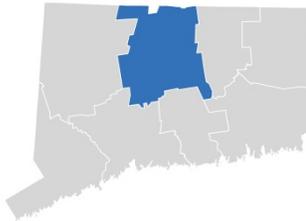


# FLOOD INSURANCE STUDY

## FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 11



### HARTFORD COUNTY, CONNECTICUT (ALL JURISDICTIONS)

COMMUNITY NAME	NUMBER	COMMUNITY NAME	NUMBER
TOWN OF AVON	090021	TOWN OF PLAINVILLE	090034
TOWN OF BERLIN	090022	TOWN OF ROCKY HILL	090142
TOWN OF BLOOMFIELD	090122	TOWN OF SIMSBURY	090035
CITY OF BRISTOL	090023	TOWN OF SOUTH WINDSOR	090036
TOWN OF BURLINGTON	090145	TOWN OF SOUTHTON	090037
TOWN OF CANTON	090135	TOWN OF SUFFIELD	090038
TOWN OF EAST GRANBY	090025	TOWN OF WEST HARTFORD	095082
TOWN OF EAST HARTFORD	090026	TOWN OF WETHERSFIELD	090040
TOWN OF EAST WINDSOR	090027	TOWN OF WINDSOR	090041
TOWN OF ENFIELD	090028	TOWN OF WINDSOR LOCKS	090042
TOWN OF FARMINGTON	090029		
TOWN OF GLASTONBURY	090124		
TOWN OF GRANBY	090125		
CITY OF HARTFORD	095080		
TOWN OF HARTLAND	090146		
TOWN OF MANCHESTER	090031		
TOWN OF MARLBOROUGH	090148		
CITY OF NEW BRITAIN	090032		
TOWN OF NEWINGTON	090033		

**PRELIMINARY:**

**AUGUST 10, 2015**

FLOOD INSURANCE STUDY NUMBER  
**09003CV002C**

Version Number 2.3.3.2



**FEMA**

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**Published Separately**

Flood Insurance Rate Map (FIRM)

## 5.2 Hydraulic Analyses

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

For streams for which hydraulic analyses were based on cross sections, locations of selected cross sections are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 6.3), selected cross sections are also listed on Table 24, "Floodway Data."

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

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Austin Brook	Confluence with Stony Brook	Corporate Limits of Town of East Granby	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	March, 1995		
Avery Brook	Corporate Limits of Town of South Windsor	Beelzebub Road	USGS Floodflow Formulas (Weiss, 1975) combined with flood hydrograph analysis for Webster Brook using Piper Brook	HEC-2 (USACE, 1973)	March, 1978		
Avery Brook	Corporate Limits of Town of South Windsor	Beelzebub Road	USGS Floodflow Formulas (Weiss, 1975); Rational Method applied to headwater locations	HEC-2 (USACE, 1973)	May, 1988		
Avery Brook	Entire length in Town of Manchester		USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1984)	July, 1989		
Avery Brook	Corporate Limits of Town of South Windsor	Beelzebub Road	HEC-1 (USACE, 1990)	HEC-RAS (USACE, 1997)	September, 1998		
Bancroft Brook	Entire length in Town of South Windsor		USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 1998		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Bancroft Brook	Entire length in Town of South Windsor		USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	August, 2002		
Bancroft Brook	Entire length in Town of South Windsor		USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Bancroft Brook	Entire length in Town of South Windsor		USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	May, 1988		
Barbour Brook	Confluence with Cherry Brook	Barbourtown Rd (1st crossing)	USGS Floodflow Formulas (Weiss, 1975); Rational Method applied to headwater locations	HEC-2 (USACE, 1973)	October, 1977		
Barbour Brook	Confluence with Cherry Brook	Barbourtown Rd (1st crossing)	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1988		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Bass Brook	Corporate Limits of City of New Britain	about 800 ft upstream of Lewis Rd	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied; special flow considerations in upper Bass Brook evaluated	HEC-RAS (USACE, 1997)	May, 2000		
Bass Brook	Confluence with Piper Brook	Corporate Limits of Town of Newington	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS and HEC-2 (USACE, 1998 and 1991)	October, 2000		
Bass Brook	Corporate Limits of City of New Britain	about 800 ft upstream of Lewis Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Bass Brook	Corporate Limits of City of New Britain	about 800 ft upstream of Lewis Rd	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied; special flow considerations in upper Bass Brook evaluated	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1995		
Batterson Park Pond Brook	Upper Pond Dam	about 115 ft upstream of Brittany Farms Rd	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	HEC-RAS (USACE, 1997)	May, 2000		
Batterson Park Pond Brook	Upper Pond Dam	about 115 ft upstream of Brittany Farms Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Batterson Park Pond Brook	Upper Pond Dam	about 115 ft upstream of Brittany Farms Rd	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1995		
Beamans Brook	Confluence with North Branch Park River and Wash Brook	Approximately 1,180 feet upstream of Filley Street	Probability-discharge curves developed from USGS North Branch Park River gage (38 yrs record)	HEC-2 (USACE, 1972)	April, 1976		
Beamans Brook	Confluence with North Branch Park River and Wash Brook	Approximately 1,180 feet upstream of Filley Street	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		
Beamans Brook	Confluence with North Branch Park River and Wash Brook	Approximately 1,180 feet upstream of Filley Street	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		
Beaver Brook	Confluence with Connecticut River	Jordan Lane	Frequency-discharge relationship developed from USGS gaging station on South Branch Park River at Hartford	HEC-2 (USACE, 1973)	March, 1976		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Beeman's Brook	Confluence with Connecticut River	King St	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 2000		
Beeman's Brook	Confluence with Connecticut River	King St	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	February, 1978		
Belcher Brook	Confluence with the Mattabesset River	Town of Berlin Corporate Limits	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1979		
Belcher Brook	Confluence with the Mattabesset River	Town of Berlin Corporate Limits	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
Big Brook	Confluence with Thompson Brook	Haynes Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1984		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Bigelow Brook	Confluence with Hockanum River	About 1,000 ft upstream of Weaver Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1983		
Bigelow Brook	Confluence with Hockanum River	About 1,000 ft upstream of Weaver Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1989		
Bigelow Brook	Confluence with Hockanum River	About 1,000 ft upstream of Weaver Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	January, 1992		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Bigelow Brook	Confluence with Hockanum River	About 1,000 ft upstream of Weaver Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 1978		
Birch Mountain Brook	Confluence with Hop Brook	Birch Mountain Road	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1984)	January, 1992		
Birch Mountain Brook	Confluence with Hop Brook	Birch Mountain Road	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1984)	July, 1989		
Blackledge River	Corporate Limits of Town of Marlborough	Approximately 550 feet upstream of Jones Hollow Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		
Blackledge River	Corporate Limits of Town of Marlborough	Approximately 550 feet upstream of Jones Hollow Rd	LPIII analysis of Blackledge River near Gilead gage (01193300) 25 yrs record (1960-84)	HEC-RAS (USACE, 1998)	September, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Blackledge River	Corporate Limits of Town of Marlborough	Approximately 2,620 ft upstream of West Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		
Bradley Brook	Confluence with East Branch Salmon Brook	Corporate Limits of the Town of Granby	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		
Broad Brook	Confluence with the Scantic River	Above Mill Pond	LPIII analysis of USGS gage on Broad Brook	HEC-2 (USACE, 1973)	February, 1977		
Buckhorn Brook	Abbe Road	About 800 ft downstream of Monroe Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 2000		
Buckhorn Brook	Abbe Road	About 800 ft downstream of Monroe Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	February, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Burnham Brook	Entire length in Town of East Hartford		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LP III analysis of gage record; includes reservoir routing analysis	HEC-2 (USACE, 1973)	August, 1977		
Cattle Lot Brook	Entire length in Town of Marlborough		USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 2000		
Cattle Lot Brook	Entire length in Town of Marlborough		USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Cherry Brook	Confluence with Farmington River	about 2,000 ft north of Barkhamsted Rd	USGS Floodflow Formulas (Weiss, 1975); Rational Method applied to headwater locations	HEC-2 (USACE, 1973)	October, 1977		
Cherry Brook	Confluence with Farmington River	about 2,000 ft north of Barkhamsted Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1988		
Chidsey Brook	Confluence with Thompson Brook	Upstream side of County Club Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1984		
Connecticut River	Entire length of Hartford County		LPIII analysis of Connecticut River gages at Hartford and at Thompsonville (Ahearn, 2005)	HEC-RAS (USACE, 2005)			
Copper Mine Brook	Confluence with Pequabuck River	Corporate Limits	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Creamery Brook	Confluence with Connecticut River	Mack Street	USCS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		DEM model provided by FEMA and bathymetric surveys of the river performed by Roald Haestad, Inc.
Creamery Brook (Town of East Granby)	Confluence with Sanborn and Sheldens Brook	Approximately 1 mile upstream of Hillcrest Dr	USGS Regional Regression Equations (Weiss, 1983)	WSPRO (Shearman, 1990)	March, 1995		
Creamery Brook (Town of Granby)	Confluence with East Branch Salmon Brook	Approximately 900 feet upstream of Creamery Hill Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Creamery Brook (Town of Windsor)	Confluence with Connecticut River	Mack Street	USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		
Crooked Brook	Confluence with Belcher Brook	CONRAIL bridge	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
Deckers Brook	Confluence with Connecticut River		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Deckers Brook	Confluence with Connecticut River	Approximately 1,200 feet upstream of Windsor Ave	USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		
DeGrayes Brook	Corporate Limits of Town of East Granby	Approximately 500 feet upstream of Nicholson Rd	USGS Regional Regression Equations (Weiss, 1983)	WSPRO (Shearman, 1990)	March, 1995		
Dickinson Creek	Entire length in Town of Marlborough		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		
Dickinson Creek	Entire length in Town of Marlborough		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Dickinson Creek	Entire length in Town of Marlborough		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		
Dismal Brook	East Street	Corporate Limits of the Town of Granby	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		
Dividend Brook	Confluence with Connecticut River	Approximately 80 feet upstream of Brook St	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	November, 1977		
Dry Brook	Confluence with Scantic River	Approximately 2,000 feet upstream of Griffen Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	May, 1988		
Dry Brook	Confluence with Scantic River	Approximately 2,000 feet upstream of Griffen Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 1998		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Dry Brook	Confluence with Scantic River	Approximately 2,000 feet upstream of Griffen Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	August, 2002		
Dry Brook	Confluence with Scantic River	Approximately 2,000 feet upstream of Griffen Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
East Branch Bradley Brook	Confluence with Bradley Brook	Approximately 150 feet upstream of East Street	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		
East Branch Judd Brook	Confluence with Judd Brook and Humiston Brook	approximately 1,940 ft upstream of Marion Ave	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS (USACE, 1998)	April, 2000		
East Branch Judd Brook	Confluence with Judd Brook	Approximately 250 ft upstream of Frost St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1987		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
East Branch Judd Brook	Confluence with Judd Brook and Humiston Brook	approximately 1,940 ft upstream of Marion Ave	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1995		
East Branch Rattlesnake Brook	Confluence with Rattlesnake Brook	Approximately 150 feet downstream of RT 44 and 202	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1988		
East Branch Salmon Brook	Entire length in Town of Granby		LPIII analysis of gaging station record (13-yrs); at RT 20	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
East Branch Salmon Brook	Entire length in Town of Granby		LPIII analysis of gaging station record (13-yrs); at RT 20	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	October, 1977		
East Branch Trout Brook	Confluence with South Branch Park River - Trout Brook	Mansfield Avenue	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
East Branch Trout Brook	Confluence with South Branch Park River - Trout Brook	Mansfield Avenue	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
East Fork of East Branch of Bradley Brook	Confluence with East Branch Bradley Brook	Approximately 170 feet upstream of East Street	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Eightmile River	Confluence with Quinnipiac River	Jude Lane	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1987		
Eightmile River	Confluence with Quinnipiac River	Jude Lane	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1995		
Eightmile River	Confluence with Quinnipiac River	Jude Lane	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Eightmile River	Confluence with Quinnipiac River	Jude Lane	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1979		
Farm Brook	Confluence with Plum Gully Brook	Oakland Road Bridge	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 1998		
Farm Brook	Confluence with Plum Gully Brook	Oakland Road Bridge	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	August, 2002		
Farm Brook	Confluence with Plum Gully Brook	Oakland Road Bridge	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Farm Brook	Confluence with Plum Gully Brook	Oakland Road Bridge	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	May, 1988		
Farmington River	Entire length in Town of Bloomfield		USACE analysis of USGS gage Farmington River at Rainbow Dam in Windsor	HEC-2 (USACE, 1972)	April, 1976		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Farmington River	Entire length in Town of Bloomfield		Area-discharge relationship used to interpolate discharges based on drainage area (method described in the NRCS National Engineering Handbook (SCS, 1972).	HEC-2 (USACE, 1973)	June, 1990		
Farmington River	Entire length in Town of Bloomfield		Area-discharge relationship used to interpolate discharges based on drainage area (method described in the NRCS National Engineering Handbook (SCS, 1972).	HEC-2 (USACE, 1973)	March, 1986		hydraulic modeling revised after channelization project completed
Farmington River	Corporate Limits (Burlington and Avon)	Corporate Limits (New Hartford)	LPIII analysis of USGS gaging records on the Farmington River by USACE, modifying results for the effects of storage.	HEC-2 (USACE, 1973)	October, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Farmington River	Entire length in Town of Windsor		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		
Farmington River	Entire length in Town of Windsor		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Farmington River	Entire length of Town of Burlington		LPIII analysis of USGS gaging records on the Farmington River near Tariffville (period of record 1928-39 and 1971-86) and at Rainbow (1940-86) and, modifying results for the effects of three flood control reservoirs.	HEC-2 (USACE, 1976)	July, 1979		
Farmington River	Entire length in Town of East Granby		Flows from FIS for towns of Simsbury and Bloomfield	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Farmington River	Entire length in Town of Farmington		LPIII analysis of USGS gaging records on the Farmington River at Unionville, at River Glen, and near Tariffville (period of record 1928-39 and 1971-86) and at Rainbow (1940-86) and, modifying results for the effects of three flood control reservoirs.	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1984		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Farmington River	Entire length in Town of Farmington		LPIII analysis of USGS gaging records on the Farmington River at Unionville, at River Glen, and near Tariffville (period of record 1928-39 and 1971-86) and at Rainbow (1940-86) and, modifying results for the effects of three flood control reservoirs.	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1976		
Farmington River	Corporate Limits (Burlington and Avon)	Corporate Limits (New Hartford)	LPIII analysis of USGS gaging records on the Farmington River by USACE, modifying results for the effects of storage.	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1988		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Farmington River	Entire length in Town of Simsbury		LPIII analysis of USGS gaging records on the Farmington River near Tariffville (period of record 1928-39 and 1971-86) and at Rainbow (1940-86) and, modifying results for the effects of three flood control reservoirs.	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1984		
Farmington River	Entire length in Town of Simsbury		LPIII analysis of USGS gaging records on the Farmington River near Tariffville (period of record 1928-39 and 1971-86) and at Rainbow (1940-86) and, modifying results for the effects of three flood control reservoirs.	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1974		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Farmington River	Entire length in Town of A von		LPIII analysis of USGS gaging records on the Farmington River near Tariffville (period of record 1928-39 and 1971-86) and at Rainbow (1940-86) and, modifying results for the effects of three flood control reservoirs.	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1984		
Farmington River	Entire length in Town of A von		LPIII analysis of USGS gaging records on the Farmington River near Tariffville (period of record 1928-39 and 1971-86) and at Rainbow (1940-86) and, modifying results for the effects of three flood control reservoirs.	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1974		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Farmington River	Entire length in Town of East Granby		Flows from FIS for towns of Simsbury and Bloomfield	WSPRO (Shearman, 1990)	March, 1995		
Farnham Drive	Entire length in Town of East Hartford		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record	HEC-2 (USACE, 1973)	August, 1977		
Fawn Brook	Entire length in Town of Marlborough		USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS (USACE, 1998)	September, 2000		
Fawn Brook	Entire length in Town of Marlborough		USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Fawn Hill Brook	Entire length in Town of Marlborough		USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 2000		
Fawn Hill Brook (lower reach)	Entire length in Town of Marlborough		USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		
Filley Brook	Confluence with Wash Brook	Approximately 980 feet upstream of Park Ave	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	June, 1990		
Filley Brook	Confluence with Wash Brook	Approximately 980 feet upstream of Park Ave	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	March, 1986		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Flat Brook	Entire length in Town of Marlborough		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		
Flat Brook	Entire length in Town of Marlborough		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 2000		
Flat Brook	Entire length in Town of Marlborough		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Folly Brook (Town of Manchester)	Confluence with Hop Brook	Approximately 100 feet upstream of Keeney Street	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1983		
Folly Brook (Town of Manchester)	Confluence with Hop Brook	Approximately 100 feet upstream of Keeney Street	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1989		
Folly Brook (Town of Manchester)	Confluence with Hop Brook	Approximately 100 feet upstream of Keeney Street	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	January, 1992		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Folly Brook (Town of Manchester)	Confluence with Hop Brook	Approximately 100 feet upstream of Keeney Street	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 1978		
Folly Brook (Town of Wethersfield)	Corporate Limits of Town of Wethersfield	Approximately 850 feet upstream of Wells Road	Frequency-discharge relationship developed from USGS gaging station on South Branch Park River at Hartford	HEC-2 (USACE, 1973)	March, 1976		
Foot Sawmill Brook	Confluence with Blackledge River	Approximately 500 feet upstream of Stony Brook Drive	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Foot Sawmill Brook	Confluence with Blackledge River	Approximately 500 feet upstream of Stony Brook Drive	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 2000		
Foot Sawmill Brook	Confluence with Blackledge River	Approximately 500 feet upstream of Stony Brook Drive	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		
Freshwater Brook	Entire length in Town of Enfield		USGS Floodflow Formulas for urbanized and nonurbanized areas of Connecticut (Weiss, 1990)	HEC-2 (USACE, 1973)	September, 2000		
Freshwater Brook	Entire length in Town of Enfield		USGS Floodflow Formulas for urbanized and nonurbanized areas of Connecticut (Weiss, 1990)	HEC-2 (USACE, 1973)	February, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Gaffney Brook	Francis Street	1,400 ft upstream of Francis St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1978		
Gaffney Brook	Francis Street	1,400 ft upstream of Francis St	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 2000		
Gaffney Brook	Francis Street	1,400 ft upstream of Francis St	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1995		
Globe Hollow Brook	Entire length in Town of Manchester		USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1984)	January, 1992		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Globe Hollow Brook	Entire length in Town of Manchester		USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1984)	July, 1989		
Goff Brook	Entire length in Town of Rocky Hill		—	HEC-2 (USACE, 1973)	November, 1977		
Goff Brook	Confluence with Connecticut River	1860 Reservoir	Frequency-discharge relationship developed from USGS gaging station on South Branch Park River at Hartford	HEC-2 (USACE, 1973)	March, 1976		
Grape Brook	Confluence with Waterworks Brook	George Washington Road	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 2000		
Grape Brook	Confluence with Waterworks Brook	George Washington Road	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	February, 1978		
Griffin Brook	Confluence with Farmington River	Approximately 0.58 mile upstream of Terry Plains Rd	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	June, 1990		
Griffin Brook	Confluence with Farmington River	Approximately 0.58 mile upstream of Terry Plains Rd	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	March, 1986		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Grindle Brook	Confluence with Great Pond	Approximately 1,000 feet upstream of Great Pond	Rational Method	HEC-2 (USACE, 1973)	April, 1977		
Hart Meadow Brook	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
Hart Meadow Brook	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
Hatchery Brook	Confluence with Belcher Brook	Orchard Road	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
Hawley Brook	Confluence with the Farmington River	Approximately 650 feet upstream of Edwards Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1984		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Hayden Station Brook	Confluence with Connecticut River	Approximately 500 feet upstream of Hayden Station Rd	USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		
Hayden Station Brook	Confluence with Connecticut River		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		
Hills Pond Branch	Confluence with Porter Brook	Approximately 360 feet downstream of Unnamed Rd	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record	HEC-2 (USACE, 1973)	August, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Hockanum River	Entire length in Town of East Hartford		LPIII analysis of USGS gage (01192500)	HEC-2 (USACE, 1973)	August, 1977		
Hockanum River	Entire length in Town of Manchester		LPIII analysis of gaging station (01192500) 50 yr record	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1989		
Hockanum River	Entire length in Town of Manchester		LPIII analysis of gaging station (01192500) 50 yr record	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	January, 1992		
Hockanum River	Entire length in Town of Manchester		LPIII analysis of gaging station (01192500) 50 yr record	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Hockanum River	Entire length in Town of Manchester		LPIII analysis of gaging station (01192500) 50 yr record	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1983		
Holland Brook	Confluence with Meadow Drain Brook	Little Acres Road	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record from nearby gages	HEC-2 (USACE, 1973)	April, 1977		floodway analyses redone
Hop Brook	Confluence with Farmington River	The Sugarloaf	SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	HEC-2 (USACE, 1976)	May, 1984		
Hop Brook	Confluence with Hockanum River	Confluence of Birch Mountain and Porter Brooks	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1991)	January, 1992		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Hop Brook	Confluence with Hockanum River	Confluence of Birch Mountain and Porter Brooks	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1983		
Hop Brook	Confluence with Hockanum River	Confluence of Birch Mountain and Porter Brooks	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1989		
Hop Brook	Confluence with Hockanum River	Confluence of Birch Mountain and Porter Brooks	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Hubbard Brook	Confluence with Meadow Drain Brook	Approximately 1,700 feet downstream of Nipsic Road	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record from nearby gages	HEC-2 (USACE, 1973)	April, 1977		
Humiston Brook	Confluence with Judd Brook and East Branch Judd Brook	Approximately 25 ft upstream of Marion Ave	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1995		
Humiston Brook	Confluence with Judd Brook and East Branch Judd Brook	Approximately 25 ft upstream of Marion Ave	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1987		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Humiston Brook	Confluence with Judd Brook and East Branch Judd Brook	approximately 50 ft upstream of Marion Ave	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 2000		
Hungary Brook	Notch Road	Approximately 0.87 miles upstream of Quarry Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		
Jawbuck Brook	Entire length in Town of Enfield		USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 2000		
Jawbuck Brook	Entire length in Town of Enfield		USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	February, 1978		
Jim Brook	Corporate Limits (Avon)	Lawton Rd	USGS Floodflow Formulas (Weiss, 1975); Rational Method applied to headwater locations	HEC-2 (USACE, 1973)	October, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Jim Brook	Corporate Limits (Avon)	Lawton Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1988		
John Hall Brook	Confluence with Stocking Brook	Hallmere Reservoir	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
Judd Brook	Corporate Limits of Town of Southington	Confluence with East Branch Judd Brook and Humiston Brook	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS (USACE, 1998)	April, 2000		
Judd Brook	Corporate Limits of Town of Southington	Confluence with East Branch Judd Brook and Humiston Brook	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1987		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Judd Brook	Corporate Limits of Town of Southington	Confluence with East Branch Judd Brook and Humiston Brook	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1995		
Judd Brook	Corporate Limits of Town of Southington	Approximately 25 ft upstream of Marion Ave	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1979		
Kettle Brook	Confluence with Connecticut River	West Street	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	August, 1977		
Lake Erie Brook	Confluence with Thompson Brook	Approximately 270 feet below State Route 10	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1984		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Lower Pond Brook	Lower Pond Dam	about 130 ft upstream of Village Square Rd	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	HEC-RAS (USACE, 1997)	May, 2000		
Lower Pond Brook	Lower Pond Dam	about 130 ft upstream of Village Square Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1978		
Lower Pond Brook	Lower Pond Dam	about 130 ft upstream of Village Square Rd	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1995		
Lydall Brook	Entire length in Town of Manchester		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1983		Upper part of the Bass Brook drainage system has special flow considerations (sizeable portion of Lower Pond Brook drainage area, is rerouted to Rock Ledge Pond drainage area)

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Lydall Brook	Entire length in Town of Manchester		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1989		Upper part of the Bass Brook drainage system has special flow considerations (sizeable portion of Lower Pond Brook drainage area, is rerouted to Rock Ledge Pond drainage area)
Lydall Brook	Entire length in Town of Manchester		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	January, 1992		
Lydall Brook	Entire length in Town of Manchester		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Lyman Brook	Confluence with Blackledge River	Hebron Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		
Lyman Brook	Confluence with Blackledge River	Hebron Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 2000		
Lyman Brook	Confluence with Blackledge River	Hebron Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		
Marsh Pond Brook	Confluence with Muddy Brook	Approximately 450 feet upstream of Hatchett Hill Road	USGS Regional Regression Equations (Weiss, 1983)	WSPRO (Shearman, 1990)	March, 1995		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Mason Pond Brook	Confluence with Willow Brook	about 2,700 ft upstream of Confluence with Willow Brook	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1978		
Mason Pond Brook	Confluence with Willow Brook	about 2,700 ft upstream of Confluence with Willow Brook	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 2000		
Mason Pond Brook	Confluence with Willow Brook	about 2,700 ft upstream of Confluence with Willow Brook	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1995		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Mattabeset River	Entire length in Town of Berlin	—	LPIII analysis of USGS gaging records (15 yrs of record) record extended by correlation to nearby gages	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1979		
Mattabeset River	Just upstream of Division Street	Just downstream of Main Street,	LPIII analysis of USGS gaging records (15 yrs of record) record extended by correlation to nearby gages	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
Meadow Brook	Corporate Limits of Town of Windsor	Approximately 2,000 feet upstream of Tamarack Drive	USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Meadow Brook	Corporate Limits of Town of Windsor		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		
Mill Brook (Town of Windsor)	Entire length in Town of Windsor		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Mill Brook (Town of Windsor)	Entire length in Town of Windsor		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		
Mill Brook of Barbers Pond	Confluence with Barbers Pond	Approximately 200 feet downstream of Town of Bloomfield Northern Corporate Limits	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	June, 1990		
Mill Brook of Barbers Pond	Confluence with Barbers Pond	Approximately 200 feet downstream of Town of Bloomfield Northern Corporate Limits	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	March, 1986		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Mill Brook-Schoolhouse Brook (Town of Newington)	Confluence with Piper Brook	Dam at Mill Pond	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record	HEC-2 (USACE, 1973)	October, 1978		
Mill Brook-Schoolhouse Brook (Town of Newington)	Confluence with Piper Brook	Dam at Mill Pond	USGS Regional Regression Equations (Weiss, 1983); flows modified for urbanization (Sauer, 1983 (USGS WSP 2207))	HEC-RAS and HEC-2 (USACE, 1998 and 1991)	October, 2000		
Minister Brook	Confluence with Farmington River	Approximately 1,000 feet upstream of pine Glen Road	SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	HEC-2 (USACE, 1976)	May, 1984		
Misery Brook	Corporate Limits of Town of Southington	Approximately 6,600 ft upstream of East St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1987		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Misery Brook	Corporate Limits of Town of Southington	Approximately 6,600 ft upstream of East St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1995		
Misery Brook	Corporate Limits of Town of Southington	Approximately 6,600 ft upstream of East St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 2000		
Misery Brook	Corporate Limits of Town of Southington	Approximately 6,600 ft upstream of East St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1979		
Muddy Brook (Town of East Granby)	Confluence with Salmon Brook	Approximately 1.3 miles upstream of Confluence with Marsh Pond Brook	USGS Regional Regression Equations (Weiss, 1983)	WSPRO (Shearman, 1990)	March, 1995		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Muddy Brook (Town of Suffield)	Confluence with Stony Brook	Hill Street	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	December, 1977		
Munnisunk Brook	Confluence with Farmington River	County Road	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1976)	May, 1984		
Negro Hill Brook	Confluence with Copper Mine Brook	about 1,500 ft upstream of Falls Brook Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Nepaug River	Confluence with Farmington River	Approximately 0.7 mile upstream of Powder Mill Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1988		
Nod Brook	Corporate Limits of Town of Simsbury	Rocklyn Road	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1976)	May, 1984		
Nod Brook	Entire length in Town of A von		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1984		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
North Branch Park River	Corporate Limits of City of Hartford	Park River Conduit	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	March, 1985		
North Branch Park River	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
North Branch Park River	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
North Branch Park River	Entire length in Town of Bloomfield		Probability-discharge curves developed from USGS North Branch Park River gage (38 yrs record)	HEC-2 (USACE, 1972)	April, 1976		
North Branch Park River	Entire length in Town of Bloomfield		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		
North Branch Park River	Entire length in Town of Bloomfield		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
North Creek	about 500 ft downstream of North Main St	about 1,700 ft upstream of (Conrail) railroad bridge	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Pequabuck River	Corporate Limits	Corporate Limits	Weighted estimates of LPIII analysis of Pequabuck River gage record (36 yrs) and USGS Regional Regression Equations (Weiss, 1975).	HEC-2 (USACE, 1973)	March, 1978		
Pequabuck River	Corporate Limits	Corporate Limits	Weighted estimates of LPIII analysis of Pequabuck River gage record (36 yrs) and USGS Regional Regression Equations (Weiss, 1975).	HEC-2 (USACE, 1973)	March, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Pequabuck River	Entire length in Town of Farmington		—	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1976		
Pequabuck River	Entire length in Town of Plainville		LPIII analysis of USGS gaging records on the Pequabuck River in Bristol (30-yr record)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1979		
Pequabuck River	Entire length in Town of Plainville		LPIII analysis of USGS gaging records on the Pequabuck River in Bristol (30-yr record)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	January, 1980		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Pequabuck River	Entire length in Town of Farmington		LPIII analysis of USGS gaging records on the Pequabuck River in Bristol (40-yr record)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1984		
Pewterpot River	Confluence with Keeney Cove	Approximately 640 feet downstream of Unnamed Rd	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record	HEC-2 (USACE, 1973)	August, 1977		
Phelps Brook	Confluence with Farmington River	Phelps Rd	USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Phelps Brook	Confluence with Farmington River	Phelps Rd	USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		
Philo Brook	Confluence with Muddy Brook	Approximately 2,100 feet upstream of West Halladay Ave	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	December, 1977		
Piper Brook	Approximately 0.32 mile downstream of Confluence of Mill Brook	about 400 ft upstream of State RT 9	LPIII analysis of Piper Brook gage data (01190100) 16 yrs record	HEC-2 (USACE, 1973)	October, 1978		
Piper Brook	Corporate Limits of City of New Britain	about 280 ft upstream of Corporate Limits	USGS Regional Regression Equations (Weiss, 1983); flows modified for urbanization (Sauer, 1983 (USGS WSP 2207))	HEC-RAS (USACE, 1997)	May, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Piper Brook	Approximately 0.32 mile downstream of Confluence of Mill Brook	about 400 ft upstream of State RT 9	USGS Regional Regression Equations (Weiss, 1983); flows modified for urbanization (Sauer, 1983 (USGS WSP 2207)); split flow analysis Webster Brook and Piper Brook	HEC-RAS and HEC-2 (USACE, 1998 and 1991)	October, 2000		
Piper Brook	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
Piper Brook	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
Plum Gully Brook	Confluence with Podunk River	Approximately 400 feet downstream Ayers Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	May, 1988		
Plum Gully Brook	Confluence with Podunk River	Approximately 400 feet downstream Ayers Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 1998		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Plum Gully Brook	Confluence with Podunk River	Approximately 400 feet downstream Ayers Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Plum Gully Brook	Confluence with Podunk River	Approximately 400 feet downstream Ayers Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-RAS (USACE, 1998)	August, 2002		
Podunk River	Corporate Limits of Town of South Windsor	Approximately 100 feet downstream of Foster St	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record (01190050) 15 yrs record	HEC-2 (USACE, 1973)	May, 1988		
Podunk River	Corporate Limits of Town of South Windsor	Approximately 100 feet downstream of Foster St	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record (01190050) 15 yrs record	HEC-2 (USACE, 1973)	September, 1998		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Podunk River	Corporate Limits of Town of South Windsor	Approximately 100 feet downstream of Foster St	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record (01190050) 15 yrs record	HEC-2 (USACE, 1973)	March, 1978		
Podunk River	Corporate Limits of Town of South Windsor	Approximately 100 feet downstream of Foster St	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record (01190050) 15 yrs record	HEC-RAS (USACE, 1998)	August, 2002		
Polkville Brook	Confluence with Copper Mine Brook	about 400 ft upstream of Warner St	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Poplar Swamp Brook	Confluence with the Farmington River	Approximately 430 feet upstream of New Development Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1984		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Porter Brook (Town of East Hartford)	Corporate Limits of Town of East Hartford	Approximately 200 ft upstream of Confluence with Farnham Drive Branch	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record from nearby gages	HEC-2 (USACE, 1973)	August, 1977		
Porter Brook (Town of Glastonbury)	Entire length in Town of Glastonbury		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record from nearby gages	HEC-2 (USACE, 1973)	April, 1977		
Porter Brook (Town of Manchester)	Confluence with Hop Brook	Approximately 1,350 feet upstream of Autumn St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1983		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Porter Brook (Town of Manchester)	Confluence with Hop Brook	Approximately 1,350 feet upstream of Autumn St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1989		
Porter Brook (Town of Manchester)	Confluence with Hop Brook	Approximately 1,350 feet upstream of Autumn St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	January, 1992		
Porter Brook (Town of Manchester)	Confluence with Hop Brook	Approximately 1,350 feet upstream of Autumn St	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 1978		
Quarry Brook	Confluence with Podunk River	Approximately 70 feet downstream of Clark St	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	May, 1988		
Quarry Brook	Confluence with Podunk River	Approximately 70 feet downstream of Clark St	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 1998		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Quarry Brook	Confluence with Podunk River	Approximately 70 feet downstream of Clark St	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Quarry Brook	Confluence with Podunk River	Approximately 70 feet downstream of Clark St	USGS Floodflow Formulas (Weiss, 1975)	HEC-RAS (USACE, 1998)	August, 2002		
Quinnipiac River	Approximately 1,780 feet upstream of Mill Street	Approximately 150 feet downstream of Interstate Route 84	LPIII analysis of USGS gage at Wallingford (01196500) 50 yr record	HEC-2 (USACE, 1991)	August, 1995		
Quinnipiac River	Entire length in Town of Southington		LPIII analysis of USGS gage at Wallingford (01196500) 50 yr record	HEC-2 (USACE, 1991)	April, 2000		
Quinnipiac River	about 40 ft upstream of Long Swamp Road, New Britain	upstream of the inlet to Hamlin Pond; inlet to the off-ramp bridge from RT 72 and Interstate 84, Plainville	USGS Regional Regression Equations (Ahearn, 2004)	HEC-RAS version 4.1.0 (USACE, 2010)	July, 2013		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Quinnipiac River	Entire length in Town of Southington		LPIII analysis of USGS gage at Wallingford (01196500) 40 yr record	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1987		additional x-sections used in modeling
Quinnipiac River	Entire length in Town of Southington		LPIII analysis of USGS gage at Wallingford (01196500) 40 yr record	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1979		
Quinnipiac River	Corporate Limits of Town of Plainville	Hamlin Pond	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1979		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Quinnipiac River	Corporate Limits of Town of Plainville	Hamlin Pond	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	January, 1980		
Quinnipiac River Diversion Channel	Confluence with Quinnipiac River	about 2,500 feet upstream from confluence	LPIII analysis of USGS gage at Wallingford (01196500) 50 yr record	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1995		
Rattlesnake Brook	Confluence with Farmington River	East Hill Rd (1st crossing)	USGS Floodflow Formulas (Weiss, 1975); Rational Method applied to headwater locations	HEC-2 (USACE, 1973)	October, 1977		
Rattlesnake Brook	Confluence with Farmington River	East Hill Rd (1st crossing)	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1988		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Roaring Brook	Entire length in Town of Farmington		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1984		
Roaring Brook	Entire length in Town of A von		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1984		
Roaring Brook	Entire length in Town of A von		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	July, 1974		
Roaring Brook (Town of Glastonbury)	Confluence with Connecticut River	Hebron A venue	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	April, 1977		
Rock Hole Brook	Confluence with Webster Brook	about 235 ft upstream of Foxboro Driver	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	October, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Rock Hole Brook	Confluence with Webster Brook	about 235 ft upstream of Foxboro Driver	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS and HEC-2 (USACE, 1998 and 1991)	October, 2000		
Rockledge Brook	Confluence with South Branch Park River-Trout Brook	Approximately 200 feet upstream of Burnham Brook	SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
Rockledge Brook	Confluence with South Branch Park River-Trout Brook	Approximately 200 feet upstream of Burnham Brook	SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
Salmon Brook (Town of Glastonbury)	Confluence with Keeney Cove	Approximately 1,700 feet downstream of Keeney Street	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record from nearby gages	HEC-2 (USACE, 1973)	April, 1977		
Salmon Brook (Town of Granby and East Granby)	Entire length in Town of East Granby		LPIII analysis of USGS gaging records on the Salmon River (17 yr record)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1995		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Salmon Brook (Town of Granby and East Granby)	Entire length in Town of East Granby	Approximately 1.3 miles upstream of Confluence with Marsh Pond Brook	LPIII analysis of USGS gaging records on the Salmon River (17 yr record)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		
Salmon Brook (Town of Granby and East Granby)	Entire length in Town of Granby		LPIII analysis of USGS gaging records on the Salmon River (17 yr record)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		
Salmon Brook (Town of Granby and East Granby)	Entire length in Town of Granby		LPIII analysis of USGS gaging records on the Salmon River (17 yr record)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	October, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Sanborn Brook	Entire length in Town of East Granby		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		
Sanborn Brook	Entire length in Town of East Granby		USGS Floodflow Formulas (Weiss, 1975)	WSPRO (Shearman, 1990)	March, 1995		
Sandy Brook	Corporate Limits of City of New Britain	about 4,000 ft upstream of Corporate Limits (about 660 ft upstream of Ella Grasso Boulevard)	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	HEC-RAS (USACE, 1997)	May, 2000		
Sandy Brook	Corporate Limits of City of New Britain	about 4,000 ft upstream of Corporate Limits (about 660 ft upstream of Ella Grasso Boulevard)	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Sandy Brook	Corporate Limits of City of New Britain	about 4,000 ft upstream of Corporate Limits (about 660 ft upstream of Ella Grasso Boulevard)	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1995		
Scantic River	Approximately 130 feet above Route 191	Junction of Broad Brook	LPIII analysis of USGS gage on Scantic River (42 yrs record)	HEC-2 (USACE, 1973)	February, 1977		
Scantic River	Entire length in Town of South Windsor		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record (01184500) 45 yrs record	HEC-2 (USACE, 1973)	May, 1988		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Scantic River	Entire length in Town of South Windsor		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record (01184500) 45 yrs record	HEC-2 (USACE, 1973)	September, 1998		
Scantic River	Entire length in Town of South Windsor		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record (01184500) 45 yrs record	HEC-2 (USACE, 1973)	August, 2002		
Scantic River	Entire length in Town of South Windsor		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record (01184500) 45 yrs record	HEC-2 (USACE, 1973)	March, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Schoolhouse Brook	Dam at Mill Pond	about 110 ft upstream of Robbins Ave	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS and HEC-2 (USACE, 1998 and 1991)	October, 2000		
Schultz Pond Brook	Confluence with Willow Brook	about 800 ft upstream of Reservoir Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1978		
Schultz Pond Brook	Confluence with Willow Brook	about 800 ft upstream of Reservoir Rd	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1995		
Schultz Pond Brook	Confluence with Willow Brook	about 800 ft upstream of Reservoir Rd	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Scott Swamp Brook	Corporate Limits of Town of Farmington	Morea Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1984		
Sheldens Brook	Confluence of Creamery Brook	School Brook	USGS Floodflow Formulas (Weiss, 1975)	—	March, 1995		
Sheldens Brook	School Street	Approximately 1.4 miles upstream of School Street	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		
Smith Brook	Confluence with Meadow Drain Brook	Unnamed Road	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record from nearby gages	HEC-2 (USACE, 1973)	April, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
South Branch Lydall Brook	Entire length in Town of Manchester		USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1984)	January, 1992		
South Branch Lydall Brook	Entire length in Town of Manchester		USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1984)	July, 1989		
South Branch Park River	Corporate Limits of City of Hartford	Park River Conduit	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	March, 1985		
South Branch Park River	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
South Branch Park River	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
South Branch Pewterpot River	Entire length in Town of East Hartford		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record	HEC-2 (USACE, 1973)	August, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
South Tributary of Austin Brook	Confluence with Austin Brook	Approximately 1.7 miles upstream of Ridge Rd	USGS Regional Regression Equations (Weiss, 1983)	WSPRO (Shearman, 1990)	March, 1995		
Spring Lake Brook	Confluence with Quinnipiac River	approximately 390 ft upstream of Darling Drive	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1991)	April, 2000		
Spring Lake Brook	Confluence with Quinnipiac River	approximately 390 ft upstream of Darling Drive	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1991)	August, 1995		
Spring Lake Brook	Confluence with Quinnipiac River	Flanders Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1987		
Spruce Brook	Confluence with the Mattabesset River	Spruce Brook Rd	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
St. Joseph's Brook	Confluence with East Branch Trout Brook	Approximately 1,700 feet upstream of Asylum Avenue	SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	WSP-2 (SCS, 1982a)	June, 1990		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
St. Joseph's Brook	Confluence with East Branch Trout Brook	Approximately 1,700 feet upstream of Asylum Avenue	SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
Stocking Brook	Confluence with the Mattabeset River	Percival Park Road	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
Stony Brook	Entire length in Town of East Granby		USGS Floodflow Formulas (Weiss, 1975)	—	March, 1995		
Stony Brook	Confluence with Connecticut River	Approximately 300 feet upstream of Taintor St	Weighted regionally predicted values with gage data form a gage near West Suffield (01184000) with 16 yrs of partial record (1960-76).	HEC-2 (USACE, 1973)	December, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Stony Brook	Entire length in Town of East Granby		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1980		
Stoughton's Brook	Confluence with Connecticut River	Approximately 50 feet upstream of unnamed road	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	May, 1988		
Stoughton's Brook	Confluence with Connecticut River	Approximately 50 feet upstream of unnamed road	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 1998		
Stoughton's Brook	Confluence with Connecticut River	Approximately 50 feet upstream of unnamed road	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	August, 2002		
Stoughton's Brook	Confluence with Connecticut River	Approximately 50 feet upstream of unnamed road	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Stratton Brook	Confluence with Hop Brook	Woodchuck Hill Road	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1976)	May, 1984		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tenmile River	Entire length in Town of Southington		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1987		
Tenmile River	Entire length in Town of Southington		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1995		
Tenmile River	Entire length in Town of Southington		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tenmile River	Entire length in Town of Southington		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1979		
Terry Brook	Confluence with the Scantic River	about 200 ft upstream of Somers Rd	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS (USACE, 1998)	September, 2000		
Thompson Brook	Entire length in Town of A von		USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	June, 1984		
Tributary A to Copper Mine Brook	Confluence with Copper Mine Brook	0.5 miles upstream of Confluence with Copper Mine Brook	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Tributary A to Freshwater Brook	Confluence with Freshwater Brook		USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	September, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tributary A to Freshwater Brook	Confluence with Freshwater Brook	Approximately 700 feet upstream of Muddy Rd	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	February, 1978		
Tributary A to Goff Brook	Confluence with Goff Brook	Approximately 50 ft upstream of Coppermill Rd	Frequency-discharge relationship developed from USGS gaging station on South Branch Park River at Hartford	HEC-2 (USACE, 1973)	March, 1976		
Tributary A to Roaring Brook	Confluence with Roaring Brook	Approximately 4,000 feet upstream of Confluence with Roaring Brook	Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record from nearby gages	HEC-2 (USACE, 1973)	April, 1977		
Tributary A to Wash Brook	Confluence with Wash Brook	Approximately 350 feet downstream of West Newberry Road	Probability-discharge curves developed from USGS North Branch Park River gage (38 yrs record)	HEC-2 (USACE, 1972)	April, 1976		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tributary A to Wash Brook	Confluence with Wash Brook	Approximately 350 feet downstream of West Newberry Road	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		
Tributary A to Wash Brook	Confluence with Wash Brook	Approximately 350 feet downstream of West Newberry Road	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		
Tributary B to Coppermine Brook	Confluence with Copper Mine Brook	0.5 miles upstream of Confluence with Copper Mine Brook	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	March, 1978		
Tributary B to Smith Brook	Entire length in Town of Glastonbury		Rational Method	HEC-2 (USACE, 1973)	April, 1977		
Tributary B to Tributary A to Wash Brook	Confluence with Tributary A	Approximately 20 feet downstream of Woodland Ave	Probability-discharge curves developed from USGS North Branch Park River gage (38 yrs record)	HEC-2 (USACE, 1972)	April, 1976		
Tributary B to Tributary A to Wash Brook	Confluence with Tributary A	Approximately 20 feet downstream of Woodland Ave	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tributary B to Tributary A to Wash Brook	Confluence with Tributary A	Approximately 20 feet downstream of Woodland Ave	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		
Tributary C to Deckers Brook	Rood Ave	Approximately 150 feet downstream of Clover Avenue	USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		
Tributary C to Deckers Brook	Rood Ave	Approximately 150 feet downstream of Clover A venue	USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tributary C to Tributary A to Wash Brook	Confluence with Tributary A	Approximately 60 feet downstream of West Newberry Rd	Probability-discharge curves developed from USGS North Branch Park River gage (38 yrs record)	HEC-2 (USACE, 1972)	April, 1976		
Tributary C to Tributary A to Wash Brook	Confluence with Tributary A	Approximately 60 feet downstream of West Newberry Rd	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		
Tributary C to Tributary A to Wash Brook	Confluence with Tributary A	Approximately 60 feet downstream of West Newberry Rd	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		
Tributary D to Beamans Brook	Confluence with Beamans Brook	About 200 ft downstream of Blue Hills Flood Water Retarding Dam	Probability-discharge curves developed from USGS North Branch Park River gage (38 yrs record)	HEC-2 (USACE, 1972)	April, 1976		
Tributary D to Beamans Brook	Confluence with Beamans Brook	About 200 ft downstream of Blue Hills Flood Water Retarding Dam	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tributary D to Beamans Brook	Confluence with Beamans Brook	About 200 ft downstream of Blue Hills Flood Water Retarding Dam	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		
Tributary D to Hayden Station Brook	Entire length in Town of Windsor		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	January, 1982		
Tributary D to Hayden Station Brook	Entire length in Town of Windsor		USGS Floodflow Formula (Weiss, 1975) and analysis of nearby gage data (01184260, 10 yrs; 01188000, 42 yrs; 01190050, 12 yrs; 01190200, 16 yrs)	HEC-2 (USACE, 1973)	June, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tributary to North Branch Park River	Corporate Limits Bloomfield	Approximately 120 feet downstream of Cottage Grove Road	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	March, 1986		
Tributary to North Branch Park River	Town of Bloomfield Corporate Limits	Approximately 120 feet downstream of Cottage Grove Road	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	June, 1990		
Tributary to Tumbledown Brook	Confluence with Tumbledown Brook	Approximately 40 feet upstream of Mountain A venue	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	June, 1990		
Tributary to Tumbledown Brook	Confluence with Tumbledown Brook	Approximately 40 feet upstream of Mountain A venue	USGS Regional Regression Equations (Weiss, 1983)	HEC-2 (USACE, 1973)	March, 1986		
Trout Brook	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
Trout Brook	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1985		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tumbledown Brook	Confluence with Wash Brook	Town of Bloomfield Corporate Limits	Probability-discharge curves developed from USGS North Branch Park River gage (38 yrs record)	HEC-2 (USACE, 1972)	April, 1976		
Tumbledown Brook	Confluence with Wash Brook	Town of Bloomfield Corporate Limits	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		
Tumbledown Brook	Confluence with Wash Brook	Town of Bloomfield Corporate Limits	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		
Tumbledown Brook	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
Tumbledown Brook	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
Tumbledown Brook Channel	Confluence with Tumbledown Brook	Approximately 50 feet downstream of Cold Spring Flood Water Retarding Dam	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tumbledown Brook Channel	Confluence with Tumbledown Brook	Approximately 50 feet downstream of Cold Spring Flood Water Retarding Dam	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		
Tumbledown Brook Tributary	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
Tumbledown Brook Tributary	Entire length in Town of West Hartford		SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1990		
Two Stone-Collier Brook	Confluence with Goff Brook	Approximately 300 feet upstream of Goff Road	Frequency-discharge relationship developed from USGS gaging station on South Branch Park River at Hartford	HEC-2 (USACE, 1973)	March, 1976		
Unionville Brook	Confluence with the Farmington River	Approximately 305 feet upstream of Burlington Rd	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1984		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Unnamed Tributary to Dickinson Creek	Confluence with Dickinson Creek	Approximately 660 feet upstream of State RT 2	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS (USACE, 1998)	September, 2000		
Wash Brook	Confluence with North Branch Park River	About 200 ft upstream of Tunxis Ave	Probability-discharge curves developed from USGS North Branch Park River gage (38 yrs record)	HEC-2 (USACE, 1972)	April, 1976		
Wash Brook	Confluence with North Branch Park Brook	Approximately 200 feet upstream of Tunxis Ave	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	June, 1990		
Wash Brook	Confluence with North Branch Park Brook	Approximately 200 feet upstream of Tunxis Ave	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	HEC-2 (USACE, 1973)	March, 1986		
Waterworks Brook	Confluence with Connecticut River	Approximately 505 feet upstream of Elm Ave	USGS Floodflow Formulas (Weiss, 1975)	HEC-2 (USACE, 1973)	February, 1978		
Waterworks Brook	Confluence with Connecticut River	505 ft upstream of Elm St	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS (USACE, 1998)	September, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Webster Brook	Corporate Limits of Town of Newington	about 0.53 miles upstream of railroad crossing	USGS Floodflow Formulas (Weiss, 1975) combined with flood hydrograph analysis for Webster Brook using Piper Brook	HEC-2 (USACE, 1973)	October, 1978		
Webster Brook	500 ft downstream of Corporate Limits	New Britain Ave	USGS Regional Regression Equations (Weiss, 1983); flows modified for urbanization (Sauer, 1983 (USGS WSP 2207))	HEC-RAS (USACE, 1997)	May, 2000		
Webster Brook	Corporate Limits of Town of Newington	about 0.53 miles upstream of railroad crossing	USGS Regional Regression Equations (Weiss, 1983); split flow analysis of Webster Brook from Piper Brook	HEC-RAS and HEC-2 (USACE, 1998 and 1991)	October, 2000		
Webster Brook Tributary	Confluence with Webster Brook	about 1,310 ft upstream of Liberty St	USGS Regional Regression Equations (Weiss, 1983)	HEC-RAS and HEC-2 (USACE, 1998 and 1991)	October, 2000		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
West Branch Bradley Brook	Confluence with Bradley Brook Drive	Approximately 1,700 feet upstream of Stardust	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		
West Branch Dickinson Creek	Confluence with Dickinson Creek	Chapman Road	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	December, 1990		
West Branch Dickinson Creek	Confluence with Dickinson Creek	Chapman Road	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	September, 2000		
West Branch Farmington River	Entire length in Town of Hartland		LPIII analysis of gaging station record (40-yrs, 1929-69); West Branch Farmington at Riverton, CT	HEC-2 (USACE, 1973)	July, 1979		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
West Branch Salmon Brook	Confluence with Salmon Brook	Hungary Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1995		
West Branch Salmon Brook	Confluence with Salmon Brook	Hungary Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	October, 1977		
West Brook	Town of East Granby Corporate Limits	Approximately 270 feet upstream of Sweet Briar Road	USGS Regional Regression Equations (Weiss, 1983)	WSPRO (Shearman, 1990)	March, 1995		
Wickham Brook	Confluence with Meadow Drain Brook	Buttonball Lane	Rational Method	HEC-2 (USACE, 1973)	April, 1977		
Wildcat Brook	Confluence with Salmon Brook	Approximately 1,000 feet downstream of Johnny Cake Lane	Rational Method	HEC-2 (USACE, 1973)	April, 1977		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Willow Brook	Entire length in Town of East Hartford		Weighted estimates from USGS Regional Regression Equations (Weiss, 1975) and LPIII analysis of gage record; rational method applied in the headwater locations	HEC-2 (USACE, 1973)	August, 1977		
Willow Brook	Confluence with the Mattabeset River	Approximately 1,600 feet upstream of Park Road	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	August, 1979		
Willow Brook	Corporate Limits of City of New Britain	Approximately 1,600 ft upstream of Steele St	USGS Floodflow Formulas for urbanized and nonurbanized areas of Connecticut (Weiss, 1990)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	April, 1978		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Willow Brook	Confluence with the Mattabeset River	Approximately 1600 feet upstream of Park Road	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
Willow Brook	Entire length in Town of Berlin	—	USGS Regional Regression Equations (Weiss, 1983)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 1991		
Willow Brook	Corporate Limits of City of New Britain	about 1,600 ft upstream of Steele St	USGS Regional Regression Equations (Weiss, 1983); only 1-percent AEP restudied	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	May, 2000		
Wood Pond Brook	Confluence with South Branch Park Tunxis Avenue River-Trout Brook	Tunxis Avenue	SCS synthetic rainfall-runoff method, TR20 (SCS, 1982b)	WSP-2 (SCS, 1982a)	June, 1990		

**Table 13: Summary of Hydrologic and Hydraulic Analyses**

Flooding Source	Downstream Limit	Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Wood Pond Brook	Confluence with South Branch Park Tunxis Avenue River-Trout Brook	Tunxis Avenue	SCS synthetic rainfall-runoff method, TR20 (SCS. 1982b)	WSP-2 (SCS, 1982a)	June, 1985		
Woodridge Lake Inlet	Corporate Limits of Town of Farmington	Approximately 965 feet upstream of Shady Lane	USGS Floodflow Formulas (Weiss, 1975)	Step-backwater computer program, E431 and J635 for areas with critical flow, (Shearman, 1976)	March, 1984		

**Table 14: Roughness Coefficients**

Flooding Source	Channel “n”	Overbank “n”
Austin Brook	0.050	0.030-0.120
Avery Brook	0.015-0.050	0.050-0.120
Bancroft Brook	0.012-0.035	0.035-0.120
Barbour Brook	0.040	0.050-0.060
Bass Brook	0.030-0.060	0.035-0.100
Batterson Park Pond Brook	0.035	0.035-0.070
Beamans Brook	0.040	0.050
Beaver Brook	Unknown	Unknown
Beeman's Brook	0.015-0.060	0.035-0.090
Belcher Brook	0.020-0.055	0.045-0.080
Big Brook	0.035-0.045	0.045-0.080
Bigelow Creek	0.035-0.040	0.040-0.080
Birch Mountain Brook	0.030-0.060	0.040-0.100
Blackledge River	0.030-0.050	0.050-0.120
Bradley Brook	0.017-0.050	0.030-0.105
Broad Brook	0.030-0.050	0.050-0.080
Buckhorn Brook	0.015-0.060	0.035-0.090
Burnham Brook	0.020-0.120	0.015-0.050
Cattle Lot Brook	0.035	0.060
Cherry Brook	0.035-0.040	0.050-0.080
Chidsey Brook	0.030-0.040	0.055-0.080
Connecticut River	0.011-0.120	0.015-0.150
Copper Mine Brook	0.029-0.040	0.030-0.100
Creamery Brook	0.030-0.070	0.080-0.150
Crooked Brook	0.030-0.035	0.035-0.080
Deckers Brook	0.030-0.060	0.080-0.150
DeGraves Brook	0.050	0.100-0.120
Dickinson Creek	0.025-0.040	0.060-0.080
Dismal Brook	0.030-0.050	0.090-0.100
Dividend Brook	0.011-0.040	0.040-0.100
Dry Brook	0.012-0.035	0.035-0.120
East Branch Judd Brook	0.020-0.060	0.050-0.100
East Branch of Bradley Brook	Unknown	Unknown

**Table 14: Roughness Coefficients**

Flooding Source	Channel “n”	Overbank “n”
East Branch Rattlesnake Brook	0.040	0.055-0.060
East Branch Salmon Brook	0.025-0.080	0.030-0.100
East Branch Trout Brook	0.025-0.065	0.045-0.150
East Fork of East Branch of Bradley Brook	Unknown	Unknown
Eightmile River	0.025-0.045	0.040-0.080
Farm Brook	0.012-0.035	0.035-0.120
Farmington River	0.020-0.080	0.020-0.150
Farnham Drive Branch	0.020-0.120	0.015-0.050
Fawn Brook	0.035-0.040	0.070-0.150
Fawn Hill Brook	0.035	0.080
Filley Brook	0.030	0.050-0.100
Flat Brook	0.025-0.040	0.060-0.080
Folly Brook	0.030-0.035	0.035-0.080
Foot Sawmill Brook	0.025-0.035	0.050-0.080
Freshwater Brook	0.015-0.060	0.035-0.090
Gaffney Brook	0.030-0.035	0.030-0.100
Globe Hollow Brook	0.030-0.080	0.040-0.100
Goff Brook	0.011-0.040	0.040-0.100
Golf Brook	Unknown	Unknown
Grape Brook	0.015-0.060	0.035-0.090
Griffin Brook	0.020-0.060	0.080-0.110
Hart Meadow Brook	0.025-0.065	0.045-0.150
Hatchery Brook	0.020-0.035	0.060-0.080
Hawley Brook	0.028-0.045	0.050-0.080
Hayden Station Brook	0.030-0.060	0.080-0.150
Hills Pond Branch	0.020-0.120	0.015-0.050
Hockanum River	0.020-0.120	0.015-0.050
Hockanum River	0.035-0.045	0.050-0.060
Hop Brook	0.030-0.090	0.040-0.100
Humiston Brook	0.040-0.060	0.050-0.100
Hungary Brook	0.050-0.080	0.050-0.100
Jawbuck Brook	0.015-0.060	0.035-0.090

**Table 14: Roughness Coefficients**

Flooding Source	Channel “n”	Overbank “n”
Jim Brook	0.035-0.040	0.060-0.080
John Hall Brook	0.018-0.030	0.020-0.100
Judd Brook	0.040-0.060	0.040-0.100
Kettle Brook	0.025-0.035	0.040-0.065
Lake Erie Brook	0.030-0.045	0.045-0.060
Lower Pond Brook	0.030-0.035	0.040-0.100
Lydall Brook-Wilson Brook	0.020-0.060	0.070-0.100
Lyman Brook	0.025-0.040	0.040-0.080
Marsh Pond Brook	0.033-0.070	0.105-0.120
Mason Pond Brook	0.035	0.040-0.100
Mattabesset River	0.030-0.040	0.040-0.080
Meadow Brook	0.030-0.060	0.080-0.150
Mill Brook	0.020-0.125	0.030-0.150
Minister Brook	0.030-0.050	0.040-0.100
Misery Brook	0.030-0.045	0.035-0.080
Muddy Brook	0.035-0.050	0.060-0.120
Munnisunk Brook	0.030-0.050	0.040-0.100
Negro Hill Brook	0.035	0.035-0.110
Nepaug River	0.045-0.050	0.060-0.080
Nod Brook	0.030-0.050	0.040-0.100
North Branch Park River	0.020-0.065	0.040-0.120
North Creek	0.017-0.035	0.025-0.080
Patunk River	0.012-0.035	0.035-0.120
Pequabuck River	0.012-0.045	0.030-0.085
Pewterpot River	0.020-0.120	0.015-0.050
Phelps Brook	0.030-0.060	0.080-0.150
Philo Brook	0.035-0.045	0.060-0.120
Piper Brook	0.025-0.070	0.040-0.120
Plum Gully Brook	0.012-0.035	0.035-0.120
Polkville Brook	0.014-0.033	0.038-0.110
Poplar Swamp Brook	0.040	0.060-0.080
Porter Brook	0.020-0.120	0.015-0.070
Quarry Brook	0.012-0.035	0.035-0.120

**Table 14: Roughness Coefficients**

Flooding Source	Channel “n”	Overbank “n”
Quinnipiac River	0.020-0.060	0.030-0.120
Quinnipiac River Diversion Channel	0.035-0.045	0.030-0.080
Rattlesnake Brook	0.040	0.060-0.080
Roaring Brook	0.020-0.045	0.040-0.080
Rock Hole Brook	0.040-0.070	0.040-0.100
Rockledge Brook	0.025-0.065	0.045-0.150
Salmon Brook	0.030-0.040	0.040-0.080
Sanborn Brook	0.040	0.050-0.080
Sandy Brook	0.030-0.040	0.030-0.100
Scantic River	0.012-0.050	0.035-0.120
Schoolhouse Brook	0.020-0.060	0.040-0.100
Schultz Pond Brook	0.035	0.040-0.100
Scott Swamp Brook	0.040-0.045	0.050-0.080
Sheldens Brook	0.040-0.070	0.050-0.120
South Branch	0.020-0.120	0.015-0.050
South Branch Lydall Brook	0.060	0.100-0.300
South Branch Park River	0.025-0.045	0.040-0.120
South Branch Park River-Trout Brook	0.025-0.065	0.040-0.120
South Tributary of Austin Brook	0.050-0.070	0.070-0.110
Spring Lake Brook	0.030-0.050	0.040-0.080
Spruce Brook	0.018-0.035	0.020-0.080
St. Joseph's Brook	0.025-0.065	0.045-0.150
Stocking Brook	0.020-0.035	0.020-0.100
Stony Brook	0.035-0.045	0.040-0.120
Stoughton's Brook	0.012-0.035	0.035-0.120
Stratton Brook	0.030-0.050	0.040-0.100
Tenmile River	0.040-0.045	0.055-0.080
Terry Brook	0.030-0.060	0.030-0.100
Thompson Brook	0.035-0.040	0.050-0.080
Tributary A	0.015-0.060	0.035-0.090
Tributary A to Copper Mine Brook	0.018-0.040	0.025-0.100
Tributary B	0.040	0.050
Tributary C	0.030-0.060	0.050-0.150

**Table 14: Roughness Coefficients**

Flooding Source	Channel “n”	Overbank “n”
Tributary D	0.030-0.060	0.050-0.150
Tributary to North Branch Park River	0.040	0.120
Tributary to Tumbledown Brook	0.030-0.100	0.060-0.150
Tumbledown Brook	0.025-0.065	0.045-0.150
Tumbledown Brook Channel	0.040	0.050
Tumbledown Brook Tributary	0.040	0.050
Two Stone-Collier Brook	Unknown	Unknown
Unionville Brook	0.035-0.040	0.050-0.080
Unnamed Tributary of Dickinson Creek	0.035-0.040	0.070-0.100
Wash Brook	0.040	0.050
Waterworks Brook	0.030-0.070	0.040-0.100
Webster Brook	0.020-0.100	0.050-0.100
West Branch Dickinson Creek	0.040	0.060-0.080
West Branch Farmington River	0.030-0.035	0.035-0.070
West Branch of Bradley Brook	Unknown	Unknown
West Branch Salmon Brook	0.030-0.050	0.030-0.100
West Brook	0.030-0.050	0.030-0.120
Willow Brook	0.020-0.120	0.015-0.100
Wood Pond Brook	0.025-0.065	0.045-0.150
Woodbridge Lake Inlet	0.040-0.050	0.040-0.060