122.3 | 123.1 | 0.8 |
| AT | 71,438 | 2,070 | 20,901 | 0.3 | 122.4 | 122.4 | 123.2 | 0.8 |
| AU | 76,138 | 490 | 4,655 | 1.1 | 122.6 | 122.6 | 123.4 | 0.8 |
| AV | 78,566 | 200 | 2,454 | 2.2 | 122.9 | 122.9 | 123.7 | 0.8 |
| AW | 81,629 | 250 | 2,049 | 2.7 | 124.9 | 124.9 | 125.8 | 0.9 |
| AX | 83,635 | 180 | 1,960 | 2.9 | 125.9 | 125.9 | 126.8 | 0.9 |
| AY | 85,114 | 201 | 1,802 | 2.7 | 127.3 | 127.3 | 128.0 | 0.7 |
| AZ | 87,226 | 146 | 1,482 | 3.2 | 129.2 | 129.2 | 129.9 | 0.7 |
| BA | 89,174 | 219 | 2,258 | 2.1 | 148.1 | 148.1 | 149.0 | 0.9 |
| BB | 93,034 | 278 | 2,480 | 1.9 | 148.8 | 148.8 | 149.5 | 0.7 |
| BC | 94,618 | 668 | 6,292 | 0.8 | 149.3 | 149.3 | 149.9 | 0.6 |
| BD | 96,888 | 149 | 1,108 | 4.3 | 151.2 | 151.2 | 151.5 | 0.3 |
| BE | 100,426 | 180 | 1,132 | 4.2 | 153.7 | 153.7 | 154.2 | 0.5 |
| BF | 102,907 | 297 | 2,854 | 1.7 | 158.2 | 158.2 | 158.2 | 0.0 |
| BG | 105,653 | 325 | 3,670 | 1.3 | 160.5 | 160.5 | 160.7 | 0.2 |
| BH | 107,976 | 400 | 3,821 | 1.3 | 160.8 | 160.8 | 161.2 | 0.4 |
| BI | 110,563 | 450 | 6,036 | 0.8 | 163.7 | 163.7 | 164.0 | 0.3 |
| BJ | 117,797 | 178 | ** | ** | 173.2 | 173.2 | 174.2 | 1.0 |
| BK | 121,651 | 310 | ** | ** | 173.2 | 173.2 | 174.2 | 1.0 |
| BL | 125,030 | * | ** | ** | 174.0 | 174.0 | 175.0 | 1.0 |
| BM | 127,037 | * | ** | ** | 179.3 | 179.3 | 180.3 | 1.0 |
| BN | 127,670 | 178 | 2,359 | 2.1 | 180.5 | 180.5 | 181.5 | 1.0 |
| BO | 129,307 | 140 | 1,033 | 4.3 | 181.0 | 181.0 | 182.0 | 1.0 |
| BP | 132,475 | 187 | 1,977 | 2.3 | 186.3 | 186.3 | 187.3 | 1.0 |

¹ Feet above confluence with Concord River

* Floodway coincident with channel banks

** Floodway data not shown due to pool effects from Reservoir No. 2 Dam

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

SUDBURY RIVER

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------------|-----------------------|------------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sudbury River (continued) | | | | | | | | |
| BQ | 134,640 | 300 | 3,251 | 1.4 | 192.5 | 192.5 | 193.5 | 1.0 |
| BR | 137,016 | * | ** | ** | 197.0 | 197.0 | 198.0 | 1.0 |
| BS | 138,230 | 146 | 1,715 | 2.5 | 201.1 | 201.1 | 202.1 | 1.0 |
| BT | 140,131 | 130 | 1,284 | 2.9 | 201.9 | 201.9 | 202.9 | 1.0 |
| BU | 142,982 | 188 | 1,836 | 1.6 | 209.1 | 209.1 | 210.1 | 1.0 |
| BV | 145,306 | 157 | 2,017 | 1.5 | 212.9 | 212.9 | 213.9 | 1.0 |
| BW | 145,992 | 284 ² | 2,739 | 1.2 | 227.0 | 227.0 | 228.0 | 1.0 |
| BX | 148,790 | 68 ² | 527 | 5.8 | 233.3 | 233.3 | 234.3 | 1.0 |
| BY | 152,064 | 52 ² | 892 | 2.3 | 242.1 | 242.1 | 243.1 | 1.0 |
| BZ | 153,542 | 41 ² | 492 | 3.9 | 255.1 | 255.1 | 256.1 | 1.0 |
| CA | 155,074 | 151 ² | 958 | 1.8 | 256.6 | 256.6 | 257.6 | 1.0 |
| CB | 156,974 | 26 ² | 100 | 9.4 | 260.4 | 260.4 | 261.4 | 1.0 |
| CC | 160,090 | 77 ² | 424 | 2.2 | 263.7 | 263.7 | 264.7 | 1.0 |
| CD | 161,779 | 121 ² | 692 | 1.2 | 274.4 | 274.4 | 275.4 | 1.0 |
| CE | 164,477 | 35 | 1,233 | 0.7 | 274.8 | 274.8 | 275.8 | 1.0 |

¹ Feet above confluence with Concord River

² This width extends beyond county boundary

* Floodway coincident with channel banks

** Floodway data not shown due to pool effects from Weir Dam

| | | |
|----------------|---|----------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | | SUDBURY RIVER |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|------------------|--------------------|------------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Sutton Brook | | | | | | | | |
| A | 845 ¹ | 85 | 876 | 0.3 | 76.4 | 76.4 | 76.7 | 0.3 |
| B | 3,538 ¹ | 27 | 45 | 6.7 | 77.9 | 77.9 | 77.9 | 0.0 |
| C | 3,643 ¹ | 62 | 177 | 1.7 | 79.8 | 79.8 | 79.8 | 0.0 |
| D | 5,702 ¹ | 66 | 376 | 0.6 | 80.4 | 80.4 | 81.1 | 0.7 |
| E | 6,917 ¹ | 75 | 250 | 1.0 | 81.0 | 81.0 | 81.6 | 0.6 |
| Sweetwater Brook | | | | | | | | |
| A | 100 ² | 31 [*] | 98 | 3.3 | 35.7 | 35.7 | 35.7 | 0.0 |
| B | 320 ² | 53 | 208 | 3.0 | 37.0 | 37.0 | 37.0 | 0.0 |
| C | 440 ² | 93 | 365 | 2.2 | 38.4 | 38.4 | 38.4 | 0.0 |
| D | 530 ² | 41 | 225 | 2.4 | 38.5 | 38.5 | 38.5 | 0.0 |
| E | 620 ² | 21 | 73 | 7.5 | 38.5 | 38.5 | 38.5 | 0.0 |
| F | 770 ² | 32 | 108 | 5.0 | 39.7 | 39.7 | 39.8 | 0.1 |
| G | 1,430 ² | 32 | 251 | 2.0 | 46.7 | 46.7 | 46.7 | 0.0 |
| H | 2,140 ² | 84 | 312 | 2.2 | 47.7 | 47.7 | 47.8 | 0.1 |
| I | 2,730 ² | 23 | 93 | 5.2 | 49.1 | 49.1 | 49.2 | 0.1 |
| J | 2,860 ² | 23 | 115 | 4.2 | 50.4 | 50.4 | 50.4 | 0.0 |
| K | 3,130 ² | 113 [*] | 279 | 1.8 | 53.4 | 53.4 | 53.4 | 0.0 |
| L | 3,370 ² | 280 | 563 | 0.9 | 53.6 | 53.6 | 53.6 | 0.0 |
| M | 3,940 ² | 30 | 82 | 5.7 | 56.8 | 56.8 | 56.8 | 0.0 |

¹ Feet above confluence with Shawsheen River

² Feet above confluence with Aberjona River

* The 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 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | SUTTON BROOK – SWEETWATER BROOK |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---------------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tadmuck Brook | | | | | | | | |
| A | 525 ¹ | 30 | 73 | 3.4 | 159.6 | 155.5 ³ | 155.7 | 0.2 |
| B | 586 ¹ | 30 | 107 | 2.3 | 159.6 | 156.6 ³ | 156.9 | 0.3 |
| C | 1,786 ¹ | 17 | 135 | 1.8 | 163.4 | 163.4 | 163.9 | 0.5 |
| D | 1,836 ¹ | 40 | 261 | 1.0 | 163.4 | 163.4 | 164.0 | 0.6 |
| E | 2,936 ¹ | 26 | 35 | 7.1 | 174.5 | 174.5 | 174.5 | 0.0 |
| F | 4,236 ¹ | 40 | 128 | 2.0 | 193.1 | 193.1 | 193.8 | 0.7 |
| G | 4,285 ¹ | 40 | 167 | 1.5 | 193.1 | 193.1 | 193.8 | 0.7 |
| H | 5,126 ¹ | 30 | 104 | 1.8 | 198.7 | 198.7 | 198.9 | 0.2 |
| I | 5,176 ¹ | 30 | 177 | 1.1 | 198.7 | 198.7 | 198.9 | 0.2 |
| J | 7,106 ¹ | 30 | 92 | 2.1 | 198.7 | 198.7 | 199.1 | 0.4 |
| K | 7,626 ¹ | * | 13 | 8.4 | 204.2 | 204.2 | 204.2 | 0.0 |
| L | 8,146 ¹ | * | 26 | 4.2 | 208.9 | 208.9 | 208.9 | 0.0 |
| M | 8,266 ¹ | * | 19 | 5.9 | 212.3 | 212.3 | 212.7 | 0.4 |
| N | 8,316 ¹ | 30 | 88 | 1.2 | 213.6 | 213.6 | 213.6 | 0.0 |
| O | 8,676 ¹ | * | 21 | 5.3 | 216.8 | 216.8 | 216.8 | 0.0 |
| P | 9,170 ¹ | * | 29 | 3.8 | 218.8 | 218.8 | 218.9 | 0.1 |
| Q | 9,226 ¹ | 30 | 53 | 2.1 | 219.0 | 219.0 | 219.1 | 0.1 |
| R | 10,086 ¹ | 30 | 140 | 0.8 | 227.3 | 227.3 | 227.5 | 0.2 |
| S | 10,116 ¹ | 30 | 118 | 0.9 | 227.3 | 227.3 | 227.5 | 0.2 |
| Tadmuck Swamp Brook | | | | | | | | |
| A | 0 ² | 150 | 229 | 1.0 | 196.4 | 196.4 | 196.6 | 0.2 |
| B | 800 ² | 5 | 22 | 10.6 | 197.0 | 197.0 | 197.0 | 0.0 |
| C | 850 ² | 150 | 684 | 0.3 | 199.0 | 199.0 | 199.0 | 0.0 |
| D | 3,040 ² | 14 | 60 | 3.8 | 199.1 | 199.1 | 199.2 | 0.1 |
| E | 3,090 ² | 100 | 262 | 0.9 | 199.4 | 199.4 | 199.5 | 0.1 |
| F | 4,420 ² | 78 | 90 | 2.0 | 199.4 | 199.4 | 199.5 | 0.1 |

¹ Feet above confluence with Stony Brook 2

² Feet above limit of detailed study, limit of detailed study is approximately 780 feet downstream of Littleton Road

³ Elevation computed without consideration of backwater effects from Stony Brook 2

* Floodway coincident with channel banks

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

TADMUCK BROOK – TADMUCK SWAMP BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|------------------------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Taylor Brook | | | | | | | | |
| A | 16 ¹ | 140 | 188 | 0.8 | 178.7 | 174.6 ⁴ | 175.2 | 0.6 |
| B | 143 ¹ | 58 | 90 | 1.7 | 178.7 | 174.7 ⁴ | 175.3 | 0.6 |
| C | 259 ¹ | 62 | 104 | 1.5 | 178.7 | 175.2 ⁴ | 175.5 | 0.3 |
| D | 359 ¹ | 126 | 170 | 0.9 | 178.7 | 175.5 ⁴ | 175.6 | 0.1 |
| E | 1,151 ¹ | 50 | 145 | 1.1 | 178.7 | 176.0 ⁴ | 176.1 | 0.1 |
| Tributary 1 to Cole's Brook | | | | | | | | |
| A | 80 ² | 260 | 690 | 0.2 | 149.8 | 145.8 ⁵ | 146.7 | 1.0 |
| B | 230 ² | 30 | 100 | 1.0 | 149.8 | 145.8 ⁵ | 146.7 | 1.0 |
| C | 355 ² | 30 | 80 | 1.1 | 149.8 | 145.9 ⁵ | 146.7 | 0.9 |
| D | 440 ² | 50 | 260 | 0.4 | 149.8 | 148.7 ⁵ | 149.6 | 1.0 |
| E | 1,905 ² | 80 | 30 | 2.9 | 149.8 | 149.6 ⁵ | 149.6 | 0.1 |
| Tributary 1 to Sudbury River | | | | | | | | |
| A | 623 ³ | 15 | 36 | 4.0 | 120.5 | 118.0 ⁶ | 118.9 | 1.0 |
| B | 1,253 ³ | 8 | 29 | 5.0 | 124.1 | 124.1 | 124.6 | 0.5 |

¹ Feet above confluence with Assabet River

² Feet above confluence with Cole's Brook

³ Feet above confluence with Sudbury River

⁴ Elevation computed without consideration of backwater effects from Assabet River

⁵ Elevation computed without consideration of backwater effects from Cole's Brook

⁶ Elevation computed without consideration of backwater effects from Sudbury River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**TAYLOR BROOK – TRIBUTARY 1 TO COLE'S BROOK –
TRIBUTARY 1 TO SUDBURY RIVER**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tributary 2 to Assabet River | | | | | | | | |
| A | 770 ¹ | 77 | 473 | 0.2 | 122.6 | 122.6 | 123.0 | 0.4 |
| B | 1,270 ¹ | 30 | 24 | 4.2 | 125.9 | 125.9 | 126.2 | 0.3 |
| C | 1,420 ¹ | 120 | 1,066 | 0.1 | 126.2 | 126.2 | 126.7 | 0.5 |
| D | 2,720 ¹ | 10 | 31 | 3.2 | 128.6 | 128.6 | 128.7 | 0.1 |
| Tributary 2 to Tributary 1 to Cole's Brook | | | | | | | | |
| A | 500 ² | 90 | 110 | 1.8 | 149.8 | 147.1 ⁴ | 147.6 | 0.5 |
| B | 875 ² | 20 | 30 | 7.7 | 151.7 | 151.7 | 151.7 | 0.0 |
| C | 1,000 ² | 40 | 160 | 1.2 | 154.0 | 154.0 | 154.6 | 0.6 |
| D | 1,815 ² | 10 | 20 | 8.7 | 159.9 | 159.9 | 160.1 | 0.2 |
| E | 2,715 ² | 20 | 40 | 4.9 | 185.1 | 185.1 | 185.2 | 0.1 |
| Tributary 3 to Bogle Brook 2 | | | | | | | | |
| A | 53 ³ | 32 | 156 | 1.5 | 178.7 | 178.7 | 178.7 | 0.0 |
| B | 845 ³ | 22 | 111 | 2.2 | 178.8 | 178.8 | 179.0 | 0.2 |
| C | 1,109 ³ | 23 | 51 | 4.7 | 179.9 | 179.9 | 180.4 | 0.5 |
| D | 1,639 ³ | 25 | 55 | 4.4 | 183.4 | 183.4 | 184.2 | 0.8 |
| E | 2,429 ³ | 67 | 178 | 1.3 | 184.5 | 184.5 | 186.1 | 0.6 |

¹ Feet above confluence with Assabet River

² Feet above confluence with Tributary 1 to Cole's Brook

³ Feet above confluence with Bogle Brook 2

⁴ Elevation computed without consideration of backwater effects from Cole's Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**TRIBUTARY 2 TO ASSABET RIVER – TRIBUTARY 2 TO TRIBUTARY 1 TO
COLE'S BROOK – TRIBUTARY 3 TO BOGLE BROOK 2**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|----------------------------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tributary 4 to Bogle Brook 2 | | | | | | | | |
| A | 106 ¹ | 25 | 39 | 4.4 | 157.9 | 157.9 | 157.9 | 0.0 |
| B | 475 ¹ | 12 | 23 | 7.4 | 161.6 | 161.6 | 161.6 | 0.0 |
| C | 634 ¹ | 10 | 26 | 6.5 | 163.3 | 163.3 | 163.8 | 0.5 |
| D | 1,109 ¹ | 23 | 46 | 3.7 | 168.7 | 168.7 | 169.7 | 1.0 |
| E | 1,531 ¹ | 30 | 43 | 4.0 | 172.3 | 172.3 | 172.5 | 0.2 |
| F | 1,901 ¹ | 28 | 57 | 3.0 | 173.6 | 173.6 | 173.7 | 0.1 |
| G | 2,165 ¹ | 16 | 32 | 5.3 | 174.8 | 174.8 | 175.0 | 0.2 |
| H | 2,904 ¹ | 75 | 67 | 2.5 | 179.6 | 179.6 | 179.7 | 0.1 |
| I | 3,590 ¹ | 35 | 38 | 4.5 | 184.8 | 184.8 | 184.8 | 0.0 |
| Tributary A to Course Brook | | | | | | | | |
| A | 106 ² | 9 | 21 | 8.6 | 150.6 | 146.0 ⁴ | 146.0 | 0.0 |
| B | 475 ² | 42 | 119 | 1.5 | 150.6 | 147.3 ⁴ | 148.3 | 1.0 |
| C | 1,056 ² | 33 | 95 | 1.9 | 150.6 | 148.3 ⁴ | 149.3 | 1.0 |
| D | 1,373 ² | 21 | 65 | 2.8 | 150.6 | 149.1 ⁴ | 150.0 | 0.9 |
| E | 1,742 ² | 27 | 78 | 2.3 | 150.6 | 150.5 ⁴ | 151.4 | 0.9 |
| Tributary A to Squannacook River | | | | | | | | |
| A | 3,690 ³ | 30 | 122 | 1.9 | 293.5 | 293.4 ⁵ | 293.5 | 0.1 |
| B | 4,770 ³ | 30 | 107 | 2.1 | 293.7 | 293.7 | 294.2 | 0.5 |
| Tributary B to Squannacook River | | | | | | | | |
| A | 900 ³ | 8 | 9 | 5.9 | 295.6 | 295.6 | 295.6 | 0.0 |
| B | 1,590 ³ | 10 | 17 | 3.0 | 301.5 | 301.5 | 301.6 | 0.1 |

¹ Feet above confluence with Bogle Brook 2

² Feet above confluence with Course Brook

³ Feet above confluence with Squannacook River

⁴ Elevation computed without consideration of backwater effects from Course Brook

⁵ Elevation computed without consideration of backwater effects from Squannacook River

| | | |
|----------------|---|----------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | |
| | TRIBUTARY 4 TO BOGLE BROOK 2 – TRIBUTARY A TO COURSE BROOK - TRIBUTARY A TO SQUANNACOOK RIVER – TRIBUTARY B TO SQUANNACOOK RIVER | |

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tributary B to Vine Brook | | | | | | | | |
| A | 1,288 ¹ | 200 | 580 | 1.3 | 124.8 | 122.5 ³ | 123.2 | 0.7 |
| B | 3,849 ¹ | 20 | 58 | 1.6 | 140.0 | 140.0 | 140.0 | 0.0 |
| C | 4,715 ¹ | 40 | 233 | 0.4 | 145.6 | 145.6 | 145.7 | 0.1 |
| Tributary C to Vine Brook | | | | | | | | |
| A | 935 ¹ | 100 | 246 | 1.5 | 137.6 | 134.0 ³ | 134.8 | 0.8 |
| B | 1,357 ¹ | 20 | 55 | 6.5 | 139.7 | 139.7 | 139.9 | 0.2 |
| C | 1,848 ¹ | 50 | 255 | 1.4 | 144.6 | 144.6 | 144.9 | 0.3 |
| D | 2,503 ¹ | 50 | 231 | 1.6 | 144.8 | 144.8 | 145.5 | 0.7 |
| E | 2,825 ¹ | 40 | 94 | 4.9 | 147.3 | 147.3 | 147.5 | 0.2 |
| F | 3,041 ¹ | 60 | 318 | 1.5 | 155.3 | 155.3 | 155.9 | 0.6 |
| G | 3,775 ¹ | 60 | 312 | 1.5 | 155.7 | 155.7 | 156.4 | 0.7 |
| H | 4,092 ¹ | 40 | 169 | 2.7 | 155.8 | 155.8 | 156.7 | 0.9 |
| Tributary to Beaver Brook 3 | | | | | | | | |
| A | 150 ² | 80 | 489 | 0.4 | 90.1 | 90.1 | 91.1 | 1.0 |
| B | 2,260 ² | 40 | 185 | 0.9 | 102.7 | 102.7 | 103.5 | 0.8 |
| C | 3,260 ² | 20 | 67 | 2.6 | 104.9 | 104.9 | 105.3 | 0.4 |

¹ Feet above confluence with Vine Brook

² Feet above confluence with Beaver Brook 3

³ Elevation computed without consideration of backwater effects from Vine Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**TRIBUTARY B TO VINE BROOK – TRIBUTARY C TO VINE BROOK -
TRIBUTARY TO BEAVER BROOK 3**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------------|--------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tributary to Cold Spring Brook | | | | | | | | |
| A | 1,595 ¹ | 103 | 392 | 0.3 | 180.5 | 178.1 ⁴ | 179.1 | 1.0 |
| B | 1,980 ¹ | 88 | 307 | 0.4 | 180.5 | 178.1 ⁴ | 179.1 | 1.0 |
| C | 2,920 ¹ | 16 | 20 | 6.3 | 198.7 | 198.7 | 198.7 | 0.0 |
| D | 3,500 ¹ | 16 | 28 | 4.5 | 211.3 | 211.3 | 211.7 | 0.4 |
| E | 3,795 ¹ | 16 | 19 | 6.5 | 224.2 | 224.2 | 224.3 | 0.1 |
| F | 4,060 ¹ | 17 | 32 | 3.9 | 228.7 | 228.7 | 229.4 | 0.7 |
| G | 4,770 ¹ | 22 | 54 | 2.3 | 232.4 | 232.4 | 233.2 | 0.8 |
| Tributary to Indian Brook | | | | | | | | |
| A | 1,500 ² | 20 | 61 | 2.1 | 301.9 | 301.6 ⁵ | 302.0 | 0.4 |
| B | 2,280 ² | 8 | 40 | 3.2 | 305.9 | 305.9 | 306.5 | 0.6 |
| Tributary to Martins Brook | | | | | | | | |
| A | 1,320 ³ | 357 | 1,786 | 0.1 | 78.6 | 73.8 ⁶ | 74.8 | 1.0 |
| B | 2,387 ³ | 108 | 358 | 0.4 | 78.6 | 73.8 ⁶ | 74.8 | 1.0 |
| C | 3,913 ³ | 78 | 306 | 0.4 | 80.6 | 80.6 | 81.2 | 0.6 |
| D | 4,410 ³ | 60 | 278 | 0.5 | 80.6 | 80.6 | 81.3 | 0.7 |

¹ Feet above confluence with Cold Spring Brook

² Feet above confluence with Indian Brook

³ Feet above confluence with Martins Brook

⁴ Elevation computed without consideration of backwater effects from Sudbury River

⁵ Elevation computed without consideration of backwater effects from Indian Brook

⁶ Elevation computed without consideration of backwater effects from Martins Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**TRIBUTARY TO COLD SPRING BROOK – TRIBUTARY TO INDIAN BROOK –
TRIBUTARY TO MARTINS BROOK**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tributary to Mill Brook | | | | | | | | |
| A | 0 | 139 | 297 | 0.4 | 119.4 | 119.4 | 120.4 | 1.0 |
| B | 729 | 66 | 156 | 0.7 | 120.0 | 120.0 | 121.0 | 1.0 |
| C | 1,199 | 88 | 207 | 0.5 | 120.5 | 120.5 | 121.5 | 1.0 |
| D | 1,346 | 10 | 38 | 2.8 | 121.1 | 121.1 | 122.1 | 1.0 |
| E | 1,874 | 110 | 298 | 0.4 | 121.5 | 121.5 | 122.5 | 1.0 |
| F | 2,344 | 101 | 188 | 0.6 | 121.9 | 121.9 | 122.9 | 1.0 |
| G | 2,645 | 34 | 108 | 1.0 | 122.3 | 122.3 | 123.3 | 1.0 |
| H | 3,643 | 141 | 333 | 0.2 | 122.5 | 122.5 | 123.5 | 1.0 |
| I | 4,921 | 22 | 38 | 1.3 | 125.5 | 125.5 | 126.5 | 1.0 |
| J | 5,290 | 4 | 11 | 4.5 | 132.9 | 132.9 | 133.4 | 0.5 |
| K | 5,692 | 4 | 10 | 5.0 | 148.0 | 148.0 | 148.3 | 0.3 |
| L | 5,797 | 4 | 13 | 3.8 | 151.8 | 151.8 | 151.9 | 0.1 |
| M | 5,882 | 3 | 8 | 6.3 | 152.2 | 152.2 | 152.5 | 0.3 |
| N | 6,130 | 4 | 29 | 1.7 | 156.0 | 156.0 | 156.4 | 0.4 |
| O | 6,579 | 11 | 61 | 0.8 | 156.0 | 156.0 | 157.0 | 1.0 |
| P | 6,991 | 154 | 444 | 0.4 | 156.0 | 156.0 | 157.0 | 1.0 |

¹ Feet above confluence with Mill Brook

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

TRIBUTARY TO MILL BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|---|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Tributary to Nonacoicus Brook 1/Long Pond Brook | | | | | | | | |
| A | 220 ¹ | 150 | 1,398 | 0.1 | 227.1 | 227.1 | 228.0 | 0.9 |
| B | 1,230 ¹ | 160 | 878 | 0.2 | 227.5 | 227.5 | 228.1 | 0.6 |
| C | 2,420 ¹ | 340 | 1,976 | 0.1 | 228.3 | 228.3 | 228.9 | 0.6 |
| D | 3,770 ¹ | 245 | 1,445 | 0.1 | 228.3 | 228.3 | 228.9 | 0.6 |
| E | 5,210 ¹ | 165 | 805 | 0.2 | 228.3 | 228.3 | 228.9 | 0.6 |
| F | 7,070 ¹ | 930 | 6,459 | 0.0 | 228.3 | 228.3 | 228.9 | 0.6 |
| G | 8,900 ¹ | 1,820 | 16,104 | 0.0 | 228.5 | 228.5 | 229.1 | 0.6 |
| H | 9,650 ¹ | 230 | 1,423 | 0.0 | 228.5 | 228.5 | 229.1 | 0.6 |
| I | 10,000 ¹ | 145 | 716 | 0.1 | 228.5 | 228.5 | 229.1 | 0.6 |
| J | 10,600 ¹ | 148 | 486 | 0.1 | 228.5 | 228.5 | 229.1 | 0.6 |
| K | 11,250 ¹ | 600 | 780 | 0.1 | 228.5 | 228.5 | 229.1 | 0.6 |
| Tributary to Waushakum Pond | | | | | | | | |
| A | 940 ² | 110 | 311 | 0.5 | 159.4 | 159.4 | 160.3 | 0.9 |
| B | 2,590 ² | 35 | 85 | 1.6 | 163.0 | 163.0 | 163.7 | 0.7 |

¹ Feet above confluence with Nonacoicus Brook 1

² Feet above limit of detailed study, limit of detailed study is approximately 1,155 feet downstream of Greenwood Street

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

**TRIBUTARY TO NONACOICUS BROOK 1/ LONG POND BROOK –
TRIBUTARY TO WAUSHAKUM POND**

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Trout Brook 1 | | | | | | | | |
| A | 2,200 ¹ | 26 | 39 | 4.6 | 101.9 | 101.9 | 102.2 | 0.3 |
| B | 3,140 ¹ | 32 | 191 | 0.9 | 120.4 | 120.4 | 120.7 | 0.3 |
| C | 5,300 ¹ | 67 | 72 | 2.5 | 128.8 | 128.8 | 128.8 | 0.0 |
| D | 5,850 ¹ | 25 | 97 | 1.9 | 133.0 | 133.0 | 133.1 | 0.1 |
| E | 8,930 ¹ | 20 | 80 | 2.2 | 142.8 | 142.8 | 143.1 | 0.3 |
| Trout Brook 2 | | | | | | | | |
| A | 1,200 ² | 6 | 8 | 6.7 | 239.5 | 239.5 | 239.6 | 0.1 |
| B | 3,100 ² | 5 | 10 | 5.5 | 268.8 | 268.8 | 269.4 | 0.6 |
| C | 3,360 ² | 9 | 6 | 3.5 | 270.5 | 270.5 | 270.8 | 0.3 |
| Trull Brook | | | | | | | | |
| A | 544 ³ | 20 | 84 | 4.2 | 56.8 | 47.9 ⁴ | 47.9 | 0.0 |
| B | 1,056 ³ | 20 | 57 | 6.2 | 56.8 | 49.2 ⁴ | 49.5 | 0.3 |
| C | 2,138 ³ | 20 | 56 | 6.3 | 69.4 | 69.4 | 69.7 | 0.3 |
| D | 2,640 ³ | 25 | 165 | 2.2 | 79.2 | 79.2 | 79.2 | 0.0 |
| E | 3,437 ³ | 20 | 90 | 4.0 | 81.1 | 81.1 | 81.3 | 0.2 |
| F | 4,071 ³ | 15 | 80 | 3.5 | 93.8 | 93.8 | 93.8 | 0.0 |
| G | 4,541 ³ | 20 | 102 | 2.8 | 93.9 | 93.9 | 94.3 | 0.4 |
| H | 5,834 ³ | 30 | 88 | 3.2 | 101.1 | 101.1 | 101.1 | 0.0 |
| I | 7,075 ³ | 30 | 136 | 2.1 | 103.8 | 103.8 | 104.1 | 0.3 |
| J | 9,462 ³ | 60 | 268 | 1.1 | 103.8 | 103.8 | 104.7 | 0.9 |
| K | 11,088 ³ | 105 | 354 | 0.6 | 103.9 | 103.9 | 104.9 | 1.0 |
| L | 12,038 ³ | 100 | 250 | 0.8 | 104.1 | 104.1 | 105.1 | 1.0 |

¹ Feet above confluence with Richardson Brook

² Feet above confluence with Nashua River

³ Feet above confluence with Merrimack River

⁴ Elevation computed without consideration of backwater effects from Merrimack River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

TROUT BROOK 1 – TROUT BROOK 2 – TRULL BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------------|--------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Trull Brook Tributary | | | | | | | | |
| A | 1,680 ¹ | 40 | 95 | 1.5 | 103.9 | 103.9 | 104.9 | 1.0 |
| B | 2,380 ¹ | 30 | 150 | 0.9 | 110.1 | 110.1 | 110.9 | 0.8 |
| C | 2,740 ¹ | 40 | 157 | 0.9 | 110.1 | 110.1 | 110.9 | 0.8 |
| D | 3,060 ¹ | 40 | 139 | 1.0 | 110.1 | 110.1 | 111.0 | 0.9 |
| E | 6,320 ¹ | 80 | 435 | 0.2 | 125.5 | 125.5 | 126.4 | 0.9 |
| F | 7,400 ¹ | 93 | 524 | 0.1 | 125.5 | 125.5 | 126.4 | 0.9 |
| G | 7,550 ¹ | 46 | 137 | 0.5 | 126.7 | 126.7 | 127.6 | 0.9 |
| H | 8,470 ¹ | 140 | 859 | 0.1 | 129.0 | 129.0 | 129.0 | 0.0 |
| Unkety Brook | | | | | | | | |
| A | 520 ² | 71 | 131 | 1.4 | 214.9 | 214.9 | 215.6 | 0.7 |
| B | 3,710 ² | 115 | 367 | 0.5 | 221.5 | 221.5 | 222.3 | 0.8 |
| C | 5,695 ² | 58 | 79 | 2.4 | 223.5 | 223.5 | 224.1 | 0.6 |
| Varnum Brook | | | | | | | | |
| A | 472 ³ | 6 | 15 | 9.1 | 190.4 | 190.4 | 190.7 | 0.3 |
| B | 950 ³ | 9 | 29 | 4.7 | 201.8 | 201.8 | 202.7 | 0.9 |
| C | 1,287 ³ | 17 | 50 | 2.7 | 207.7 | 207.7 | 208.4 | 0.7 |
| D | 1,840 ³ | 30 | 60 | 2.2 | 215.5 | 215.5 | 216.5 | 1.0 |
| E | 2,920 ³ | 20 | 40 | 3.2 | 226.3 | 226.3 | 227.1 | 0.8 |
| F | 3,412 ³ | 5 | 20 | 3.1 | 231.8 | 231.8 | 232.3 | 0.5 |
| G | 3,905 ³ | 19 | 46 | 1.3 | 232.9 | 232.9 | 233.7 | 0.8 |
| H | 4,478 ³ | 49 | 413 | 0.1 | 240.5 | 240.5 | 241.2 | 0.7 |

¹ Feet above confluence with Trull Brook

² Feet above limit of detailed study, limit of detailed study is approximately 2,735 feet downstream of Radian Road

³ Feet above confluence with Nashua River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

TRULL BROOK TRIBUTARY – UNKETY BROOK – VARNUM BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|-------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Vine Brook | | | | | | | | |
| A | 1,055 | 100 | 409 | 2.0 | 99.9 | 97.8 ² | 98.6 | 0.8 |
| B | 1,790 | 30 | 110 | 7.5 | 99.9 | 99.3 ² | 99.7 | 0.4 |
| C | 2,235 | 50 | 267 | 3.1 | 101.5 | 101.5 | 102.1 | 0.6 |
| D | 2,655 | 33 | 140 | 5.9 | 101.7 | 101.7 | 102.7 | 1.0 |
| E | 2,855 | 20 | 81 | 10.2 | 106.4 | 106.4 | 106.8 | 0.4 |
| F | 3,120 | 50 | 620 | 1.3 | 121.6 | 121.6 | 121.6 | 0.0 |
| G | 3,855 | 40 | 340 | 2.4 | 121.6 | 121.6 | 121.6 | 0.0 |
| H | 4,425 | 40 | 321 | 2.5 | 122.2 | 122.2 | 122.2 | 0.0 |
| I | 5,100 | 40 | 294 | 2.7 | 122.7 | 122.7 | 122.9 | 0.2 |
| J | 5,400 | 60 | 444 | 1.8 | 122.9 | 122.9 | 123.3 | 0.4 |
| K | 6,572 | 200 | 1,380 | 1.1 | 123.0 | 123.0 | 123.9 | 0.9 |
| L | 7,786 | 100 | 580 | 1.4 | 123.1 | 123.1 | 124.0 | 0.9 |
| M | 9,808 | 100 | 639 | 1.3 | 123.6 | 123.6 | 124.6 | 1.0 |
| N | 12,095 | 500 | 3,314 | 0.3 | 124.8 | 124.8 | 125.8 | 1.0 |
| O | 17,491 | 150 | 531 | 1.9 | 124.8 | 124.8 | 125.8 | 1.0 |
| P | 18,578 | 30 | 319 | 3.2 | 132.4 | 132.4 | 133.0 | 0.6 |
| Q | 19,059 | 22 | 225 | 4.5 | 132.4 | 132.4 | 133.1 | 0.7 |
| R | 19,751 | 30 | 221 | 4.5 | 133.4 | 133.4 | 134.1 | 0.7 |
| S | 21,366 | 30 | 230 | 2.2 | 135.1 | 135.1 | 135.7 | 0.6 |
| T | 23,246 | 30 | 214 | 2.3 | 135.8 | 135.8 | 136.3 | 0.5 |
| U | 24,265 | 90 | 490 | 1.0 | 137.6 | 137.6 | 138.2 | 0.6 |
| V | 26,414 | 200 | 537 | 0.9 | 154.3 | 154.3 | 155.2 | 0.9 |
| W | 26,863 | 40 | 176 | 2.8 | 159.8 | 159.8 | 160.3 | 0.5 |
| X | 29,890 | 128 | 1,540 | 0.3 | 179.4 | 179.4 | 180.4 | 1.0 |
| Y | 30,471 | 186 | 1,871 | 0.3 | 179.4 | 179.4 | 180.4 | 1.0 |
| Z | 30,682 | 193 | 1,591 | 0.3 | 179.4 | 179.4 | 180.4 | 1.0 |

¹ Feet above confluence with Shawsheen River

² Elevation computed without consideration of backwater effects from Shawsheen River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

VINE BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|------------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Vine Brook (continued) | | | | | | | | |
| AA | 30,999 | 114 | 778 | 0.6 | 179.4 | 179.4 | 180.4 | 1.0 |
| AB | 31,316 | 92 | 754 | 0.6 | 181.8 | 181.8 | 182.8 | 1.0 |
| AC | 31,897 | 40 | 344 | 1.3 | 181.9 | 181.9 | 182.9 | 1.0 |
| AD | 32,124 | 62 | 529 | 0.8 | 182.5 | 182.5 | 183.5 | 1.0 |
| AE | 33,022 | 64 | 506 | 0.9 | 182.5 | 182.5 | 183.5 | 1.0 |
| AF | 33,233 | 222 | 1,252 | 0.3 | 182.5 | 182.5 | 183.5 | 1.0 |
| AG | 34,711 | 32 | 273 | 1.4 | 182.6 | 182.6 | 183.6 | 1.0 |
| AH | 34,922 | 44 | 312 | 1.2 | 182.6 | 182.6 | 183.6 | 1.0 |
| AI | 35,133 | 146 | 679 | 0.6 | 182.7 | 182.7 | 183.7 | 1.0 |
| AJ | 35,466 | 30 | 278 | 1.4 | 182.7 | 182.7 | 183.7 | 1.0 |
| AK | 35,677 | 556 | 1,236 | 0.3 | 183.5 | 183.5 | 184.5 | 1.0 |
| AL | 36,575 | 21 | 162 | 2.2 | 183.6 | 183.6 | 184.6 | 1.0 |
| AM | 36,628 | 50 | 345 | 1.0 | 183.7 | 183.7 | 184.7 | 1.0 |

¹ Feet above confluence with Shawsheen River

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

VINE BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|---------------------|--------------|----------------------------|---------------------------------|--|--------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Walker Brook 1 | | | | | | | | |
| A | 2,030 ¹ | 40 | 155 | 0.6 | 218.0 | 218.0 | 218.0 | 0.0 |
| B | 3,670 ¹ | 10 | 22 | 4.5 | 223.8 | 223.8 | 224.2 | 0.4 |
| C | 6,045 ¹ | 12 | 28 | 3.6 | 239.2 | 239.2 | 240.2 | 1.0 |
| Walker Brook 2 | | | | | | | | |
| A | 2,050 ² | 500 | 3,484 | 1.0 | 309.1 | 309.1 | 309.8 | 0.7 |
| B | 4,800 ² | 1,150 | 8,152 | 0.2 | 309.2 | 309.2 | 309.9 | 0.7 |
| C | 6,400 ² | 1,205 | 7,426 | 0.2 | 309.2 | 309.2 | 309.9 | 0.7 |
| D | 9,850 ² | 20 | 69 | 9.2 | 319.5 | 319.5 | 319.8 | 0.3 |
| E | 11,440 ² | 40 | 214 | 2.9 | 356.6 | 356.6 | 356.6 | 0.0 |
| F | 12,600 ² | 15 | 57 | 11.1 | 385.2 | 385.2 | 385.6 | 0.4 |
| G | 14,000 ² | 50 | 189 | 3.3 | 406.5 | 406.5 | 406.9 | 0.4 |
| H | 15,900 ² | 45 | 116 | 5.4 | 416.6 | 416.6 | 416.7 | 0.1 |
| Walker Brook 3 | | | | | | | | |
| A | 600 ³ | 37 | 64 | 3.0 | 256.7 | 245.4 ⁴ | 246.3 | 0.9 |
| B | 1,550 ³ | 10 | 27 | 7.1 | 259.0 | 259.0 | 259.5 | 0.5 |
| C | 2,460 ³ | 75 | 434 | 0.4 | 284.3 | 284.3 | 284.3 | 0.0 |
| D | 3,640 ³ | 7 | 31 | 6.1 | 299.9 | 299.9 | 300.1 | 0.2 |
| E | 3,950 ³ | 78 | 225 | 0.8 | 307.0 | 307.0 | 307.9 | 0.9 |
| F | 4,500 ³ | 8 | 21 | 9.2 | 314.6 | 314.6 | 315.0 | 0.4 |

¹ Feet above confluence with Nashua River

² Feet above confluence with Squannacook River

³ Feet above confluence with Sudbury River Reservoir

⁴ Elevation computed without consideration of backwater effects from Sudbury River Reservoir

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

WALKER BROOK 1 – WALKER BROOK 2 – WALKER BROOK 3

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Walkers Brook | | | | | | | | |
| A | 660 | 20 | 66 | 4.2 | 79.7 | 79.7 | 80.2 | 0.5 |
| B | 681 | 10 | 39 | 7.2 | 79.8 | 79.8 | 80.2 | 0.4 |
| C | 1,399 | 16 | 109 | 2.6 | 83.4 | 83.4 | 83.5 | 0.1 |
| D | 1,663 | 14 | 100 | 2.8 | 83.5 | 83.5 | 83.7 | 0.2 |
| E | 1,927 | 14 | 104 | 2.7 | 83.7 | 83.7 | 83.9 | 0.2 |
| F | 2,777 | 12 | 92 | 3.0 | 83.8 | 83.8 | 84.4 | 0.6 |
| G | 2,820 | 34 | 240 | 1.0 | 83.8 | 83.8 | 84.6 | 0.8 |
| H | 3,369 | 36 | 243 | 0.8 | 83.8 | 83.8 | 84.6 | 0.8 |
| I | 3,865 | 39 | 238 | 0.8 | 83.8 | 83.8 | 84.6 | 0.8 |
| J | 4,704 | 38 | 228 | 0.9 | 83.9 | 83.9 | 84.6 | 0.7 |
| K | 4,757 | 28 | 158 | 1.1 | 83.9 | 83.9 | 84.6 | 0.7 |
| L | 5,264 | 28 | 153 | 1.2 | 83.9 | 83.9 | 84.7 | 0.8 |
| M | 5,607 | 28 | 161 | 1.1 | 84.3 | 84.3 | 85.1 | 0.8 |
| N | 6,753 | 10 | 67 | 2.7 | 85.6 | 85.6 | 85.7 | 0.1 |
| O | 6,933 | 12 | 86 | 2.1 | 85.6 | 85.6 | 85.8 | 0.2 |
| P | 7,851 | 10 | 61 | 3.0 | 85.7 | 85.7 | 86.3 | 0.6 |

¹ Feet above limit of detailed study, limit of detailed study is approximately 565 feet downstream of State Route 129 Eastbound

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

WALKERS BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Wellington Brook | | | | | | | | |
| A | 590 | 31 | 77 | 1.9 | 6.8 | 5.2 ² | 5.4 | 0.2 |
| B | 1,450 | 27* | 64 | 2.6 | 6.9 | 6.5 ² | 6.5 | 0.0 |
| C | 3,770 | 23* | 90 | 1.1 | 7.7 | 7.7 | 7.7 | 0.0 |
| D | 5,730 | 10* | 17 | 6.3 | 15.1 | 15.1 | 15.1 | 0.0 |
| E | 6,190 | 32 | 39 | 2.6 | 17.9 | 17.9 | 18.0 | 0.1 |
| F | 6,460 | 16 | 24 | 4.1 | 20.2 | 20.2 | 20.3 | 0.1 |

¹ Feet above confluence with Alewife Brook (Little River)

² Elevation computed without consideration of backwater effects from Alewife Brook (Little River)

* The 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 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

WELLINGTON BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| West Chester Brook | | | | | | | | |
| A | 74 | 34 | 265 | 0.8 | 44.1 | 44.1 | 44.1 | 0.0 |
| B | 174 | 31 | 184 | 1.1 | 44.1 | 44.1 | 44.1 | 0.0 |
| C | 269 | 21 | 137 | 1.5 | 44.1 | 44.1 | 44.1 | 0.0 |
| D* | 570 | 9 | 49 | 4.1 | 46.8 | 46.8 | 46.8 | 0.0 |
| E* | 618 | 6 | 24 | 9.9 | 46.8 | 46.8 | 46.8 | 0.0 |
| F* | 866 | 49 | 43 | 6.0 | 50.2 | 50.2 | 50.2 | 0.0 |
| G* | 940 | 98 | 69 | 5.8 | 52.1 | 52.1 | 52.1 | 0.0 |
| H* | 1,035 | 31 | 33 | 6.1 | 59.8 | 59.8 | 59.8 | 0.0 |
| I* | 1,336 | 35 | 58 | 4.0 | 62.4 | 62.4 | 62.4 | 0.0 |
| J | 1,536 | 40 | 43 | 7.1 | 66.4 | 66.4 | 66.4 | 0.0 |
| K | 1,563 | 7 | 20 | 10.0 | 66.9 | 66.9 | 66.9 | 0.0 |
| L | 1,764 | 35 | 106 | 1.9 | 71.6 | 71.6 | 71.6 | 0.0 |
| M | 1,811 | 20 | 52 | 3.8 | 71.6 | 71.6 | 71.6 | 0.0 |
| N | 1,938 | 22 | 53 | 3.8 | 71.8 | 71.8 | 71.8 | 0.0 |
| O | 2,017 | 20 | 76 | 2.6 | 73.9 | 73.9 | 73.9 | 0.0 |
| P | 2,265 | 39 | 98 | 2.0 | 73.9 | 73.9 | 73.9 | 0.0 |
| Q | 2,513 | 25 | 70 | 2.8 | 74.0 | 74.0 | 74.0 | 0.0 |
| R | 2,714 | 125 | 101 | 2.0 | 75.3 | 75.3 | 75.3 | 0.0 |
| S | 2,915 | 144 | 146 | 1.4 | 75.4 | 75.4 | 75.4 | 0.0 |
| T | 3,168 | 111 | 132 | 1.5 | 75.4 | 75.4 | 75.4 | 0.0 |
| U | 3,448 | 15 | 54 | 3.7 | 75.4 | 75.4 | 75.4 | 0.0 |
| V | 3,501 | 55 | 201 | 1.0 | 76.7 | 76.7 | 77.6 | 0.9 |
| W | 3,622 | 75 | 261 | 0.8 | 76.7 | 76.7 | 77.6 | 0.9 |
| X | 3,670 | 39 | 192 | 1.0 | 76.7 | 76.7 | 77.6 | 0.9 |
| Y | 4,044 | 50 | 82 | 2.4 | 77.0 | 77.0 | 77.7 | 0.7 |
| Z | 4,240 | 26 | 65 | 3.1 | 77.9 | 77.9 | 78.1 | 0.2 |

¹ Feet above confluence with Chester Brook

* Cross sections D-I are not illustrated on the FIRM

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

WEST CHESTER BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|--------------------------------|---------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| West Chester Brook (continued) | | | | | | | | |
| AA | 4,261 ¹ | 39 | 133 | 1.5 | 80.8 | 80.8 | 81.2 | 0.4 |
| AB | 4,319 ¹ | 39 | 408 | 0.5 | 80.8 | 80.8 | 81.2 | 0.4 |
| AC | 4,625 ¹ | 26 | 79 | 2.5 | 80.8 | 80.8 | 81.2 | 0.4 |
| AD | 4,699 ¹ | 27 | 105 | 1.9 | 84.1 | 84.1 | 84.2 | 0.1 |
| AE | 4,800 ¹ | 50 | 185 | 1.1 | 87.0 | 87.0 | 87.0 | 0.0 |
| AF | 5,011 ¹ | 20 | 70 | 2.8 | 93.3 | 93.3 | 93.5 | 0.2 |
| AG | 5,306 ¹ | 14 | 26 | 7.8 | 102.9 | 102.9 | 102.9 | 0.0 |
| AH | 5,570 ¹ | 32 | 34 | 5.9 | 114.1 | 114.1 | 114.1 | 0.0 |
| Whitehall Brook | | | | | | | | |
| A | 1,950 ² | 726 | 3,691 | 0.3 | 280.0 | 280.0 | 281.0 | 1.0 |
| B | 2,870 ² | 898 | 6,240 | 0.2 | 282.5 | 282.5 | 283.5 | 1.0 |
| C | 4,600 ² | 415 | 3,040 | 0.4 | 283.1 | 283.1 | 284.1 | 1.0 |
| D | 5,750 ² | 158 | 1,069 | 1.1 | 283.5 | 283.5 | 284.5 | 1.0 |
| E | 8,870 ² | 242 | 1,482 | 0.8 | 284.0 | 284.0 | 285.0 | 1.0 |
| F | 10,770 ² | 37 | 124 | 9.8 | 284.6 | 284.6 | 285.0 | 0.4 |
| G | 12,870 ² | 110 | 599 | 2.0 | 288.8 | 288.8 | 289.7 | 0.9 |
| H | 13,790 ² | 112 | 638 | 1.9 | 289.3 | 289.3 | 290.1 | 0.8 |
| I | 14,760 ² | 140 | 388 | 3.1 | 290.0 | 290.0 | 290.7 | 0.7 |
| J | 15,600 ² | 185 | 685 | 1.8 | 291.3 | 291.3 | 292.2 | 0.9 |
| K | 17,100 ² | 104 | 386 | 3.1 | 293.2 | 293.2 | 294.2 | 1.0 |
| Willard Brook | | | | | | | | |
| A | 1,700 ³ | 150 | 622 | 4.7 | 309.2 | 309.2 | 309.8 | 0.6 |
| B | 3,700 ³ | 560 | 633 | 4.6 | 329.5 | 329.5 | 329.5 | 0.0 |
| C | 4,900 ³ | 70 | 304 | 9.6 | 345.9 | 345.9 | 346.1 | 0.2 |

¹ Feet above confluence with Chester Brook

² Feet above confluence with Sudbury River

³ Feet above confluence with Walker Brook 2

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

WEST CHESTER BROOK – WHITEHALL BROOK – WILLARD BROOK

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Winthrop Canal | | | | | | | | |
| A | 237 | 12 | 67 | 4.6 | 180.5 | 180.5 | 180.5 | 0.0 |
| B | 755 | 12 | 84 | 3.7 | 181.1 | 181.1 | 181.9 | 0.8 |
| C | 1,034 | 18 | 108 | 2.9 | 181.4 | 181.4 | 182.4 | 1.0 |
| D | 1,187 | 19 | 93 | 3.3 | 181.5 | 181.5 | 182.5 | 1.0 |
| E | 1,298 | 12 | 81 | 3.9 | 183.4 | 183.4 | 183.6 | 0.2 |
| F | 1,457 | 12 | 83 | 3.7 | 183.5 | 183.5 | 184.0 | 0.5 |
| G | 1,599 | 12 | 84 | 3.7 | 184.1 | 184.1 | 184.2 | 0.1 |
| H | 1,779 | 12 | 90 | 3.4 | 184.2 | 184.2 | 184.9 | 0.7 |
| I | 1,927 | 20 | 140 | 2.2 | 184.3 | 184.3 | 185.1 | 0.8 |
| J | 2,006 | 12 | 96 | 3.3 | 184.3 | 184.3 | 185.2 | 0.9 |
| K | 2,212 | 12 | 101 | 2.0 | 185.3 | 185.3 | 185.7 | 0.4 |
| L | 2,391 | 10 | 88 | 2.3 | 185.4 | 185.4 | 186.0 | 0.6 |
| M | 2,666 | 171 | 882 | 0.2 | 185.8 | 185.8 | 186.6 | 0.8 |
| N | 2,903 | 15 | 131 | 1.6 | 185.8 | 185.8 | 186.6 | 0.8 |
| O | 3,167 | 15 | 131 | 1.6 | 185.8 | 185.8 | 186.7 | 0.9 |
| P | 3,299 | 15 | 164 | 1.3 | 187.1 | 187.1 | 188.0 | 0.9 |
| Q | 3,558 | 18 | 195 | 1.1 | 187.4 | 187.4 | 188.3 | 0.9 |
| R | 4,361 | 18 | 193 | 1.1 | 187.4 | 187.4 | 188.3 | 0.9 |
| S | 4,530 | 328 | 1,723 | 0.1 | 187.4 | 187.4 | 188.4 | 1.0 |
| T | 4,730 | 328 | 1,724 | 0.1 | 187.4 | 187.4 | 188.4 | 1.0 |

¹ Feet above Linden Pond Dam

TABLE 8

FEDERAL EMERGENCY MANAGEMENT AGENCY

**MIDDLESEX COUNTY, MA
(ALL JURISDICTIONS)**

FLOODWAY DATA

WINTHROP CANAL

| FLOODING SOURCE | | FLOODWAY | | | BASE FLOOD WATER-SURFACE ELEVATION (FEET NAVD) | | | |
|-----------------|-----------------------|--------------|----------------------------|---------------------------------|--|------------------|---------------|----------|
| CROSS SECTION | DISTANCE ¹ | WIDTH (FEET) | SECTION AREA (SQUARE FEET) | MEAN VELOCITY (FEET PER SECOND) | REGULATORY | WITHOUT FLOODWAY | WITH FLOODWAY | INCREASE |
| Witch Brook | | | | | | | | |
| A | 4,000 | 155 | 617 | 2.6 | 259.0 | 259.0 | 259.9 | 0.9 |
| B | 5,350 | 181 | 769 | 2.1 | 263.5 | 263.5 | 264.3 | 0.8 |
| C | 6,600 | 220 | 1,226 | 0.2 | 268.4 | 268.4 | 268.5 | 0.1 |
| D | 7,200 | 90 | 485 | 0.6 | 268.4 | 268.4 | 268.5 | 0.1 |
| E | 9,350 | 34 | 68 | 4.1 | 270.8 | 270.8 | 271.4 | 0.6 |
| F | 11,200 | 21 | 41 | 6.9 | 286.5 | 286.5 | 286.9 | 0.4 |
| G | 12,900 | 21 | 38 | 7.3 | 311.5 | 311.5 | 311.9 | 0.4 |
| H | 13,500 | 20 | 39 | 7.2 | 323.8 | 323.8 | 324.5 | 0.7 |

¹ Feet above confluence with Squannacook River

| | | |
|----------------|---|----------------------|
| TABLE 8 | FEDERAL EMERGENCY MANAGEMENT AGENCY | FLOODWAY DATA |
| | MIDDLESEX COUNTY, MA (ALL JURISDICTIONS) | WITCH BROOK |