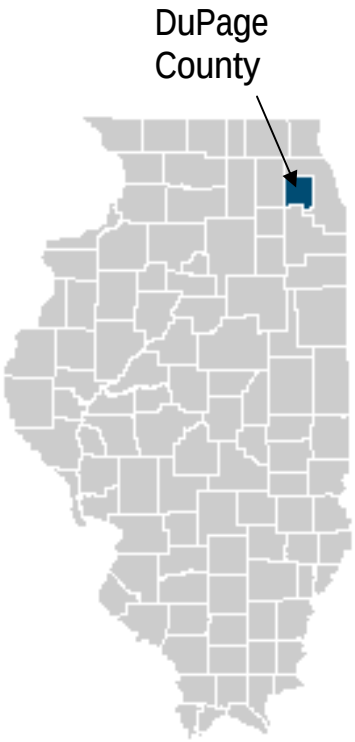
FLOOD INSURANCE STUDY

DU PAGE COUNTY, ILLINOIS
AND INCORPORATED AREAS

Volume 1 of 6

COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER
ADDISON, VILLAGE OF	170198	ITASCA, VILLAGE OF	170210
AURORA, CITY OF	170320	LEMONT, VILLAGE OF	170117
BARTLETT, VILLAGE OF	170059	LISLE, VILLAGE OF	170211
BATAVIA, CITY OF*	170321	LOMBARD, VILLAGE OF	170212
BENSENVILLE, VILLAGE OF	170200	NAPERVILLE, CITY OF	170213
BLOOMINGDALE, VILLAGE OF	170201	OAK BROOK, VILLAGE OF	170214
BOLINGBROOK, VILLAGE OF	170812	OAKBROOK TERRACE, CITY OF	170215
BURR RIDGE, VILLAGE OF	170071	ROSELLE, VILLAGE OF	170216
CAROL STREAM, VILLAGE OF	170202	SCHAUMBURG, VILLAGE OF	170158
CHICAGO, CITY OF	170074	ST. CHARLES, CITY OF*	170330
CLARENDON HILLS, VILLAGE OF	170203	VILLA PARK, VILLAGE OF	170217
DARIEN, CITY OF	170750	WARRENVILLE, CITY OF	170218
DOWNERS GROVE, VILLAGE OF	170204	WAYNE, VILLAGE OF	170865
DU PAGE COUNTY (UNINCORPORATED AREAS)	170197	WEST CHICAGO, CITY OF	170219
ELK GROVE VILLAGE, VILLAGE OF	170088	WESTMONT, VILLAGE OF	170220
ELMHURST, CITY OF	170205	WHEATON, CITY OF	170221
GLENDALE HEIGHTS, VILLAGE OF	170206	WILLOWBROOK, VILLAGE OF	170222
GLEN ELLYN, VILLAGE OF	170207	WINFIELD, VILLAGE OF	170223
HANOVER PARK, VILLAGE OF	170099	WOOD DALE, CITY OF	170224
HINSDALE, VILLAGE OF	170105	WOODRIDGE, VILLAGE OF	170737

*NO SPECIAL FLOOD HAZARD AREAS IDENTIFIED IN DU PAGE COUNTY



PRELIMINARY: JUNE 3, 2015

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER

17043CV001B

NOTICE TO
FLOOD INSURANCE STUDY USERS

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

The Federal Emergency Management Agency (FEMA) may revise and republish part or all of this FIS report at any time. In addition, FEMA may revise part of this FIS by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS. It is, therefore, the responsibility of the user to consult with community officials and to check the Community Map Repository to obtain the most current FIS components.

Initial Countywide FIS Effective Date: December 16, 2004

Revised Countywide FIS Effective Date(s): To be determined

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FLOOD INSURANCE STUDY
DU PAGE, ILLINOIS AND INCORPORATED AREAS

1.0 INTRODUCTION

1.1 Purpose of Study

This Flood Insurance Study (FIS) revises and supersedes the FIS reports and/or Flood Insurance Rate Maps (FIRMs) and/or Flood Hazard Boundary Maps (FHBMs) in the geographic area of DuPage County, Illinois, including: the cities of Aurora, Batavia, Chicago, Darien, Elmhurst, Naperville, Oakbrook Terrace, St. Charles, Warrenville, West Chicago, Wheaton, and Wood Dale; the villages of Addison, Bartlett, Bensenville, Bloomingdale, Bolingbrook, Burr Ridge, Carol Stream, Clarendon Hills, Downers Grove, Elk Grove Village, Glendale Heights, Glen Ellyn, Hanover Park, Hinsdale, Itasca, Lemont, Lisle, Lombard, Oak Brook, Roselle, Schaumburg, Villa Park, Wayne, Westmont, Willowbrook, Winfield, and Woodridge and the unincorporated areas of DuPage County (hereinafter referred to collectively as DuPage County) and aids in the administration of the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973. This study has developed flood risk data for various areas of the county that will be used to establish actuarial flood insurance rates. This information will also be used by DuPage County to update existing floodplain regulations as part of the Regular Phase of the National Flood Insurance Program (NFIP), and by local and regional planners to further promote sound land use and floodplain development. Minimum floodplain management requirements for participation in the NFIP are set forth in the Code of Federal Regulations at 44 C.F.R § 60.3.

For this countywide FIS and FIRM, flood hazard information is shown only for the portions of the communities listed in Table 1 that lie within DuPage County. The remaining portions of these communities lie within other counties as indicated. Please see separately published FIS reports and FIRMs for the portions of the communities that do not lie in DuPage County.

Table 1 - Multi-County Communities

Community	Adjacent Counties
Aurora, City of	Kane, Kendall, Will
Bartlett, Village of	Cook, Kane
Batavia, City of	Kane
Bensenville, Village of	Cook
Bolingbrook, Village of	Will
Burr Ridge, Village of	Cook
Chicago, City of	Cook

Table 1 - Multi-County Communities (continued)

Community	Adjacent Counties
Elk Grove Village, Village of	Cook
Elmhurst, City of	Cook
Hanover Park, Village of	Cook
Hinsdale, Village of	Cook
Lemont, Village of	Cook, Will
Naperville, City of	Will
Oak Brook, Village of	Cook
Roselle, Village of	Cook
Schaumburg, Village of	Cook
St. Charles, City of	Kane
Wayne, Village of	Kane
Woodridge, Village of	Will, Cook

Note that the multi-county communities of Batavia and St. Charles have no special flood hazard areas (SFHAs) identified within DuPage County. SFHAs have been identified for these communities in the adjacent counties, which are indicated in Table 1.

In some states or communities floodplain management criteria or regulations may exist that are more restrictive or comprehensive than the minimum Federal requirements. In such cases, the more restrictive criteria take precedence and the State (or other jurisdictional agency) will be able to explain them.

1.2 Authority and Acknowledgements

The sources of authority for this FIS are the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973.

The FIS includes the unincorporated areas of, and incorporated communities within, DuPage County. Information on the authority and acknowledgments for each jurisdiction included in this FIS, as compiled from their previously printed FIS reports, is shown below.

Information is not included for communities with no previously printed pre-countywide FIS reports or those with an FIS report that has been superseded in its entirety.

Pre-Countywide FISs

City of Aurora:

The hydrologic and hydraulic analyses for the revised FIS report dated March 3, 1997 (Reference 1), were prepared by the Soil Conservation Service (SCS) and the IDOT, Division of Water Resources (IDOT-DWR, now the Illinois Department of Natural Resources, Office of Water Resources [IDNR-OWR]). This work was completed in June 1989.

Village of Bartlett:

The hydrologic and hydraulic analyses for the FIS dated December 15, 1980 (Reference 2) were prepared for the Federal Insurance Administration (FIA), under Inter-Agency Agreement No. IAA-H-7-76, Project Order No. 19. This work was completed in June 1977.

Village of Bensenville:

Except for Addison Creek, a portion of Addison Creek Tributary No. 3, and Bensenville Ditch, the hydrologic and hydraulic analyses for the FIS dated August 1980 (Reference 3) were performed by the U.S. Army Corps of Engineers (USACE), Chicago District, for FEMA, under Inter-Agency Agreement No. EMW-85-E-1822, Project Order No. 1. This study was completed in May 1987.

The hydrologic and hydraulic analyses for Addison Creek were taken from a stormwater management system evaluation report performed by Donohue & Associates, Inc., for the IDOT-DOWR (Reference 4) .

Revised analysis of Bensenville Ditch was performed by the IDOT-DOWR (Reference 5) and a revised analysis of Addison Creek Tributary No. 3 from upstream of Tributary A to the western corporate limits was performed by Seton Engineering Company Inc. for the revised FIS dated March 2, 1993 (Reference 6).

Village of Burr Ridge:	The hydrologic and hydraulic analyses for the original FIS were performed by Harza Engineering Company for the FIA, under Contract No. H-3978. That work was completed in August 1978. The revised analyses for the FIS report dated August 2, 1990 (Reference 7) were performed by the USACE, Chicago District, and reviewed and accepted by FEMA.
Village of Carol Stream:	The hydrologic and hydraulic analyses for the FIS report dated July 6, 1981 (Reference 8) were performed by the USACE, Chicago District, for the FIA, under Inter-Agency Agreement No. IAA-H-16-75, Project Order No. 19 and Inter-Agency Agreement No. IAA-H-7-76, Project Order No. 1. That study was completed in April 1977, and was partially revised in January 1981.
Village of Clarendon Hill:	The hydrologic and hydraulic analyses for the FIS report dated January 1980 (Reference 9) were performed by Harza Engineering Company for the FIA, under Contract No. H-4562. That study was completed in January 1979.
DuPage County (Unincorporated Areas):	The hydrologic and hydraulic analyses for the FIS report dated December 4, 1985 (Reference 10) were performed by the USACE, Chicago District, for FEMA under Inter-Agency Agreement No. IAA-H-7-76, Project Order No. 19. This study was completed in April 1979.
Village of Hinsdale:	The hydrologic and hydraulic analyses for the FIS dated July 16, 1980 (Reference 11) were performed by Harza Engineering Company for the FIA, under Contract No. H-4562. This study was completed in February 1979.
Village of Lisle:	The hydrologic and hydraulic analyses for the FIS report dated March 1980 (Reference 12) were performed by the USACE,

	Chicago District, for the FIA, under Inter-Agency Agreement Nos. IAA-H-16-75, Project Order No. 21; IAA-H-7-76, Project Order No. 1; and IAA-H-7-76, Amendment No. 3 to Project Order No. 1. That work was completed in September 1977.
City of Naperville:	The hydrologic and hydraulic analyses for the FIS report dated May 18, 1992 (Reference 13) were prepared by the Chicago District of the USACE for the FIA under Inter-Agency Agreement Nos. IAA-H-16-75, Project Order No. 21 and IAA-H-7-76, Project Order No. 1.
City of Warrenville:	The hydrologic and hydraulic analyses for the FIS report dated March 1978 (Reference 14) were performed by the USACE, Chicago District, for the FIA, under Inter-Agency Agreement No. IAA-H-7-76, Project Order No. 19, and Amendment No. 2 to Project Order No. 19. This work was completed in May 1977.
Village of Wayne:	The hydrologic and hydraulic analyses for the FIS report dated June 1, 1981 (Reference 15) were performed by the USACE, Chicago District, for the FIA, under Inter-Agency Agreement No. IAA-H-18-78, Project Order No. 13. That work was completed in February 1980.
City of West Chicago:	The hydrologic and hydraulic analyses for the FIS report dated August 19, 1987 (Reference 16) were performed by the USACE, Chicago District, USACE, for the FIA, under Inter-Agency Agreement No. IAA-H-7-76, Project Order No. 19, and Amendment No. 2 to this same agreement.
Village of Willowbrook:	The hydrologic and hydraulic analyses for the FIS report dated July 1979 (Reference 17) were performed by Harza Engineering Company for the FIA, under Contract No. H-3978. This work was completed in April 1978.

Village of Winfield: The hydrologic and hydraulic analyses for the FIS report dated August 1978 (Reference 18) were prepared by the USACE, Chicago District, for the FIA, under Inter-Agency Agreement No. IAA-H-7-76, Project Order No. 19. This work was completed in February 1977.

December 16, 2004
Initial Countywide FIS

For the initial countywide FIS (Reference 19), new hydrologic and hydraulic analyses were performed for East Branch DuPage River Tributary No. 2 (EBE2) and Ginger Creek (SCGC) through a cooperative partnership between DuPage County and FEMA. These analyses have been superseded by more recent study.

To be determined
For this Revision

The new hydrologic analyses included in this revised countywide FIS for all sub-watersheds listed in Table 2 were performed by DuPage County Stormwater Management Division (DPC-SMD) under the Cooperating Technical Partners (CTP) Partnership Agreement No. EMC-2008-CA-7021 between DuPage County and FEMA, per the Mapping Activity Statement (MAS) No. DPC08-01. The DPC-SMD has been working with the Northeastern Illinois Planning Commission (NIPC) to perform the regional hydrologic analysis for various watersheds since early 1980.

Information regarding the hydraulic and statistical analyses for the new watershed studies is shown in Table 2.

Table 2 – Watershed Study Acknowledgments

Watershed Study	Hydraulic and Statistical Analyses Performed By:	Report Publication Date
Armitage Creek (EBAR) Lacey Creek (EBLA) Willoway Brook (EBWI)	LandC, etc., LLC	January 31, 2013
Army Trail Road Tributary (EBAT) Swift Meadows (EBSM)	CEMCON, Ltd.	March 30, 2012
Crabtree Creek (EBCR)	Engineering Resource Associates, Inc.	April 2012
East Branch Tributary No. 2 (EBE2)	Camp Dresser & McKee Inc.	October 2011
East Branch DuPage River (EBEB)	MWH Americas, Inc.	July 2013
Glen Crest Creek (EBGL)	Hey and Associates, Inc.	September 27, 2011
Prentiss Creek (EBPR)	LandC, etc., LLC	April 6, 2012

Table 2 – Watershed Study Acknowledgments (continued)

Watershed Study	Hydraulic and Statistical Analyses Performed By:	Report Publication Date
Rott Creek (EBRC)	LandC, etc., LLC	December 14, 2012
St. Joseph Creek (EBSJ)	Nika Engineering	June 2012
Bronswood Tributary (SCBW)	Hey and Associates, Inc.	June 13, 2012
Devon Avenue Tributary (SCDA)	MWH Americas, Inc.	January 2012
Ginger Creek (SCGC)	LandC, etc., LLC	January 31, 2013
Oak Brook Tributary (SCOB)	DuPage County Department of Development and Environmental Concerns	January 2012
Spring Brook Creek (SCSB)	CDM Smith	September 2012
Salt Creek (SCSC)	Christopher B. Burke Engineering, Ltd.	November 2011
Sugar Creek (SCSU)	Camp Dresser & McKee Inc.	November 2011
Westwood Creek (SCWC)	Christopher B. Burke Engineering, Ltd.	August 2011
Sawmill Creek (SWSW)	Nika Engineering	October 2010
Wards Creek (SWWD)	MWH Americas, Inc.	January 2012
Springbrook No. 1 (WBSP)	CDM Smith	March 2012

Base map information was provided by DuPage County, Illinois. Color digital orthophotos with a 6-inch pixel resolution were compiled from aerial photography acquired in the spring of 2006 (Reference 20).

The coordinate system used for the production of the digital FIRMs is Universal Transverse Mercator (UTM) North American Datum of 1983 (NAD 83) Geodetic Reference System 1980 (GRS80) spheroid.

This revised countywide FIS was performed under the Cooperating Technical Partners (CTP) Partnership Agreement Nos. EMC-2008-CA-7022 and EMC-2013-CA-7007 between the Illinois State Water Survey (ISWS) and FEMA, per the Mapping Activity Statement (MAS) Nos. ISWS08-01 and ISWS13-08.

1.3 Coordination

Coordination and outreach activities were performed to create a climate of understanding and ownership of the mapping process at the state and local levels. These activities were ongoing throughout the entirety of the project.

The purpose of an initial consultation coordination officer (CCO) meeting, or project team meeting, is to discuss the scope of the project. An intermediate CCO meeting, or scoping meeting, is meant to continue outreach and create a climate of understanding throughout the process. A final CCO meeting, or open house, is held with public officials and the general public to review the results of the study.

Pre-Countywide FISs

The purpose of an initial consultation coordination officer (CCO) meeting, or project team meeting, is to discuss the scope of the project. An intermediate CCO meeting, or scoping meeting, is meant to continue outreach and create a climate of understanding throughout the process. A final CCO meeting, or open house, is held with public officials and the general public to review the results of the study. The dates of the initial and final CCO meetings held for previous studies for DuPage County's incorporated communities are shown in Table 3, "CCO Meeting Dates for Pre-Countywide Studies."

Table 3 - CCO Meeting Dates for Pre-Countywide Studies

Community	Initial CCO Date	Final CCO Date
Village of Addison	*	November 10, 1976
Village of Bloomingdale	July 19, 1977	May 28, 1980
Village of Carol Stream	January 1975	January 19, 1981
Village of Clarendon Hills	July 1977	August 16, 1979
City of Darien	*	January 29, 1979
Village of Downers Grove	January 1975	June 30, 1977
City of Elmhurst	August 4, 1980	January 8, 1980
Village of Glen Ellyn	December 1975	*
Village of Itasca	January 1975	October 26, 1976
Village of Lemont	*	August 11, 1987
Village of Lisle	December 1974	June 2, 1977
Village of Lombard	December 1975	September 12, 1977
Village of Oak Brook	August 1976	January 10, 1980
City of Oakbrook Terrace	March 30, 1977	January 30, 1980
Village of Villa Park	August 1976	January 21, 1980
City of Warrenville	*	*
City of West Chicago	January 21, 1976	September 15, 1977
Village of Westmont	July 1977	October 29, 1979
Village of Willowbrook	*	January 10, 1979
Village of Winfield	January 5, 1976	June 21, 1977
Village of Woodridge	*	July 22, 1976

*Data not available

December 16, 2004
Initial Countywide FIS

Final meetings were held on June 4 and 5, 2003, and were attended by representatives of the following: DuPage County; the cities of Aurora, Elmhurst, Naperville, Oakbrook Terrace, Warrenville, West Chicago, Wheaton, and Wood Dale; the villages of Addison, Bartlett, Bensenville, Carol Stream, Clarendon Hills, Downers Grove, Glen Ellyn, Glendale Heights, Hinsdale, Itasca, Lisle, Lombard, Oak Brook, Roselle, Willowbrook; the Region and the State of Illinois.

To be determined
Revised Countywide FIS

The initial CCO meeting was held on August 30, 2007 in Wheaton, Illinois and was attended by representatives of DuPage County, ISWS, IDNR, and FEMA. A follow-up to the initial CCO meeting was held in Champaign, Illinois on October 26, 2007 for further discussion between the DuPage County GIS department and the IDNR/ISWS staff. An intermediate CCO meeting was held on March 5, 2008 in Wheaton, Illinois, and was attended by representatives from DuPage County, ISWS, IDNR, and FEMA.

In addition, discovery meetings were held on March 27-28, 2013 in Wheaton, Illinois. The meeting was attended by representatives of DuPage County; the cities of Aurora, Chicago, Darien, Elmhurst, Naperville, Oakbrook Terrace, St. Charles, Warrenville, West Chicago, Wheaton, and Wood Dale; the villages of Addison, Bartlett, Bensenville, Bloomingdale, Clarendon Hills, Downers Grove, Elk Grove Village, Glen Ellyn, Glendale Heights, Hanover Park, Itasca, Lisle, Lombard, Oak Brook, Schaumburg, Villa Park, Wayne, Willowbrook, and Woodridge; ISWS, and IDNR.

The results of the study were reviewed at the final CCO meeting held on _____, in _____, Illinois, and attended by representatives of _____. All problems raised at that meeting have been addressed in this study.

2.0 AREA STUDIED

2.1 Scope of Study

This FIS covers the geographic area of DuPage County including the incorporated areas listed in Section 1.1. Typically, areas studied by Zone AE methods are selected with priority given to all known flood hazards and areas of projected development or proposed construction.

Table 4, "Stream Name Changes" lists streams that have names in this FIS other than those used in previously printed FISs.

Table 4 - Stream Name Changes

Community	Watershed	Old Name	New Name
Village of Bensenville	DPAC	Unnamed Zone A	Addison Creek Tributary No. 4
DuPage County*	DPDP	Sawmill Creek Tributary No. 3	Des Plaines River Reach No. 7
Village of Glendale Heights	EBAR	Armitage Ditch	Armitage Creek
City of Warrenville	EBAR	Armitage Fork	Armitage Fork Tributary
Village of Lisle	EBEB	East Branch Tributary No. 3	East Branch Reach No. 14
Village of Addison	EBGL	East Branch Tributary No. 4	Glen Crest Creek
Village of Downers Grove	EBSJ	North Branch St. Joseph Creek	Northeast Tributary
DuPage County*	EBSJ	St. Joseph Creek Tributary	Southeast Tributary
DuPage County*	EBSJ	South Branch St. Joseph Creek	Southwest Tributary
Village of Lisle	EBSJ	Tributary 1(A)	St. Joseph Creek Reach No. 2
DuPage County*	EBSJ	Tributary 2(B)	St. Joseph Creek Reach No. 3
Village of Lombard	EBTS	Unnamed Stream (North of 22nd Street)	22nd Street Tributary
Village of Bartlett	EBWI	East Branch Tributary No. 5	Willoway Brook
Village of Oakbrook	SCBW	Bronswood Cemetery Tributary	Bronswood Tributary
City of Oakbrook Terrace	SCGC	Briarwood Ditch	Briarwood Ditch Tributary
City of Oakbrook Terrace; DuPage County *	SCOB	Spring Road Tributary	Oak Brook Tributary
Village of Bloomingdale; Village of Roselle; DuPage County*	SCSB	West Branch Tributary to Spring Brook Creek	Spring Brook Tributary No. 1
Village of Villa Grove	SCSU	Sugar Creek Tributary A	Sugar Creek Tributary No. 2

*Unincorporated areas

Table 4 - Stream Name Changes (continued)

Community	Watershed	Old Name	New Name
Village of Addison	SCWC	Salt Creek's Westwood Creek Reach #3	Community Pond Tributary
Village of Addison	SCWC	South Fork Westwood Creek	Westwood Creek
DuPage County*	SCWC	Salt Creek's Westwood Creek Reach #6	Westwood Creek Reach No. 6
Village of Willowbrook	SWSW	East Branch Sawmill Creek	Sawmill Creek
City of West Chicago	SWSW	West Branch Sawmill Creek	Sawmill Creek Reach No. 8
City of Warrenville	WBFE	Unnamed Zone A	Unnamed Tributary to Ferry Creek
City of Naperville	WBFX	Unnamed Creek (South of 87th Street)	South Of Foxcroft Road Tributary
City of Naperville	WBFX	Unnamed Creek (South of Foxcroft Road)	South Of Foxcroft Road Tributary Reach No. 2
DuPage County*	WBKR	Unnamed Tributary to Kress Creek	Kress Creek Reach No. 2
DuPage County*	WBSR	West Branch DuPage River's Steeple Run Tributary Reach #3	Steeple Run Tributary Reach No. 3
Village of Bartlett	WBW2	Country Creek	West Branch Tributary No. 2
DuPage County*	WBWB	West Branch Tributary No. 5	West Branch Tributary No. 18

*Unincorporated areas

The streams, or portions of streams, listed in Table 5, "Limits of New or Revised Zone AE Study," have new or revised hydrologic and hydraulic analyses for this countywide FIS.

Table 5 - Limits of New or Revised Zone AE Study

Flooding Source	Limits of Zone AE Study
East Branch DuPage River Watershed (EB)	
Armitage Creek (EBAR)	From the confluence with East Branch DuPage River to approximately 11,600 feet above the confluence with East Branch DuPage River (approximately 50 feet upstream of Paul Avenue)
Armitage Fork Tributary (EBAR)	From the confluence with Armitage Creek to approximately 4,420 feet above the confluence with Armitage Creek (just downstream of Mildred Avenue)
Army Trail Road Tributary (EBAT)	From the confluence with East Branch DuPage River to approximately 3,650 feet above the confluence with East Branch DuPage River (just upstream of Army Trail Road)
Crabtree Creek (EBCR)	From the confluence with East Branch DuPage River to approximately 8,225 feet above the confluence with East Branch DuPage River (approximately at Janes Avenue)

Table 5 - Limits of New or Revised Zone AE Study (continued)

□looding Source	Limits of Zone AE Study
East Branch DuPage River Watershed (EB)	
East Branch DuPage River Tributary No. 2 (EBE2)	From the confluence with East Branch DuPage River to approximately 7,950 feet above the confluence with East Branch DuPage River (approximately 400 feet upstream of Shopping Plaza upstream of North Avenue)
Southwest Tributary (EBE2)	From the confluence with East Branch Tributary No. 2 to approximately 4,100 feet above the confluence with East Branch Tributary No. 2 (approximately 450 feet upstream of Prairie Avenue)
East Branch DuPage River (EBEB)	From approximately 34,000 feet above the confluence with DuPage River (approximately 8,400 feet downstream of 75th Street) to approximately 128,550 feet above the confluence with DuPage River (approximately 2,950 feet upstream of Glen Ellyn Road)
Glen Crest Creek (EBGL)	From the confluence with East Branch DuPage River to approximately 8,275 feet above the confluence with East Branch DuPage River (approximately 2,600 feet upstream of Sheffield Road)
Lacey Creek (EBLA)	From the confluence with East Branch DuPage River to approximately 18,550 feet above the confluence with East Branch DuPage River (approximately 400 feet upstream of Midwestern University East Road)
Tributary A (EBLA)	From the confluence with Lacey Creek to approximately 2,300 feet above the confluence with Lacey Creek (just upstream of 37th Street)
Tributary B (EBLA)	From the confluence with Lacey Creek to approximately 540 feet above the confluence with Lacey Creek
Tributary C (EBLA)	From the confluence with Lacey Creek to approximately 2,680 feet above the confluence with Lacey Creek (just upstream of 31rd Street)
Prentiss Creek (EBPR)	From the confluence with East Branch DuPage River to approximately 23,250 feet above the confluence with East Branch DuPage River (approximately 350 feet upstream of Dunham Road)
Prentiss Creek Reach No. 4 (EBPR)	From the confluence with Prentiss Creek to approximately 2,950 feet above the confluence with Prentiss Creek (approximately 400 feet upstream of 59th Street)
Prentiss Creek Reach No. 7 (EBPR)	From the confluence with Prentiss Creek to approximately 1,775 feet above the confluence with Prentiss Creek (approximately 175 feet upstream of Wells Street)
Rott Creek (EBRC)	From the confluence with East Branch DuPage River to approximately 19,725 feet above the confluence with East Branch DuPage River (just downstream of Naperville Road)
Northeast Tributary (EBSJ)	From the confluence with St. Joseph Creek to approximately 4,300 feet above the confluence with St. Joseph Creek (just downstream of Cumnor Road)

Table 5 - Limits of New or Revised Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
East Branch DuPage River Watershed (EB) – continued	
Southeast Tributary (EBSJ)	From the confluence with St. Joseph Creek to approximately 1,920 feet above the confluence with St. Joseph Creek (approximately 320 feet upstream of 60th Street)
Southwest Tributary (EBSJ)	From the confluence with St. Joseph Creek to approximately 7,620 feet above the confluence with St. Joseph Creek (approximately 560 feet upstream of Middaugh Avenue)
St. Joseph Creek (EBSJ)	From the confluence with East Branch DuPage River to approximately 41,450 feet above the confluence with East Branch DuPage River (approximately 500 feet upstream of Williams Street)
St. Joseph Creek Reach No. 2 (EBSJ)	From the confluence with St. Joseph Creek to approximately 3,920 feet above the confluence with St. Joseph Creek (approximately 1,300 feet upstream of Warrenville Road)
St. Joseph Creek Reach No. 11 (EBSJ)	From the confluence with St. Joseph Creek to approximately 1,250 feet above the confluence with St. Joseph Creek (approximately 840 feet upstream of Gilbert Avenue)
Swift Meadows (EBSM)	From the confluence with East Branch DuPage River to approximately 7,250 feet above the confluence with East Branch DuPage River
Swift Meadows Reach No. 2 (EBSM)	From the confluence with Swift Meadows to approximately 3,100 feet above the confluence with Swift Meadows (approximately 1,250 feet upstream of Byron Avenue)
Swift Meadows Reach No. 4 (EBSM)	From the confluence with Swift Meadows to approximately 1,240 feet above the confluence with Swift Meadows
Willoway Brook (EBWI)	From the confluence with East Branch DuPage River to approximately 15,775 feet above the confluence with East Branch DuPage River (approximately 1,600 feet upstream of Butterfield Road)
Willoway Brook Reach No. 2 (EBWI)	From the confluence with Willoway Brook to approximately 3,909 feet above the confluence with Willoway Brook (approximately 350 feet upstream of Northern Access Road)
Willoway Brook Reach No. 4 (EBWI)	From the confluence with Willoway Brook to approximately 1,220 feet above the confluence with Willoway Brook
Salt Creek Watershed (SC)	
Brittwood Creek Tributary (SCBW)	From the confluence with North Branch to approximately 240 feet above the confluence with North Branch
Bronswood Tributary (SCBW)	From the confluence with Salt Creek to approximately 9,000 feet above the confluence with Salt Creek (approximately 100 feet upstream of Illinois Route 83 West Ramp)

Table 5 - Limits of New or Revised Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
Salt Creek Watershed (SC) – continued	
North Branch (SCBW)	From the confluence with Bronswood Tributary to approximately 9,350 feet above the confluence with Bronswood Tributary (approximately 400 feet upstream of Pasquinelli Drive)
South Branch (SCBW)	From the confluence with Bronswood Tributary to approximately 650 feet above the confluence with Bronswood Tributary (approximately 50 feet upstream of Ogden Avenue)
Devon Avenue Tributary (SCDA)	From the confluence with Salt Creek to approximately 9,250 feet above the confluence with Salt Creek (just downstream of Interstate 290)
South Branch - Tributary No. 3 (SCDA)	From the confluence with Devon Avenue Tributary to approximately 2,750 feet above the confluence with Devon Avenue Tributary (just downstream of Willow Street)
Briarwood Ditch Tributary (SCGC)	From the confluence with Ginger Creek to approximately 2,500 feet above the confluence with Ginger Creek (approximately at Interstate 88)
Ginger Creek (SCGC)	From the confluence with Salt Creek to approximately 18,800 feet above the confluence with Salt Creek (approximately at Oakbrook Road)
Ginger Creek Reach No. 8 (SCGC)	From the confluence with Lombard Tributary to approximately 700 feet above the confluence with Lombard Tributary (approximately at Meyers Road)
Heritage Oaks Tributary (SCGC)	From the confluence with Ginger Creek to approximately 2,900 feet above the confluence with Ginger Creek (approximately 700 feet above White Oak Lane)
Lombard Tributary (SCGC)	From the confluence with Ginger Creek to approximately 5,400 feet above the confluence with Ginger Creek (approximately 800 feet upstream of Fountain Square Access Road)
Mays Lake Tributary (SCGC)	From the confluence with Ginger Creek to approximately 4,075 feet above the confluence with Ginger Creek (approximately 1,500 feet upstream of 31st Street)
McDonald Tributary (SCGC)	From the confluence with Ginger Creek to approximately 780 feet above the confluence with Ginger Creek (approximately at Ray Kroc Drive)
Midwest Club Tributary (SCGC)	From the confluence with Ginger Creek to approximately 2,650 feet above the confluence with Ginger Creek (approximately 350 feet upstream of 31st Street)
Oak Brook Tributary (SCOB)	From the confluence with Salt Creek to approximately 14,200 feet above the confluence with Salt Creek (approximately 1,350 feet upstream of Renaissance Boulevard)
Meacham Creek (SCSB)	From the confluence with Spring Brook Creek to approximately 12,800 feet above the confluence with Spring Brook Creek (approximately 1,650 feet upstream of Medinah Road)

Table 5 - Limits of New or Revised Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
Salt Creek Watershed (SC) – continued	
Meacham Creek Tributary No. 1 (SCSB)	From the confluence with Meacham Creek to approximately 5,000 feet above the confluence with Meacham Creek (approximately 250 feet upstream of Granville Avenue)
Spring Brook Creek (SCSB)	From the confluence with Salt Creek to approximately 46,350 feet above the confluence with Salt Creek (approximately 850 feet upstream of Irving Park Road; Cook-DuPage County boundary)
Spring Brook Tributary No. 1 (SCSB)	From the confluence with Spring Brook Creek to approximately 6,450 feet above the confluence with Spring Brook Creek (approximately 2,100 feet upstream of Lake Street)
Salt Creek (SCSC)	From approximately 49,300 feet above the confluence with Des Plaines River (approximately at Interstate 294) to approximately 146,100 feet above the confluence with Des Plaines River (approximately at Devon Avenue; Cook-DuPage County boundary)
Sugar Creek (SCSU)	From the confluence with Salt Creek to approximately 20,450 feet above the confluence with Salt Creek (approximately 1,250 feet upstream of Grace Street)
Sugar Creek Tributary No. 2 (SCSU)	From the confluence with Sugar Creek to approximately 1,700 feet above the confluence with Sugar Creek (approximately 200 feet upstream of Roosevelt Road)
Sugar Creek Tributary No. 3 (SCSU)	From the confluence with Sugar Creek to approximately 3,350 feet above the confluence with Sugar Creek (at Montini Park Road)
Sugar Creek Tributary No. 4 (SCSU)	From the confluence with Sugar Creek to approximately 1,220 feet above the confluence with Sugar Creek
Community Pond Tributary (SCWC)	From the confluence with Westwood Creek to approximately 6,500 feet above the confluence with Westwood Creek (approximately 650 feet upstream of Access Road)
Westwood Creek (SCWC)	From the confluence with Salt Creek to approximately 21,750 feet above the confluence with Salt Creek (just upstream of North Avenue)
Westwood Creek Reach No. 6 (SCWC)	From the confluence with Community Pond Tributary to approximately 2,200 feet above the confluence with Community Pond Tributary (approximately 950 feet upstream of 9th Avenue)
Sawmill Creek Watershed (SWSW)	
Argonne Tributary (SWSW)	From the confluence with Wards Creek to approximately 5,900 feet above the confluence with Wards Creek (approximately 250 feet upstream of Westgate Road)
Freund Brook (SWSW)	From the confluence with Sawmill Creek to approximately 13,300 feet above the confluence with Sawmill Creek (approximately at Westgate Road)

Table 5 - Limits of New or Revised Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
Sawmill Creek Watershed (SWSW) – continued	
Sawmill Creek (SWSW)	From the confluence with Des Plaines River to approximately 37,250 feet above the confluence with Des Plaines River (approximately at 67th Street)
Sawmill Creek Reach No. 3 (SWSW)	From the confluence with Sawmill Creek to approximately 9,500 feet above the confluence with Sawmill Creek (approximately at 75th Street)
Sawmill Creek Reach No. 4 (SWSW)	From the confluence with Sawmill Creek Reach No. 3 to approximately 4,200 feet above the confluence with Sawmill Creek Reach No. 3 (approximately at Cass Avenue)
Sawmill Creek Reach No. 8 (SWSW)	From the confluence with Wards Creek to approximately 8,180 feet above the confluence with Wards Creek (approximately 2,420 feet upstream of Lake View Drive)
Sawmill Creek Reach No. 10 (SWSW)	From the confluence with Sawmill Creek to approximately 3,150 feet above the confluence with Sawmill Creek (just upstream of Plainfield Road)
Wards Creek (SWSW)	From the confluence with Sawmill Creek to approximately 7,400 feet above the confluence with Sawmill Creek (approximately at Interstate 55)
Wards Creek (SWWD)	From Interstate 55 to approximately 16,680 feet above Interstate 55 (approximately 1,950 feet upstream of Lemont Road)
Wards Creek Reach No. 2 (SWWD)	From the confluence with Wards Creek to approximately 3,200 feet above the confluence with Wards Creek (approximately at Manning Road)
West Branch DuPage River (WBWB)	
Spring Brook No. 1 (WBSP)	From the confluence with West Branch DuPage River to approximately 30,500 feet above the confluence with West Branch DuPage River (approximately 2,600 feet upstream of Hawthorn Street)
Steeple Run Tributary (WBSR)	From the confluence with West Branch DuPage River to approximately 11,550 feet above the confluence with West Branch DuPage River (approximately 900 feet upstream of Springhill Circle East)
Steeple Run Tributary Reach No. 3 (WBSR)	From the confluence with Steeple Run Tributary to approximately 2,900 feet above the confluence with Steeple Run Tributary

The streams, or portions of streams, listed in Table 6, "Limits of Zone AE Study," were studied in detail and included in this report. Limits of Zone AE study are also indicated on the Flood Profiles (Exhibit 1) and on the FIRM (Exhibit 2).

Table 6 - Limits Zone AE Study

Flooding Source	Limits of Zone AE Study
Des Plaines River Watershed (DP)	
Addison Creek (DPAC)	From approximately 61,150 feet above the confluence with Des Plaines River (approximately at Countyline Road) to approximately 67,750 feet above the confluence with Des Plaines River (approximately 125 feet upstream of George Street)
Addison Creek Tributary No. 1 (DPAC)	From the confluence with William Redmond Reservoir to approximately 2,100 feet above the confluence with William Redmond Reservoir (approximately 1,325 feet upstream of Jefferson Street)
Addison Creek Tributary No. 2 (DPAC)	From the confluence with William Redmond Reservoir to approximately 7,300 feet above the confluence with William Redmond Reservoir (just upstream of Church Road)
Addison Creek Tributary No. 3 (DPAC)	From the confluence with Addison Creek Tributary No. 2 to approximately 8,500 feet above the confluence with Addison Creek Tributary No. 2 (approximately at Arthur Court)
Addison Creek Tributary No. 4 (DPAC)[1]	From the confluence with Addison Creek to approximately 4,650 feet above the confluence with Addison Creek (approximately 750 feet upstream of Wilson Street)
Bensenville Ditch (DPBD)	From approximately 44,000 feet above confluence with Des Plaines River (approximately 500 feet downstream of Orchard Avenue) to approximately 49,050 feet above confluence with Des Plaines River (approximately 600 feet above Church Road)
Des Plaines River (DPDP)	From approximately 151,650 feet above confluence with Illinois River (at DuPage-Cook County boundary) to approximately 176,100 feet above confluence with Illinois River (at DuPage-Cook County boundary)
Des Plaines River Reach No. 7 (DPDP)	From the confluence with Des Plaines River to approximately 13,540 feet above the confluence with Des Plaines River (approximately 60 feet upstream of 91st Street)
59th Street Ditch (DPFC)	From approximately 37,200 feet above the confluence with Des Plaines River (just upstream of County Line Road) to approximately 38,925 feet above the confluence with Des Plaines River (approximately 125 feet upstream of Charleston Road South)
63rd Street Ditch (DPFC)	From approximately 3,800 feet above the confluence with Flagg Creek (approximately 800 feet downstream of Elm Street) to approximately 15,300 feet above the confluence with Flagg Creek (approximately at Lake Hinsdale Drive)
79th Street Ditch (DPFC)	From approximately 1,500 feet above the confluence with Flagg Creek Tributary C (at County Line Road) to approximately 5,350 feet above the confluence with Flagg Creek Tributary C (approximately 950 feet upstream of Hamilton Avenue)
Flagg Creek (DPFC)	From approximately 48,730 feet above the confluence with Des Plaines River (just upstream of State Route 83) to approximately 50,450 feet above the confluence with Des Plaines River (approximately 730 feet upstream of Harris Avenue)

[1] Stream studied in detail as part of LOMR 08-05-0519

Table 6 - Limits Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
Des Plaines River Watershed (DP) - continued	
Plainfield Road Ditch (DPFC)	From County Line Road (DuPage-Cook County boundary) to approximately 7,350 feet above County Line Road (approximately 2,850 feet upstream of Commerce Street)
North Unnamed Creek (DPWL)	From approximately 33,175 feet above the confluence with Des Plaines River to approximately 36,250 feet above the confluence with Des Plaines River
South Unnamed Creek (DPWL)	From approximately 33,315 feet above the confluence with Des Plaines River to approximately 39,815 feet above the confluence with Des Plaines River (approximately 800 feet upstream of Fairway Drive)
DuPage River Watershed (DU)	
Spring Brook No. 2 (DUSG)	From approximately 17,200 feet above the confluence with DuPage River (approximately at 87th Street) to approximately 48,575 feet above the confluence with DuPage River (approximately at Ogden Avenue)
East Branch DuPage River Watershed (EB)	
Armitage Creek (EBAR)	From the confluence with East Branch DuPage River to approximately 11,600 feet above the confluence with East Branch DuPage River (approximately 50 feet upstream of Paul Avenue)
Armitage Fork Tributary (EBAR)	From the confluence with Armitage Creek to approximately 4,420 feet above the confluence with Armitage Creek (just downstream of Mildred Avenue)
Army Trail Road Tributary (EBAT)	From the confluence with East Branch DuPage River to approximately 3,650 feet above the confluence with East Branch DuPage River (just upstream of Army Trail Road)
Crabtree Creek (EBCR)	From the confluence with East Branch DuPage River to approximately 8,225 feet above the confluence with East Branch DuPage River (approximately at Janes Avenue)
East Branch Tributary No. 1 (EBE1)	From the confluence with East Branch DuPage River to approximately 4,780 feet above the confluence with East Branch DuPage River (approximately 160 feet upstream of North Avenue)
East Branch Tributary No. 2 (EBE2)	From the confluence with East Branch DuPage River to approximately 7,950 feet above the confluence with East Branch DuPage River (approximately 400 feet upstream of Shopping Plaza upstream of North Avenue)
Southwest Tributary (EBE2)	From the confluence with East Branch Tributary No. 2 to approximately 4,100 feet above the confluence with East Branch Tributary No. 2 (approximately 450 feet upstream of Prairie Avenue)
St. Procopius Creek (EBE6)	From approximately 6,890 feet above confluence with East Branch DuPage River to approximately 10,320 feet above confluence with East Branch DuPage River (approximately at College Road)

Table 6 - Limits Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
East Branch DuPage River Watershed (EB) - continued	
East Branch DuPage River Tributary No. 7 (EBE7)	From the confluence with East Branch DuPage River to approximately 1.3 miles above the confluence with East Branch DuPage River (approximately 20 feet upstream of Palomino Drive)
East Branch DuPage River (EBEB)	From approximately 34,000 feet above the confluence with DuPage River (approximately 8,400 feet downstream of 75th Street) to approximately 128,550 feet above the confluence with DuPage River (approximately 2,950 feet upstream of Glen Ellyn Road)
East Branch DuPage River Reach No. 14 (EBEB)	From the confluence with East Branch DuPage River to approximately 3,260 feet above the confluence with East Branch DuPage River (approximately at Middleton Avenue)
Glen Crest Creek (EBGL)	From the confluence with East Branch DuPage River to approximately 8,275 feet above the confluence with East Branch DuPage River (approximately 2,600 feet upstream of Sheffield Road)
Lacey Creek (EBLA)	From the confluence with East Branch DuPage River to approximately 18,550 feet above the confluence with East Branch DuPage River (approximately 400 feet upstream of Midwestern University East Road)
Tributary A (EBLA)	From the confluence with Lacey Creek to approximately 2,300 feet above the confluence with Lacey Creek (just upstream of 37th Street)
Tributary B (EBLA)	From the confluence with Lacey Creek to approximately 540 feet above the confluence with Lacey Creek
Tributary C (EBLA)	From the confluence with Lacey Creek to approximately 2,680 feet above the confluence with Lacey Creek (just upstream of 31rd Street)
Prentiss Creek (EBPR)	From the confluence with East Branch DuPage River to approximately 23,250 feet above the confluence with East Branch DuPage River (approximately 350 feet upstream of Dunham Road)
Prentiss Creek Reach No. 4 (EBPR)	From the confluence with Prentiss Creek to approximately 2,950 feet above the confluence with Prentiss Creek (approximately 400 feet upstream of 59th Street)
Prentiss Creek Reach No. 7 (EBPR)	From the confluence with Prentiss Creek to approximately 1,775 feet above the confluence with Prentiss Creek (approximately 175 feet upstream of Wells Street)
Rott Creek (EBRC)	From the confluence with East Branch DuPage River to approximately 19,725 feet above the confluence with East Branch DuPage River (just downstream of Naperville Road)
Northeast Tributary (EBSJ)	From the confluence with St. Joseph Creek to approximately 4,300 feet above the confluence with St. Joseph Creek (just downstream of Cumnor Road)
Southeast Tributary (EBSJ)	From the confluence with St. Joseph Creek to approximately 1,920 feet above the confluence with St. Joseph Creek (approximately 320 feet upstream of 60th Street)

Table 6 - Limits Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
East Branch DuPage River Watershed (EB) - continued	
Southwest Tributary (EBSJ)	From the confluence with St. Joseph Creek to approximately 7,620 feet above the confluence with St. Joseph Creek (approximately 560 feet upstream of Middaugh Avenue)
St. Joseph Creek (EBSJ)	From the confluence with East Branch DuPage River to approximately 41,450 feet above the confluence with East Branch DuPage River (approximately 500 feet upstream of Williams Street)
St. Joseph Creek Reach No. 2 (EBSJ)	From the confluence with St. Joseph Creek to approximately 3,920 feet above the confluence with St. Joseph Creek (approximately 1,300 feet upstream of Warrenville Road)
St. Joseph Creek Reach No. 3 (EBSJ)	From the confluence with St Joseph Creek to approximately 2,430 feet above the confluence with St Joseph Creek (approximately 810 feet upstream of Interstate 355)
St. Joseph Creek Reach No. 11 (EBSJ)	From the confluence with St. Joseph Creek to approximately 1,250 feet above the confluence with St. Joseph Creek (approximately 840 feet upstream of Gilbert Avenue)
Swift Meadows (EBSM)	From the confluence with East Branch DuPage River to approximately 7,250 feet above the confluence with East Branch DuPage River
Swift Meadows Reach No. 2 (EBSM)	From the confluence with Swift Meadows to approximately 3,100 feet above the confluence with Swift Meadows (approximately 1,250 feet upstream of Byron Avenue)
Swift Meadows Reach No. 4 (EBSM)	From the confluence with Swift Meadows to approximately 1,240 feet above the confluence with Swift Meadows
22nd Street Tributary (EBTS)	From the confluence with East Branch DuPage River to approximately 5,675 feet above the confluence with East Branch DuPage River (approximately at Finley Road)
Willoway Brook (EBWI)	From the confluence with East Branch DuPage River to approximately 15,775 feet above the confluence with East Branch DuPage River (approximately 1,600 feet upstream of Butterfield Road)
Willoway Brook Reach No. 2 (EBWI)	From the confluence with Willoway Brook to approximately 3,909 feet above the confluence with Willoway Brook (approximately 350 feet upstream of Northern Access Road)
Willoway Brook Reach No. 4 (EBWI)	From the confluence with Willoway Brook to approximately 1,220 feet above the confluence with Willoway Brook
Fox River Watershed (FR)	
Brewster Creek (FRBC)	From approximately 21,650 feet above confluence with Fox River (approximately 1,800 feet downstream of Munger Road) to approximately 29,470 feet above the confluence with Fox River (approximately 135 feet upstream of State Route 59)

Table 6 - Limits Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
Fox River Watershed (FR) - continued	
Norton Creek (FRNC)	From approximately 18,750 feet above confluence with Fox River (approximately 500 feet downstream of Honey Hill Drive) to approximately 29,475 feet above the confluence with Fox River
Norton Creek Tributary (FRNC)	From approximately 500 feet above confluence with Norton Creek (approximately 400 feet downstream of Honey Hill Drive) to approximately 7,725 feet above the confluence with Norton Creek (approximately at Powis Road)
Waubansee Creek (FRWA)	From approximately 38,150 feet above confluence with Fox River (DuPage-Kane County boundary) to approximately 48,550 feet above the confluence with Fox River (just downstream of railroad)
Salt Creek Watershed (SC)	
Brittwood Creek Tributary (SCBW)	From the confluence with North Branch to approximately 240 feet above the confluence with North Branch
Bronswood Tributary (SCBW)	From the confluence with Salt Creek to approximately 9,000 feet above the confluence with Salt Creek (approximately 100 feet upstream of Illinois Route 83 West Ramp)
North Branch (SCBW)	From the confluence with Bronswood Tributary to approximately 9,350 feet above the confluence with Bronswood Tributary (approximately 400 feet upstream of Pasquinelli Drive)
South Branch (SCBW)	From the confluence with Bronswood Tributary to approximately 650 feet above the confluence with Bronswood Tributary (approximately 50 feet upstream of Ogden Avenue)
Devon Avenue Tributary (SCDA)	From the confluence with Salt Creek to approximately 9,250 feet above the confluence with Salt Creek (just downstream of Interstate 290)
South Branch - Tributary No. 3 (SCDA)	From the confluence with Devon Avenue Tributary to approximately 2,750 feet above the confluence with Devon Avenue Tributary (just downstream of Willow Street)
Briarwood Ditch Tributary (SCGC)	From the confluence with Ginger Creek to approximately 2,500 feet above the confluence with Ginger Creek (approximately at Interstate 88)
Ginger Creek (SCGC)	From the confluence with Salt Creek to approximately 18,800 feet above the confluence with Salt Creek (approximately at Oakbrook Road)
Ginger Creek Reach No. 8 (SCGC)	From the confluence with Lombard Tributary to approximately 700 feet above the confluence with Lombard Tributary (approximately at Meyers Road)
Heritage Oaks Tributary (SCGC)	From the confluence with Ginger Creek to approximately 2,900 feet above the confluence with Ginger Creek (approximately 700 feet above White Oak Lane)

Table 6 - Limits Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
Salt Creek Watershed (SC) - continued	
Lombard Tributary (SCGC)	From the confluence with Ginger Creek to approximately 5,400 feet above the confluence with Ginger Creek (approximately 800 feet upstream of Fountain Square Access Road)
Mays Lake Tributary (SCGC)	From the confluence with Ginger Creek to approximately 4,075 feet above the confluence with Ginger Creek (approximately 1,500 feet upstream of 31st Street)
McDonald Tributary (SCGC)	From the confluence with Ginger Creek to approximately 780 feet above the confluence with Ginger Creek (approximately at Ray Kroc Drive)
Midwest Club Tributary (SCGC)	From the confluence with Ginger Creek to approximately 2,650 feet above the confluence with Ginger Creek (approximately 350 feet upstream of 31st Street)
Oak Brook Tributary (SCOB)	From the confluence with Salt Creek to approximately 14,200 feet above the confluence with Salt Creek (approximately 1,350 feet upstream of Renaissance Boulevard)
Meacham Creek (SCSB)	From the confluence with Spring Brook Creek to approximately 12,800 feet above the confluence with Spring Brook Creek (approximately 1,650 feet upstream of Medinah Road)
Meacham Creek Tributary No. 1 (SCSB)	From the confluence with Meacham Creek to approximately 5,000 feet above the confluence with Meacham Creek (approximately 250 feet upstream of Granville Avenue)
Spring Brook Creek (SCSB)	From the confluence with Salt Creek to approximately 46,350 feet above the confluence with Salt Creek (approximately 850 feet upstream of Irving Park Road; Cook-DuPage County boundary)
Spring Brook Tributary No. 1 (SCSB)	From the confluence with Spring Brook Creek to approximately 6,450 feet above the confluence with Spring Brook Creek (approximately 2,100 feet upstream of Lake Street)
Salt Creek (SCSC)	From approximately 49,300 feet above the confluence with Des Plaines River (approximately at Interstate 294) to approximately 146,100 feet above the confluence with Des Plaines River (approximately at Devon Avenue; Cook-DuPage County boundary)
Sugar Creek (SCSU)	From the confluence with Salt Creek to approximately 20,450 feet above the confluence with Salt Creek (approximately 1,250 feet upstream of Grace Street)
Sugar Creek Tributary No. 2 (SCSU)	From the confluence with Sugar Creek to approximately 1,700 feet above the confluence with Sugar Creek (approximately 200 feet upstream of Roosevelt Road)
Sugar Creek Tributary No. 3 (SCSU)	From the confluence with Sugar Creek to approximately 3,350 feet above the confluence with Sugar Creek (at Montini Park Road)

Table 6 - Limits Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
Salt Creek Watershed (SC) - continued	
Sugar Creek Tributary No. 4 (SCSU)	From the confluence with Sugar Creek to approximately 1,220 feet above the confluence with Sugar Creek
Community Pond Tributary (SCWC)	From the confluence with Westwood Creek to approximately 6,500 feet above the confluence with Westwood Creek (approximately 650 feet upstream of Access Road)
Westwood Creek (SCWC)	From the confluence with Salt Creek to approximately 21,750 feet above the confluence with Salt Creek (just upstream of North Avenue)
Westwood Creek Reach No. 6 (SCWC)	From the confluence with Community Pond Tributary to approximately 2,200 feet above the confluence with Community Pond Tributary (approximately 950 feet upstream of 9th Avenue)
Sawmill Creek Watershed (SW)	
Argonne Tributary (SWSW)	From the confluence with Wards Creek to approximately 5,900 feet above the confluence with Wards Creek (approximately 250 feet upstream of Westgate Road)
Freund Brook (SWSW)	From the confluence with Sawmill Creek to approximately 13,300 feet above the confluence with Sawmill Creek (approximately at Westgate Road)
Sawmill Creek (SWSW)	From the confluence with Des Plaines River to approximately 37,250 feet above the confluence with Des Plaines River (approximately at 67th Street)
Sawmill Creek Reach No. 3 (SWSW)	From the confluence with Sawmill Creek to approximately 9,500 feet above the confluence with Sawmill Creek (approximately at 75th Street)
Sawmill Creek Reach No. 4 (SWSW)	From the confluence with Sawmill Creek Reach No. 3 to approximately 4,200 feet above the confluence with Sawmill Creek Reach No. 3 (approximately at Cass Avenue)
Sawmill Creek Reach No. 8 (SWSW)	From the confluence with Wards Creek to approximately 8,180 feet above the confluence with Wards Creek (approximately 2,420 feet upstream of Lake View Drive)
Sawmill Creek Reach No. 10 (SWSW)	From the confluence with Sawmill Creek to approximately 3,150 feet above the confluence with Sawmill Creek (just upstream of Plainfield Road)
Wards Creek (SWSW)	From the confluence with Sawmill Creek to approximately 7,400 feet above the confluence with Sawmill Creek (approximately at Interstate 55)
Wards Creek (SWWD)	From Interstate 55 to approximately 17,950 feet above Interstate 55 (approximately 16,680 feet upstream of Lemont Road)
Wards Creek Reach No. 2 (SWWD)	From the confluence with Wards Creek to approximately 3,200 feet above the confluence with Wards Creek (approximately at Manning Road)

Table 6 - Limits Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
West Branch DuPage River Watershed (WB)	
Cress Creek (WBCC)	From the confluence with West Branch DuPage River to approximately 6,150 feet above the confluence with West Branch DuPage River (approximately 200 feet upstream of West Street)
Ferry Creek (WBFE)	From the confluence with West Branch DuPage River to approximately 19,750 feet above the confluence with West Branch DuPage River (approximately 70 feet upstream of Access Road)
Ferry Creek Tributary No. 1 (WBFE)	From the confluence with Ferry Creek to approximately 4,820 feet above the confluence with Ferry Creek (approximately at McDowell Road)
Unnamed Tributary to Ferry Creek (WBFE) [1]	From approximately 1,880 feet above the confluence with Ferry Creek to approximately 3,440 feet above the confluence with Ferry Creek
South of Foxcroft Road Tributary (WBFX)	From approximately 5,440 feet above the confluence with West Branch DuPage River (DuPage-Will County boundary) to approximately 6,600 feet above the confluence with West Branch DuPage River
South of Foxcroft Road Tributary Reach No. 2 (WBFX)	From the confluence with West Branch DuPage River (DuPage-Will County boundary) to approximately 3,850 feet above the confluence with West Branch DuPage River (approximately 1,025 feet upstream of 87th Street)
Klein Creek (WBKC)	From the confluence with West Branch DuPage River to approximately 34,850 feet above the confluence with West Branch DuPage River (approximately 1,700 feet upstream of Schmale Road)
Klein Creek Tributary No. 1 (WBKC)	From the confluence with Klein Creek to approximately 8,025 feet above the confluence with Klein Creek (approximately 1,375 feet upstream of Pleasant Hill Road)
Klein Creek Tributary No. 2 (WBKC)	From the confluence with Klein Creek to approximately 2,400 feet above the confluence with Klein Creek (approximately 150 feet upstream of Blackhawk Drive)
Klein Creek Tributary No. 3 (WBKC)	From the confluence with Klein Creek to approximately 3,570 feet above the confluence with Klein Creek (approximately 1,750 feet upstream of 84th Court)
Kress Creek (WBKR)	From the confluence with West Branch DuPage River to approximately 42,250 feet above the confluence with West Branch DuPage River (approximately 75 feet upstream of Powis Road)
Kress Creek Reach No. 2 (WBKR)	From the confluence with Kress Creek to approximately 11,950 feet above the confluence with Kress Creek (approximately 55 feet upstream of Rail Road
Spring Brook No. 1 (WBSP)	From the confluence with West Branch DuPage River to approximately 30,500 feet above the confluence with West Branch DuPage River (approximately 2,600 feet upstream of Hawthorn Street)

[1] Stream studied in detail as part of LOMR 06-05-B753P

Table 6 - Limits Zone AE Study (continued)

Flooding Source	Limits of Zone AE Study
West Branch DuPage River Watershed (WB) - continued	
Steeple Run Tributary (WBSR)	From the confluence with West Branch DuPage River to approximately 11,550 feet above the confluence with West Branch DuPage River (approximately 900 feet upstream of Springhill Circle East)
Steeple Run Tributary Reach No. 3 (WBSR)	From the confluence with Steeple Run Tributary to approximately 2,900 feet above the confluence with Steeple Run Tributary
West Branch Reach No. 18 (WBWB)	From the confluence with West Branch DuPage River to approximately 1,750 feet above the confluence with West Branch DuPage River (approximately 35 feet upstream of railroad; 215 feet upstream of Donald Avenue)
West Branch Tributary No. 1 (WBW1)	From approximately 5,940 feet above the confluence with West Branch DuPage River (approximately at Forest Preserve Road) to approximately 10,380 feet above the confluence with West Branch DuPage River (just downstream of Gary Avenue)
West Branch Tributary No. 2 (WBW2)	From the confluence with West Branch DuPage River to approximately 12,050 feet above the confluence with West Branch DuPage River (just downstream of Devon Avenue)
West Branch Tributary No. 3 (WBW3)	From the confluence with West Branch DuPage River to approximately 8,200 feet above the confluence with West Branch DuPage River (just downstream of Waynewood Drive)
West Branch Tributary No. 4 (WBW4)	From the confluence with West Branch DuPage River to approximately 10,150 feet above the confluence with West Branch DuPage River (approximately 950 feet upstream of Timber Lane)
West Branch Tributary No. 6 (WBW6)	From the confluence with West Branch DuPage River to approximately 2,730 feet above the confluence with West Branch DuPage River (approximately 180 feet upstream of Unnamed Road)
West Branch Tributary No. 7 (WBW7)	From the confluence with West Branch DuPage River to approximately 3,370 feet above the confluence with West Branch DuPage River (approximately 1,590 feet upstream of Oxford Lane)
West Branch DuPage River (WBWB)	From approximately 11,300 feet above the confluence with DuPage River (at DuPage-Will County boundary) to approximately 164,300 feet above the confluence with DuPage River (at DuPage-Cook County boundary)
Winfield Creek (WBWF)	From the confluence with West Branch DuPage River to approximately 35,500 feet above the confluence with West Branch DuPage River (approximately 75 feet upstream of Farm Road)
Winding Creek (WBWG)	From the confluence with West Branch DuPage River to approximately 6,760 feet above the confluence with West Branch DuPage River (approximately 340 feet upstream of Modaff Road)

Zone A stream modeling was not within the requisite scope of new analyses included in this revised countywide FIS. Portions of model-based stream

delineations may, however, be depicted as Zone A on the FIRM based on engineering judgment. Additionally, some new or revised ponding area delineations may be depicted as Zone A on the FIRM based on known flood risk, topographic data analysis, and engineering judgment.

Letters of Map Revision

This FIS also provides a history of the incorporation of determination letters issued by FEMA that have resulted in map changes (Letter of Map Revision [LOMR]) since the December 16, 2004 initial countywide FIS. This incorporation is summarized in Tables 7a-b, "Incorporated Letters of Map Change."

It should be noted that all or portions of a given map change may be superseded by subsequent Letters of Map Revision or restudies.

Table 7a – Incorporated Letters of Map Change (To be determined)

LOMC Type	Case Number	Effective Date	Community	Flooding Source	Project Identifier
LOMR	14-05-2185P	09/10/2014	Lisle, Village of	Unnamed Zone A	Arbor Trails Subdivision
LOMR	13-05-3690P	09/02/2014	Lisle, Village of; DuPage County [1]	St. Joseph Creek Reach No. 3	*
LOMR	13-05-5378P	05/02/2014	Woodridge, Village of	Lily Cache Creek (DPLL)	Union Pointe Business Park
LOMR	13-05-2368P	08/02/2013	Glen Ellyn, Village of	Glen Crest Creek	650 Roosevelt Road
LOMR	13-05-1709P	05/28/2013	Darien, City of	Sawmill Creek Reach No. 8	Darien Re-delineation
LOMR	12-05-8596P	03/15/2013	Roselle, Village of	On-site basin (WBWB)	Bristol Crossing
LOMR	11-05-2629P	06/10/2011	Lisle, Village of	Unnamed Tributary to St. Procopius Creek (EBE6)	Woodglenn Park
LOMR	10-05-5743P	11/12/2010	Woodridge, Village of	Lily Cache Creek (DPLL)	NE Corner of I-355 and Boughton Road
LOMR	08-05-0178P	09/29/2008	Bensenville, Village of	North Unnamed Creek (DPFC)	LOMR from Zimmerman
LOMR	08-05-1383P	06/11/2008	Aurora, City of	Waubansee Creek (FRWA)	*
LOMR	08-05-1097P	05/26/2008	DuPage County [1]	Addison Creek (DPAC)	LOMR from Zimmerman
LOMR	08-05-0519P	05/04/2008	Elmhurst, Village of	Addison Creek Tributary No. 4 (DPAC)	LOMR from Zimmerman
LOMR	08-05-0818P	03/25/2008	Aurora, City of	Waubansee Creek (FRWA)	LOMR from Zimmerman

[1] Unincorporated areas
*Data not available

Table 7a – Incorporated Letters of Map Change (To be determined) - continued

LOMC Type	Case Number	Effective Date	Community	Flooding Source	Project Identifier
LOMR	07-05-2642P	03/20/2008	DuPage County [1]	Timber Lake (SWSW)	Timber Lake Drainage Improvements
LOMR	07-05-2451P	08/16/2007	Hinsdale, Village of	Tributary to East Branch DuPage River (EBEB)	East Branch Forest Preserve Dog Facility
LOMR	06-05-BZ77P	11/30/2006	Lisle, Village of	East Branch Reach No. 14 (EBEB) (formerly East Branch Tributary No. 3)	Reissuance of LOMR 03-05-4639P
LOMR	06-05-BZ76P	11/29/2006	Lisle, Village of	East Branch Reach No. 14 (EBEB) (formerly East Branch Tributary No. 3)	*
LOMR	06-05-B753P	11/22/2006	Warrenville, City of	Unnamed Tributary to Ferry Creek (WBFE)	Monarch Landing
LOMR	06-05-BM99P	10/31/2006	Woodridge, Village of	Unnamed Tributary Area	Farmingdale Village, Illinois
LOMR-F	06-05-B235A	02/14/2006	Carol Stream, Village of	Klein Creek (WBKC)	Fountains at Town Center, Subdivision, Lots 1-41, Lot F, Lot G and Lot H
LOMR	04-05-039P	04/09/2004	DuPage County [1]	Kress Creek	West Park Property (2nd submittal)
LOMR	03-05-2146P	05/30/2003	Woodridge, Village of	Unnamed Tributary to East Branch DuPage River (EBEB)	Normandale Subdivision
LOMR	02-05-2605P	12/19/2002	Carol Stream, Village of	Klein Creek (WBKC)	Carol Stream Fire Station No. 1
LOMR	02-05-3599P	10/01/2002	Hinsdale, Village of	Kress Creek (WBKR)	No Project Basis of Request = Correction
LOMR	02-05-122X	02/04/2002	Lisle, Village of	Unnamed Tributary to East Branch DuPage River	Correction to LOMR 01-05-1152P
LOMR	01-05-910P	03/23/2001	Downers Grove, Village of	Unnamed Depressional Ponding Area	Rommele & Lloyd Property
LOMR	00-05-071P	07/05/2000	Winfield, Village of	West Branch DuPage River (WBWB)	Central DuPage Hospital
LOMR	99-05-6624P	06/21/2000	Bartlett, Village of	Local Depressional Area (EBEB)	Bartlett Property
LOMR	99-05-151P	03/21/2000	Burr Ridge, Village of	Plainfield Ditch (DPFC)	Fieldstone Units 1-4 & Fieldstone Club

[1] Unincorporated areas
*Data not available

Table 7a – Incorporated Letters of Map Change (To be determined) - continued

LOMC Type	Case Number	Effective Date	Community	Flooding Source	Project Identifier
LOMR	99-05-189P	03/03/2000	DuPage County [1]	Des Plaines River Reach No. 7 (formerly Sawmill Creek Tributary No. 3)	Hinsdale Point North
LOMR	99-05-187P	11/30/1999	Glen Ellyn, Village of	Unnamed Depressional Area	Depressional Area-Brookside Living Communities
LOMR	99-05-115P	08/04/1999	Carol Stream, Village of; DuPage County [1]	Klein Creek Tributary 1 (WBKC)	Klein Creek Business Center
LOMR	98-05-037P	05/24/1999	Bensenville, Village of; DuPage County [1]	Addison Creek (DPAC)	William Redmon Reservoir (formerly George Street Reservoir)
LOMR	97-05-209P	07/21/1998	Willowbrook, Village of	63rd Street Ditch/Marion Hills Trail (DPFC)	63rd Street Ditch & South Branch of Marion Hills Tributary-Breton Lake Subdivision
LOMR	96-05-379P	01/30/1998	Naperville, City of	Winding Creek (WBWG)	Bethany Lutheran Church & School
LOMR	95-05-153P	12/16/1997	Naperville, City of	Spring Brook No. 2 (DUSG)	Downstream of Carol Acres
LOMR	97-05-019P	08/27/1997	Bensenville, Village of	Bensenville Ditch (DPBD) [2]	O'Hare Cargo Center, Phase 1
LOMR	97-05-107P	08/19/1997	Bensenville, Village of	Addison Creek Tributary 3 (DPAC)	Scott Brothers Property
LOMR	94-05-109P	05/15/1997	Burr Ridge, Village of	63rd Street Ditch (DPFC)	63rd Street Ditch
LOMR	97-05-061P	04/29/1997	Winfield, Village of	Klein Creek Tributary No. 1 and Unnamed Tributary to Klein Creek	Klein Creek Development
LOMR	97-05-189P	04/07/1998	Bensenville, Village of	Bensenville Ditch (DPBD) [2]	Bensenville Ditch Improvements
LOMR	96-05-141P	01/02/1997	Carol Stream, Village of; DuPage County [1]	Klein Creek Tributary No. 3 (WBKC)	Hartsing Farm
LOMR	96-05-157P	05/16/1996	Naperville, City of	Unnamed Tributary to Spring Brook No. 2 (DUSG)	LOMR from Zimmerman

[1] Unincorporated areas
[2] Identified as Silver Creek in LOMR documentation

Table 7a – Incorporated Letters of Map Change (To be determined) - continued

LOMC Type	Case Number	Effective Date	Community	Flooding Source	Project Identifier
LOMR	94-05-253P	02/27/1996	Darien, City of	Tributary of West Branch Sawmill Creek (SWSW)	LOMR from Zimmerman
LOMR	95-05-203P	12/05/1995	Naperville, City of	Spring Brook No. 2 (DUSG)	Carol Acres Storm Management Lake System
LOMR	95-05-578P	11/11/1995	Warrenville, City of	Unnamed Tributary to Ferry Creek (WBFE)	LOMR from Zimmerman
LOMR	95-05-119P	10/10/1995	Glendale Heights, Village of	Unnamed Ponding Area	LOMR from Zimmerman
LOMR	95-05-077P	04/14/1995	DuPage County [1]	Unnamed Tributary to East Branch DuPage River (EBEB)	Unnamed Tributary to East Branch DuPage River
LOMR	94-05-205P	07/27/1994	Naperville, City of	West Branch DuPage River (WBWB)	Watercress Drive
LOMR	93-05-107P	09/17/1993	Carol Stream, Village of	Klein Creek Tributary No. 3 (WBKC)	Stark Farm Development
LOMR	93-05-029P	05/06/1993	Naperville, City of	West Branch DuPage River (WBWB)	LOMR from Zimmerman
LOMR	92-05-139P	12/17/1992	Warrenville, City of	Unnamed Tributary of West Branch DuPage River (WBWB)	LOMR from Zimmerman
LOMR	92-05-091P	12/10/1992	Aurora, City of	Unnamed Tributary to Spring Brook (SCSB)	White Eagle Club Unit 6 & Lot 572
LOMR	905091 (199106022FIA)	11/26/1990	Bartlett, Village of	West Branch Tributary No. 2 (WBW2) (formerly Country Creek)	*
LOMR	885019	06/05/1987	DuPage County [1]	Addison Creek Tributary No. 4 (DPAC)	*
LOMR	199100004FIA	04/24/1987	Hinsdale, Village of	Flagg Creek (DPFC)	*
LOMR	199100246FIA	2/27/1986	Hinsdale, Village of	Flagg Creek (DPFC)	*

[1] Unincorporated areas
*Data not available

Table 7b – Incorporated Letters of Map Change (December 16, 2004)

LOMC Type	Case Number	Effective Date	Community	Flooding Source	Project Identifier
LOMR	04-05-039P [2]	04/09/2004	DuPage County [1]	Kress Creek	West Park Property
LOMR	04-05-0489P	12/19/2003	Bloomingdale, Village of	West Branch Spring Brook Creek	Swanson Lake St. Property
LOMR	03-05-795P	10/16/2003	DuPage County [1]; Oak Brook, Village of; Oakbrook Terrace, City of	Lower Salt Creek (2nd Submittal)	*
LOMR	02-05-2605P [2]	12/19/2002	Carol Stream, Village of	Klein Creek	Carol Stream Fire Station No. 1
LOMR	02-05-3914P	12/12/2002	Lisle, Village of	Rott Creek	Peach Creek Subdivision (2nd Submittal)
LOMR	02-05-3590P	10/09/2002	Lisle, Village of	East Branch Tributary 6/ St. Procopius Creek	Hidden Lake Subdivision (2nd Submittal)
LOMR	02-05-122X [2]	02/04/2002	Lisle, Village of	East Branch DuPage River	Correction to LOMR 01-05-1153P
LOMR	01-05-1683X	08/28/2001	Addison, Village of; DuPage County [1]; Village Park, Village of	Salt Creek	Elmhurst, IL PMR, Eff. May 16, 1995
LOMR	01-05-1153P	07/24/2001	DuPage County [1]; Lisle, Village of	East Branch DuPage River	Paramount Developers, Inc.
LOMR	01-05-910P [2]	03/23/2001	Downers Grove, Village of	Depressional Ponding Area	Roemmele & Lloyd Property
LOMR	99-05-227P	02/14/2001	DuPage County [1]; Villa Park, Village of	Salt Creek	Elmhurst, IL, PMR effective
LOMR	00-05-071P [2]	07/05/2000	Winfield, Village of	West Branch DuPage River	Central DuPage Hospital
LOMR	99-05-189P [2]	03/03/2000	DuPage County [1]	Sawmill Creek Tributary No. 3	Hinsdale Point North
LOMR	99-05-273P [2]	01/01/2000	Lombard, Village of	Sugar Creek	Highland Estates (follow-up to CLOMR 98-05-285R)
LOMR	99-05-187P [2]	11/30/1999	Glen Ellyn, Village of	Depressional Area	Brookside Living Communities

[1] Unincorporated areas
[2] LOMC incorporation incomplete in December 16, 2004 FIS and/or FIRM; therefore, case number also included in Table 7a
*Data not available

Table 7b – Incorporated Letters of Map Change (December 16, 2004) - continued

LOMC Type	Case Number	Effective Date	Community	Flooding Source	Project Identifier
LOMR	98-05-037P [2]	05/24/1999	Bensenville, Village of; DuPage County [1]	Addison Creek	William Redmon Reservoir (formerly George Street Reservoir
LOMR	96-05-279P	11/26/1997	Darien, City of	West Branch Sawmill Creek	Bailey Park
LOMR	97-05-115P	07/18/1997	Lisle, Village of	East Branch DuPage River Tributary 3	American Homes Property
LOMR	97-05-061P [2]	04/29/1997	Winfield, Village of	Klein Creek Tributary No. 1 and Unnamed Tributary to Klein Creek	Klein Creek Development
LOMR	97-05-007P	04/01/1997	DuPage County [1]; Woodridge, Village of	Prentiss Creek	Revision of 9/30/93 LOMR
LOMR	96-05-141P [2]	01/02/1997	Carol Stream, Village of	Klein Creek Tributary No. 3	Hartsing Farm
LOMR	96-05-075P	04/02/1996	Oak Brook, Village of	Luthin Pond	Girgin Property
LOMR	94-05-1004P	02/10/1995	DuPage County [1]; Oak Brook, Village of	Salt Creek	Workshire Woods – Timber Trails Subdivisions
LOMR	94-05-001P	12/06/1993	DuPage County [1]	None	Change to corporate limits
LOMR	93-05-283P	09/30/1993	Woodridge, Village of	East Branch DuPage River and Prentiss Creek	*
LOMR	93-05-107P [2]	09/17/1993	Carol Stream, Village of	Klein Creek, Klein Creek Tributary No. 3	Stark Farm Development
LOMR	199108191FIA	09/26/1991	Oakbrook Terrace, City of	Spring Road Tributary	Area upstream of Illinois Route 83
LOMR	199105908FIA	11/08/1990	Carol Stream, Village of	Klein Creek	Carol Stream WWTP
LOMR	199105892FIA	10/26/1990	Lisle, Village of	Rott Creek	Floodway revision
LOMR	199105900FIA	10/11/1990	Wheaton, City of	East Branch Tributary 5	Briarcliff Flood Control Project
LOMR	199101993FIA	05/09/1990	Elmhurst, City of	*	Lot 21, Powell's Meadowlands
LOMR	199102134FIA	02/20/1990	Oak Brook, Village of	Ginger Creek	*
LOMR	199102077FIA	09/27/1989	DuPage County [1]	*	Requester: D. Marting
LOMR	199102043FIA	04/06/1989	Oak Brook, Village of	Salt Creek	*

[1] Unincorporated areas

[2] LOMC incorporation incomplete in December 16, 2004 FIS and/or FIRM; therefore, case number also included in Table 7a

*Data not available

2.2 Community and Watershed Description

DuPage County is situated in northeastern Illinois, approximately 25 miles directly west of the City of Chicago. DuPage County is bordered by Cook County on the north and east, Will County on the south, and Kane County on the west. The county encompasses 327.5 square miles and has a residential population of 916,924 according to the 2010 U.S. Census. The gross residential density in 2010 was 2,800 people per square mile (Reference 21).

Land use in DuPage County has changed significantly since the 1950s. In 1955, agriculture made up 58 percent of the total land use. By 1992, only 8.6 percent of the land was still used for agricultural purposes. The majority of the county has been developed for residential use, with many commercial and industrial establishments located in the eastern half of the county (Reference 22).

There are seven major drainage basins in DuPage County. These are: the Des Plaines River watershed, the DuPage River watershed, the East Branch DuPage River watershed, the Fox River watershed, Salt Creek watershed, Sawmill Creek watershed, and the West Branch DuPage River watershed (see Figure 1).

Des Plaines River Watershed (DP)

The Des Plaines River watershed includes all the easternmost tributaries located in DuPage County that are not within the Salt Creek Watershed. The general flow of the watershed is southeasterly in the headwaters and southwesterly at the Des Plaines River. Waters that enter the northeastern section of DuPage County will flow east into Cook County, forming the Des Plaines River. As the Des Plaines River begins its turn to the southwest, it joins with Salt Creek and then forms the southwest border between DuPage and Will Counties. The Des Plaines River continues on a southwest course where it confluences with the Illinois River in Joliet (Reference 19).

Tributaries joining the Des Plaines River in DuPage County include: Flagg Creek, Sawmill Creek and associated Wards Creek, the East Branch DuPage River, West Branch DuPage River, and the DuPage River. These are considered in greater detail in subsequent sections.

DuPage River Watershed (DU)

In DuPage County, only a small portion of watershed area is attributed to the DuPage River: Spring Brook No. 2. This tributary drains to the south into Will County where it confluences with the DuPage River. Just upstream of this confluence is the junction of the East and West Branches of the DuPage River. The DuPage River continues on a southerly course where it intersects Lily Cache Creek and eventually the Des Plaines River in Joliet (Reference 19).

East Branch DuPage River Watershed (EB)

The East Branch DuPage River flows southward in the central portion of DuPage County. Communities that are adjacent to this river are Bloomingdale, Glendale Heights, Lombard, Glen Ellyn, Downers Grove, Lisle, and Woodridge. Other communities that contribute watershed area to the East Branch are Addison, Carol Stream, Darien, Oak Brook, Naperville, Wheaton, and Westmont. The headwaters of the East Branch DuPage River begin in the Village of Bloomingdale and proceed to the south, not greatly altering course. Much of the river in the northern to central portions of the watershed is the result of channelization work from the early part of the 20th century (Reference 19).

Major tributaries of the East Branch DuPage River include: Armitage Creek, Army Trail Tributary, Crabtree Creek, Glen Crest Creek, East Branch Tributaries 1, 2, 7, and 14, Lacey Creek, St. Procopius Creek, Prentiss Creek, Rott Creek, St. Joseph Creek, Swift Meadows, 22nd Street Tributary, and Willoway Brook.

East Branch DuPage River watershed flooding issues include: overbank flooding at numerous locations along the main stem of the East Branch DuPage River and flooding problems at several locations in the East Branch Tributary No. 2 watershed, generally resulting in residential flooding and road overtopping (Reference 23).

Fox River Watershed (FR)

The Fox River flows through the Illinois counties of Lake, McHenry, Kane, Kendall, and LaSalle to its confluence with the Illinois River at Ottawa, Illinois. DuPage County contributes watershed area to the Fox River from all tributaries bordering the west side of the county, with the exception of tributaries that drain to the West Branch DuPage River.

The DuPage County tributaries that drain to the west into Kane and Kendall Counties towards the Fox River are: Brewster Creek, Indian Creek, Norton Creek, and Waubansee Creek (Reference 19).

Salt Creek Watershed (SC)

Salt Creek is a tributary of the Des Plaines River, where a portion of the creek flows through the eastern-central sections of DuPage County. Much of the watershed area in Salt Creek is densely developed and has as a result suffered from significant flooding events. The communities of Roselle, Itasca, Wood Dale, Addison, Lombard, Villa Park, Elmhurst, Oak Brook, Oakbrook Terrace, Westmont, Clarendon Hills, and Hinsdale all contribute watershed area to Salt Creek and its tributaries (Reference 19).

Salt Creek tributaries in DuPage County include: Bronswood Tributary, Devon Avenue Tributary, Ginger Creek, Oakbrook Tributary, Spring Brook Creek, Sugar Creek, and Westwood Creek.

Salt Creek watershed flooding issues include: overbank flooding at numerous locations along the main stem of Salt Creek resulting in flooding of both residential and commercial buildings; greater than average runoff in the Oak Brook Tributary watershed resulting from the watershed's narrow shape in combination with development within the watershed; significant flooding problems in the Sugar Creek watershed primarily in the lower watershed downstream of Villa Avenue (Reference 24).

Sawmill Creek Watershed (SW)

Sawmill Creek (a Des Plaines River tributary) is the smallest watershed identified within DuPage County. Sawmill Creek is found in the southeastern section of DuPage County and draws watershed area from the communities of Darien, Willowbrook, Woodridge, Burr Ridge, and Downers Grove. As Sawmill Creek approaches the Des Plaines River, the characteristics of the watershed change from mild or moderately-sloped residential to steeply-sloped forested. It is this lower watershed area that is home to the Waterfall Glen Forest Preserve and Argonne National Laboratory.

Sawmill Creek's tributary, Wards Creek, joins Sawmill Creek on the south side of I-55, north of Argonne National Laboratory. Sawmill Creek reaches its confluence with the Des Plaines River approximately 7,000 feet downstream of the Route 83 crossing of the Des Plaines River.

Past overbank flooding along Sawmill Creek has caused residential damages, traffic disruptions, and associated neighborhood degradation caused by frequent flooding (Reference 19). Damages and road overtoppings have also occurred along the main stem of Wards Creek (Reference 25).

West Branch DuPage River Watershed (WB)

The West Branch DuPage River, the largest watershed in DuPage County, flows southward near the western edge of the county. The West Branch DuPage River flows through the communities of Hanover Park, Bartlett, Winfield, West Chicago, Warrenville, and Naperville. The communities of Roselle, Wayne, Bloomingdale, Carol Stream, Wheaton, Glendale Heights, St. Charles, Glen Ellyn, Lisle and Aurora also contribute watershed area to the West Branch DuPage River. The West Branch headwaters are found to the north of DuPage County in Cook County. The river enters DuPage County in the Village of Hanover Park where is winds west towards Bartlett. The river takes a slow serpentine approach, always to the south, changing bearing to the southeast through Warrenville and Naperville. Unlike the other more urbanized major river systems in DuPage County, the West Branch DuPage River has large forested buffers throughout its length. It is only when approaching the Warrenville and Naperville area where the river buffer decreases, also increasing the likelihood of flood impacts.

Major tributaries within this drainage basin include: Cress Creek, Ferry Creek, South of Foxcroft Road Tributary, Klein Creek, Kress Creek, Spring Brook No. 1, and Steeple Run Tributary, West Branch Tributaries, Winding Creek, and Winfield Creek.

Significant flooding has been documented along the main stem of the West Branch DuPage River and along many of its tributaries including Klein Creek, Kress Creek, Winfield Creek, and Steeple Run Tributary (Reference 19).

The watersheds located within DuPage County are presented in Figure 1, "DuPage County Principal and Tributary Watersheds."

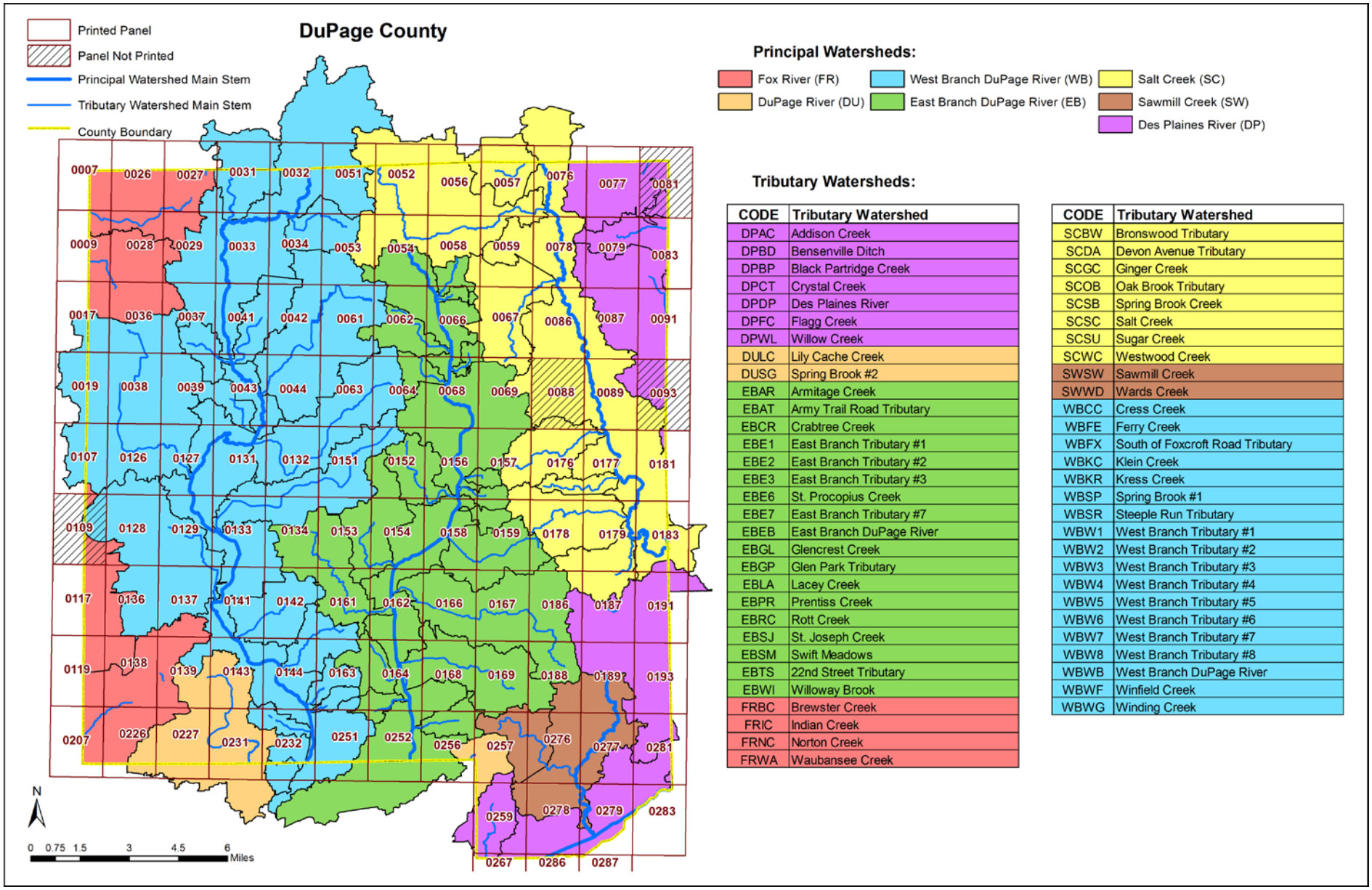

Figure 1 – DuPage County Principal and Tributary Watersheds

2.3 Principal Flood Problems

DuPage County experienced rapid growth and new development during the 1960s and 1970s. As a result of this new development, many natural stormwater drainage systems in the county can no longer adequately handle the increased surface runoff. This lack of natural stormwater storage combined with ineffective stormwater practices resulted in large areas of commercial and residential development within flood hazard areas. Flooding occurred frequently during the 1970s and 1980s, which caused damage to many residential and commercial buildings. A damaging flood occurred in August 1987, resulting in more than $200 million in damages in DuPage County (Reference 19).

More recently, record flooding occurred in the county in April 2013 as recorded at gages located on the East Branch DuPage River near Downers Grove (USGS Gage No. 05540095; Peak Streamflow: 2,290; Gage Height: 13.9), Salt Creek at Elmhurst (USGS Gage No. 05531300; Streamflow: 2,290 cfs; Gage Height: 13.9 feet), St. Joseph Creek at Rt. 34 at Lisle (USGS Gage No. 05540195; Streamflow: 2,290 cfs; Gage Height: 14.98), and the West Branch DuPage River near Warrenville (USGS Gage No. 05540095; Streamflow: 4,160; Gage Height: 17.08 feet) (Reference 26). In June 2013, the U.S. Dept. of House and Urban Development (HUD) announced that DuPage County would receive $18.9 million in disaster relief funds related to the April 2013 flood event in addition to the $7 million HUD previously approved for the county related to the same flood event (Reference 27).

2.4 Flood Protection Measures

After experiencing damage from the August 1987 flood event, DuPage County began to take measures to protect against future flooding. Over the next decade, the County proceeded to construct over $100 million in flood control projects, developed a county wide comprehensive stormwater and floodplain ordinance, and continued to update regulatory floodplain maps throughout the County. The main objectives have included development of a watershed plan for each stream in DuPage County and implementation of the Countywide Stormwater and Flood Plain Ordinance, with its enforcement beginning in February 1992 (Reference 19).

For purposes of the NFIP, FEMA only recognizes levee systems that meet, and continue to meet, minimum design, operation, and maintenance standards that are consistent with comprehensive floodplain management criteria. The Code of Federal Regulations, Title 44, Section 65.10 (44 CFR 65.10) describes the information needed for FEMA to determine if a levee system reduces the risk from the 1-percent-annual-chance flood. This information must be supplied to FEMA by the community or other party when a flood risk study or restudy is conducted, when FIRMs are revised, or upon FEMA request. FEMA reviews the information for the purpose of establishing the appropriate FIRM flood zone.

Levee systems that are determined to reduce the risk from the 1-percent-annual-chance flood are accredited by FEMA.

3.0 ENGINEERING METHODS

For the flooding sources studied by Zone AE methods in DuPage County, standard hydrologic and hydraulic study methods were used to determine the flood hazard data required for this study. Flood events of a magnitude that are expected to be equaled or exceeded once on the average during any 10-, 25-, 50-, 100-, or 500-year period (recurrence interval) have been selected as having special significance for floodplain management and for flood insurance rates. These events, commonly termed the 10-, 25-, 50-, 100-, and 500-year floods, have a 10-, 4-, 2-, 1-, and 0.2-percent chance, respectively, of being equaled or exceeded during any year. Although the recurrence interval represents the long term, average period between floods of a specific magnitude, rare floods could occur at short intervals or even within the same year. The risk of experiencing a rare flood increases when periods greater than 1 year are considered. For example, the risk of having a flood which equals or exceeds the 1-percent-annual-chance flood in any 50-year period is approximately 40 percent (4 in 10), and, for any 90-year period, the risk increases to approximately 60 percent (6 in 10). The analyses reported herein reflect flooding potential based on conditions existing in DuPage County at the time of completion of this study. Maps and flood elevations will be amended periodically to reflect future changes.

3.1 Hydrologic Analyses

Hydrologic analyses were carried out to establish peak discharge-frequency relationships for each flooding source studied by detailed methods affecting the county.

Analyses that have not been superseded have been compiled and are summarized below.

Pre-Countywide FISs

Des Plaines River Watershed (DP)

Addison Creek Tributaries 1, 2, and 3 (DPAC)

Peak Discharges for Addison Creek Tributaries 1, 2, and 3 were computed using the TR-20 computer program (Reference 28). The 0.2-percent annual-chance peak discharge was determined using a linear extrapolation preformed on probability paper.

Des Plaines River (DPDP)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for the main stem of the Des Plaines River were computed using the log-Pearson Type III method (Reference 29) for gaged streams. The 0.2-percent annual-chance peak discharge was estimated by straight-line extrapolation. The USGS stream gage used for the hydrologic analyses is presented below.

Flooding Source and Location	USGS Gage No.	Drainage Area (sq. miles)	Record (years)
Des Plaines River at Lockport	05534050	700.0	7

Des Plaines River Reach No. 7 (DPDP)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for Des Plaines River Reach No. 7 (formerly Sawmill Creek Tributary No. 3) were computed using regional equations for ungaged streams (Reference 30, 31). The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation.

Flagg Creek and Tributaries (DPFC)

Hydrologic analyses were performed using the State Standard Method, and discharges for 10- and 1-percent-annual-chance floods were estimated for Flagg Creek using the regional urbanized equations for Illinois (Reference 32). For each cross section of Flagg Creek, discharges for the 10- and 1-percent-annual-chance floods were plotted on log-normal probability paper. The 2- and 0.2-percent-annual-chance flood discharges were estimated by straight-line interpolation and extrapolation, respectively. The 0.2-percent-annual-chance flood discharge is less reliable than the others because the period of record for discharge gages used to develop the regional urban equations is about 30 years.

For the 59th Street Ditch, discharges for the 2- and 1-percent-annual-chance floods were computed using the Illinois State Standard Method Urbanized Equations (Reference 32). For each cross section, discharges for the 2- and 1-percent-annual-chance floods were plotted on log-normal probability paper. The 10-, 2-, and 0.2-percent-annual-chance flood discharges were estimated by straight-line interpolation and extrapolation.

For the 63rd Street Ditch, discharges for the 10-, 2-, and 1-percent-annual-chance floods were determined using regional equations developed by the ISWS. The principal factors considered in this method were soil types, land uses, watershed slope, channel slope and dimensions, and rainfall distributions (Reference 30). The discharges were adjusted using factors recommended by the ISWS that were developed from data for the USGS gage on Flagg Creek at Willow Springs, Illinois.

For 79th Street Ditch and Plainfield Road Ditch, discharges for the 10-, 2-, and 1-percent-annual-chance floods were determined using regional flood-frequency

equations. The parameters used were channel slope, drainage area, and the percent of urbanization and nearby gage records using methods recommended by the ISWS. These methods were determined by the log-Pearson Type III analysis and the regional discharge equation at gage location (Reference 33). The adjustment coefficients were developed from data for the USGS gage (No. 05533000, established in 1951), located at the 16.2-mile marker on Flagg Creek at Willow Springs, Illinois. The flood discharges on Plainfield Road Ditch are much higher than the discharges of 79th Street Ditch because the slope of Plainfield Road Ditch is 30 percent greater than the slope of 79th Street Ditch, thereby increasing the rate of runoff.

North Unnamed Creek and South Unnamed Creek (DPWL)

Peak discharges for the North Unnamed Creek and South Unnamed Creek were determined using the HEC-1 computer program (Reference 34) and the U.S. Soil Conservation Service (SCS) hydrograph feature of the HEC-1 model (Reference 35). The 0.2-percent-annual-chance peak discharge was determined using a linear extrapolation performed on probability paper.

DuPage River Watershed (DU)

Spring Brook No. 2 (DUSG)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for Spring Brook No. 2 within the unincorporated areas of DuPage County were computed using regional equations for ungaged streams (Reference 30, 31). The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation.

East Branch DuPage River Watershed (EB)

East Branch Tributary No. 1 (EBE1)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for East Branch Tributary No. 1 were computed using regional equations for ungaged streams (Reference 30, 31). The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation.

St. Procopius Creek (EBE6)

Discharges for St. Procopius Creek were computed by using the square root of the drainage areas ratio applied to the results for Lacey Creek. Lacey Creek is a local area tributary of the East Branch DuPage River considered to have similar drainage characteristics to St. Procopius Creek. Discharge for the 0.2-percent annual-chance flood was determined by linear extrapolation of a log-probability graph plotted for calculated peak discharges.

East Branch Tributary No. 7 (EBE7)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for East Branch Tributary No. 7 studied by the limited detail method were computed using regional equations for ungaged streams (Reference 30, 31). The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation.

East Branch Tributary No. 14 (EBEB)

For East Branch Tributary No., synthetic frequency-discharge curves were derived for three stations used in a Chicago Metropolitan - DuPage River Basin study (Reference 36) using regionalized statistics developed in that study and assuming zero skew. The 0.2-percent annual-chance flood discharge was determined by linear extrapolation of a log-probability graph plotted for calculated peak discharges.

St. Joseph Creek Reach No. 3 (EBSJ)

Discharges were derived using the State Standard Method. Discharges for the 10- and 1-percent-annual-chance floods were computed using regional equations for Illinois (Reference 32). Hydrologic and hydraulic analysis of the detention ponds on the stream showed that their effect on floods greater than or equal to the 10-percent-annual-chance event is minimal. Therefore, no adjustments were applied to the discharges developed from the regional equations. Discharges for the 10- and 1-percent-annual-chance floods were plotted on log-normal probability paper. The 2- and 0.2-percent-annual-chance flood discharges were estimated by straight line interpolation and extrapolation, respectively.

22nd Street Tributary (EBTS)

Frequency-discharge data were developed through the use of the SCS *Urban Hydrology for Small Watersheds*, Technical Release No. 55 (Reference 37). This method was considered the most appropriate because the drainage areas were small, and the method accounted for the diversity and irregularity of the land use within the basin.

Fox River Watershed (FR)

Brewster Creek (FRBC)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for Brewster Creek were computed using the log-Pearson Type III method (Reference 29) for gaged streams. The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation. The USGS stream gage used for the hydrologic analysis is presented below.

Flooding Source and Location	USGS Gage No.	Drainage Area (sq. miles)	Record (years)
Brewster Creek at Valleyview	05551030	14.00	14

Norton Creek and Norton Creek Tributary (FRNC)

For Norton Creek and Norton Creek Tributary, a regional frequency analysis was completed for the gages in the vicinity of the Norton Creek drainage basin. Thirteen USGS gages with one to 20 years of records in the DuPage River drainage basin provided data for the regional frequency analysis. To enable the regional frequency model to more accurately predict the flows for a small basin, the DuPage data was augmented by records from gages with small drainage areas. Also included in the study were six gages from DuPage County basin having drainage areas of less than 20.0 square miles and six gages from basins within the region having drainage areas less than 2.0 square miles. The technique for a regional frequency analysis outlined in Bulletin No. 17 from the U.S. Water Resources Council (Reference 29) was used to calculate the discharges for Norton Creek and Norton Creek Tributary.

Flooding Source and Location	USGS Gage No.	Drainage Area (sq. miles)	Record (years)
Norton Creek at Wayne	05551050	7.35	15

Waubansee Creek (FRWA)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for Waubansee Creek within the unincorporated areas of DuPage County were computed using the log-Pearson Type III method (Reference 29) for gaged streams and regional equations for ungaged streams (Reference 30, 31).

For the City of Aurora reach of Waubansee Creek, estimates of the 10-, 2-, and 1-percent-annual-chance floods were made using regional equations for Illinois (Reference 30). Discharges were plotted on log-normal probability paper, and the 0.2-percent-annual-chance flood discharges were estimated by straight line extrapolation.

West Branch DuPage River Watershed (WB)

Cress Creek (WBCC)

For Cress Creek, synthetic frequency-discharge curves were derived using regional statistics developed in the Chicago Metropolitan - DuPage River Basin study (Reference 36). These discharges assume zero skew. Discharges for the 0.2-percent-annual-chance floods of all streams were determined by linear extrapolation of a log probability curve of flood discharges computed for frequencies of up to 1-percent annual chance.

Ferry Creek (WBFE)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for Ferry Creek and were computed using the log-Pearson Type III method (Reference 29) for gaged streams. The 0.2-percent-annual-chance flood discharge was estimated by straight-line extrapolation. The USGS stream gage used for the hydrologic analysis is presented below.

Flooding Source and Location	USGS Gage No.	Drainage Area (sq. miles)	Record (years)
Ferry Creek at Warrenville	05540110	4.27	15

South of Foxcroft Road Tributary (WBFX)

Discharges for South of Foxcroft Road Tributary and South of Foxcroft Road Tributary Reach No. 2 were adjusted to reflect interbasin flow between the two streams. The Hydrologic Investigations Atlas for the Normantown quadrangle indicates that interbasin flow occurred during the October 1954 flood (Reference 38). Discharges for the two streams were adjusted on a trial-and-error basis until corresponding water-surface elevations in the area of interbasin flow were within 0.5 foot of each other, reflecting gently sloping sheet flow between the two streams. As a result, discharges for the South of Foxcroft Road Tributary were decreased, while those for South of Foxcroft Road Tributary Reach No. 2 were increased.

Klein Creek and Tributaries (WBKC)

Discharge-frequency data for the reach of Klein Creek within the Village of Carol Stream and Klein Creek Tributary No. 2 were developed through the use of the Chicago Metropolitan - DuPage River Basin study performed by the USACE's Hydrologic Engineering Center (Reference 36). In the Chicago study, the DuPage River Basin above Shorewood, Illinois was divided into 20 subareas and a generalized HEC-1 rainfall-runoff computer model was calibrated for the basin (Reference 34). Using 24-hour rainfall data obtained from Weather Bureau Technical Paper No. 40, one-hour values, in critical order, were entered into the HEC-1 model of the DuPage River Basin to determine the 10-, 2-, and 1-percent-annual-chance peak discharges (Reference 39).

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for Klein Creek Tributary No. 1 and the reach of Klein Creek within the unincorporated areas of DuPage County as well as the 10- and 1-percent-annual-chance floods for Klein Creek Tributary No. 3 were computed using the log-Pearson Type III method (Reference 29) for gaged streams and regional equations for ungaged streams (Reference 30, 31). The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation. The USGS stream gage used for the hydrologic analysis is presented in below.

Flooding Source and Location	USGS Gage No.	Drainage Area (sq. miles)	Record (years)
Klein Creek at Carol Stream	05539950	8.81	15

Kress Creek and Kress Creek Reach No. 2 (WBKR)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for Kress Creek and Kress Creek Reach No. 2 within the unincorporated areas of DuPage County were computed using the log-Pearson Type III method (Reference 29) for gaged streams and regional equations for ungaged (Reference 30, 31). The USGS stream gage used for the hydrologic analyses is presented in below. The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation.

Flooding Source and Location	USGS Gage No.	Drainage Area (sq. miles)	Record (years)
Kress Creek at West Chicago	05540050	10.01	15

Kress Creek is within sub area 6 of the Chicago Metropolitan - DuPage River Basin study performed by the USACE's Hydrologic Engineering Center (Reference 36). Peak flows for this sub area, previously derived by the Chicago District, were utilized to derive peak flood flows for the reaches of Kress Creek and Kress Creek Reach No 2 within the City of West Chicago. A discharge-frequency relationship was developed for Kress Creek at State Highway 38, and peak flows for Kress Creek at the mouth were obtained by applying the square root of the drainage area ratio. The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation.

The peak discharge for a portion of the headwater area of Kress Creek studied by Zone A methods was determined from a regional curve, which indicated the 1-percent-annual-chance peak discharge as a function of average streambed slope. This curve was determined by solving and plotting solutions to the multiple regression equation adopted by the State of Illinois for several streams within DuPage County (Reference 30).

West Branch Tributaries No. 1, 2, 3, 4, 6, 7, and 18
(WBW1), (WBW2), (WBW3), (WBW4), (WBW6), (WBW7), (WBWB)

For West Branch Tributaries No. 1, 2, 3, 4, 6, 7, and 18, synthetic frequency-discharge curves were derived using regional statistics developed in the Chicago Metropolitan - DuPage River Basin study performed by the USACE's Hydrologic Engineering Center (Reference 36). These discharges assume zero skew.

West Branch DuPage River (WBWB)

Discharge-frequency data for the West Branch DuPage River were developed through the use of the Chicago Metropolitan - DuPage River Basin study performed by the USACE's Hydrologic Engineering Center (Reference 36). In the Chicago study, the DuPage River Basin above Shorewood, Illinois, was

divided into 20 subareas and a generalized HEC-1 rainfall-runoff computer model was calibrated for the basin (Reference 34). Using 24-hour rainfall data obtained from Weather Bureau Technical Paper No. 40, one-hour values, in critical order, were entered into the HEC-1 model of the DuPage River Basin to determine the 10-, 2-, and 1-percent-annual-chance peak discharges (Reference 39). The USGS stream gages used for the hydrologic analyses are presented below.

Flooding Source and Location	USGS Gage No.	Drainage Area (sq. miles)	Record (years)
West Branch DuPage River at Naperville	05540130	123.0	1
West Branch DuPage River near Warrenville	05540095	90.4	10

Winfield Creek (WBWF)

Discharges for the 10-, 2-, and 1-percent-annual-chance floods for Winfield Creek within the unincorporated areas of DuPage County were computed using the log-Pearson Type III method (Reference 29) for gaged streams. The 0.2-percent annual-chance flood discharge was estimated by straight-line extrapolation. The USGS stream gage used for the hydrologic analysis is presented in below.

Flooding Source and Location	USGS Gage No.	Drainage Area (sq. miles)	Record (years)
Winfield Creek at Winfield	05540020	6.95	15

Frequency-discharge data for the reach of Winfield Creek within the Village of Winfield were developed through the use of the Chicago Metropolitan - DuPage River Basin study performed by the USACE's Hydrologic Engineering Center (Reference 36). In the Chicago Metro Study, the DuPage River basin above Shorewood, Illinois, was divided into 29 subareas and a generalized HEC-1 rainfall-runoff computer model was calibrated for the basin (Reference 34). One-hour increments of a 24-hour storm rainfall, obtained from the U.S. Weather Bureau Technical Paper No. 40 (Reference 39), were entered into the HEC-1 model of the basin to obtain the 10-, 2-, and 1-percent-annual-chance flood peak discharges. Point rainfall-frequency curves derived from Technical Paper No. 40 were extrapolated to obtain a 500-year rainfall distribution, from which the 0.2-percent-chance flood peak discharges were computed. Winfield Creek is within one of these sub-areas. Results of the discussed method were utilized in the derivation of peak flood flows for Winfield Creek using drainage area ratio factors. Peak flows for the appropriate sub-area were reduced by the square root of the drainage area ratio. Discharges for Winfield Creek below Main Street were decreased following a reservoir routing analysis for the area between the railroad bridges and Main Street. A reservoir routing analysis was used because of the large, flat ponding area.

To be determined
Revised Countywide FIS

For the streams studied by Zone AE methods within the East Branch DuPage River watershed, Salt Creek watershed, Sawmill Creek watershed, and West Branch DuPage River watershed, hydrologic characteristics were simulated using Hydrologic Simulation Program-FORTRAN (HSPF), a continuous simulation hydrologic model. HSPF simulates hourly runoff from continuous precipitation and meteorological data using a Watershed Data Management (WDM) file for storing input and output data. The current WDM file contains detailed precipitation data, meteorological data, recorded stream flow data, and simulated runoff and streamflow throughout DuPage County. Data is available from 1948 to present.

HSPF was regionally calibrated to five streamflow gages in the three primary watersheds in DuPage County (Salt Creek, East Branch of the DuPage River, and West Branch of the DuPage River) and then verified using a separate period of record and additional streamflow gages (a total of ten gages).

Simulated runoff from the calibrated HSPF model is exported into a time series file (TSF) to be used in the Full Equations (FEQ) model. The TSF contains runoff for each of the six land cover types and for each precipitation gage used to generate the runoff. A peak-to-volume (PV) statistical procedure (PVSTATS) is then used to determine flow and stage quantiles at locations of interest along the stream channel.

The PVSTATS computer modeling software performs a statistical analysis of flood volumes rather than the discharges and stages to an extreme value distribution. The PVSTATS computer program was used to estimate the flood stage and flow quantiles at each surveyed cross-section, ponding area, and hydraulic structure face. The basic input data for PVSTATS are records of simulated flood volume, peak flow, and peak elevation from the historical and from the extreme storm series. The program fits the partial duration series of historical volumes to a statistical distribution and builds rating curves relating peak flow to flood volume and peak stage to flood volume. Thus, the estimates of flow and stage for a given quantile are computed independently of each other; therefore, peak discharges do not necessarily correspond to the maximum stage reported for the same frequency of occurrence.

Full documentation of the analyses is provided in the reports listed below. For a complete list of streams studied by Zone AE methods and included in these watershed reports see Table 5, “Limits of New or Revised Zone AE Study.”

Flooding Source	Report Title and Date
Armitage Creek (EBAR)	*Floodplain Mapping Report and Documentation for Armitage Creek,* January 31, 2013 (Reference 40)
Army Trail Road Tributary (EBAT) Swift Meadows (EBSM)	*Floodplain Mapping Report for Swift Meadows and Army Trail Road Tributaries of the East Branch DuPage River,* March 30, 2012 (Reference 41)
Crabtree Creek (EBCR)	*Flood Plain Mapping Report and Documentation for Crabtree Creek,* April 2012 (Reference 42)
East Branch DuPage River (EBEB)	*Floodplain Mapping Report and Documentation for East Branch of the DuPage River Watershed,* July 2013 (Reference 23)
East Branch Tributary No. 2 (EBE2)	*Floodplain Mapping Report and Documentation for East Branch Tributary No. 2,* October 2011 (Reference 43)
Glen Crest Creek (EBGL)	*Floodplain Mapping Report and Documentation for: Glencrest Creek Tributary to the East Branch DuPage River,* September 27, 2011 (Reference 44)
Lacey Creek (EBLA)	*Floodplain Mapping Report and Documentation for Lacey Creek,* January 31, 2013 (Reference 45)
Prentiss Creek (EBPR)	*Floodplain Mapping Report for Prentiss Creek Tributary of the East Branch DuPage River,* April 6, 2012 (Reference 46)
Rott Creek (EBRC)	*Floodplain Mapping Report and Documentation for Rott Creek*, December 14, 2012 (Reference 47)
Rott Creek (EBRC)	*Floodplain Mapping Report and Documentation for Rott Creek*, December 14, 2012 (Reference 47)
St. Joseph Creek (EBSJ)	*Floodplain Mapping Report and Documentation for St. Joseph Creek Watershed in the East Branch DuPage River Basin,* June 2012 (Reference 48)
Willoway Brook (EBWI)	*Floodplain Mapping Report and Documentation for Willoway Brook,* January 31, 2013 (Reference 49)
Bronswood Tributary (SCBW)	*Floodplain Mapping Report and Documentation for: Bronswood Creek Tributary to the Salt Creek,* June 13, 2012 (Reference 50)
Devon Avenue Tributary (SCDA)	*Floodplain Mapping Report and Documentation for Devon Avenue Tributary in the Salt Creek Watershed,* January 2012 (Reference 51)
Ginger Creek (SCGC)	*Floodplain Mapping Report and Documentation for Ginger Creek,* January 31, 2013 (Reference 52)
Oak Brook Tributary (SCOB)	*Floodplain Mapping Report and Documentation for Oak Brook Tributary in the Salt Creek Watershed,* January 2012 (Reference 53)
Spring Brook Creek (SCSB)	*Floodplain Mapping Report and Documentation: Salt Creek Spring Brook,* September 2012 (Reference 54)

Flooding Source	Report Title and Date
Salt Creek (SCSC)	*Floodplain Mapping Report and Documentation for Lower Salt Creek Watershed,* November 2011 (Reference 24)
Sugar Creek (SCSU)	*Floodplain Mapping Report and Documentation for Salt Creek Sugar Creek,* November 2011 (Reference 55)
Westwood Creek (SCWC)	*Floodplain Mapping Report and Documentation for West Creek Watershed,* August 2011(Reference 56)
Sawmill Creek (SWSW)	*Floodplain Mapping Report and Documentation for Sawmill Creek Watershed,* June 2011 (Reference 57)
Wards Creek (SWWD)	*Floodplain Mapping Report and Documentation for Wards Creek in the Sawmill Creek Watershed,* January 2012 (Reference 25)
Spring Brook No. 1 (WBSP)	*Floodplain Mapping Report and Documentation for West Branch Springbrook No. 1,* March 2012 (Reference 58)

In addition, this countywide revision incorporates studies approved through the Letter of Map Revision (LOMR) process, adding or revising in their entirety Zone AE studies for the following streams: Addison Creek, Addison Creek Tributary 4, Bensenville Ditch, Unnamed Tributary to Ferry Creek, and Winding Creek. Study information is included in Tables 5 and 7a.

A summary of the drainage area-peak discharge relationships for all the streams studied by detailed methods is shown in Table 8, “Summary of Discharges.

Table 8 - Summary of Discharges

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Des Plaines River Watershed (DP)					
Addison Creek (DPAC)					
Just upstream of County Line Road	4.8	200	307	346	*
Approximately 3,700 feet upstream of Grand Avenue	4.0	76	91	96	820
Addison Creek Tributary No. 1 (DPAC)					
At William Redmon Reservoir	0.9	54	96	122	185
Addison Creek Tributary No. 2 (DPAC)					
At South York Road	1.2	56	88	106	146
At Church Road	0.2	28	44	50	68
Addison Creek Tributary No. 3 (DPAC)					
Approximately 300 feet downstream of George Street	1.2	50	62	86	115
At Church Road	0.2	18	28	34	43
Addison Creek Tributary No. 4 (DPAC)					
Approximately 100 feet upstream of confluence with Addison Creek	1.8	708	948	1,092	*
Bensenville Ditch (DPBD)					
Just downstream of Garden Avenue	1.8	473	728	847	*
Just downstream of York Road	1.6	392	594	684	*
Just downstream of Mason Street	1.3	319	485	568	*
At Church Sreet	1.1	253	396	471	*
Des Plaines River (DPDP)					
At Will/Cook County boundary (river mile 26.75)	684	6,060	7,800	9,000	10,000
Des Plaines River Reach No. 7 (DPDP)					
At confluence with Des Plaines River	1.1	241	427	559	960
59th Street Ditch (DPFC)					
At County Line Road	0.5	112	183	212	293
63rd Street Ditch (DPFC)					
At confluence with Flagg Creek (in Cook County)	4.9	710	1,130	1,330	1,850
At County Line Road	3.7	565	900	1,070	1,490
At Madison Street	2.2	390	620	729	1,010
At Lake Hinsdale	0.6	185	295	349	490

*Data not available

Table 8 - Summary of Discharges - continued

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Des Plaines River Watershed (DP) - continued					
79th Street Ditch (DPFC)					
At County Line Road	1.0	91	141	165	226
At 79th Street	0.9	77	118	140	190
At Hamilton Avenue	0.8	57	90	105	145
Flagg Creek (DPFC)					
At confluence with Des Plaines River	18.1	1,660	2,650	3,180	4,500
Approximately 600 feet upstream of 79th Street Ditch	15.3	1,420	2,300	2,720	3,850
At State Route 83	1.4	202	321	380	530
At Eastern Avenue	0.4	101	160	190	265
Plainfield Road Ditch (DPFC)					
At confluence with Flagg Creek (in Cook County)	1.1	197	310	367	510
At County Line Road	1.0	141	223	262	365
North Unnamed Creek (DPWL)					
At York Road	3.5	717	1,264	1,576	2,479
At downstream end of culvert	0.8	198	345	439	688
South Unnamed Creek (DPWL)					
At York Road	1.7	426	736	915	1,421
At Fairway Drive	1.1	202	346	429	693
DuPage River Watershed (DU)					
Spring Brook No. 2 (DUSG)					
87th Street (river mile 2,781)	9.9	545	825	960	1,290
75th Street	3.0	165	328	433	719
Oakton Lane	2.5	134	269	351	755
Oswego Road	1.8	104	141	190	473
Upstream of the Carol Acres Weir	0.8	32	42	48	118
East Branch DuPage River Watershed (EB)					
Armitage Creek (EBAR)					
1,300 feet above confluence	2.1	566	1,039	1,305	2,137
Armitage Fork (EBAR)					
At confluence with Armitage Creek	0.7	187	372	480	819
Army Trail Road Tributary (EBAT)					
Just upstream of Valley View Road	0.4	95	210	280	526
Crabtree Creek (EBCR)					
Just upstream of Illinois Route 53	1.5	476	866	1,085	1,756

Table 8 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
East Branch DuPage River Watershed (EB) - continued					
East Branch Tributary No. 1 (EBE1)					
At confluence with East Branch DuPage River	0.4	85	155	210	330
East Branch Tributary No. 2 (EBE2)					
430 feet above confluence with East Branch DuPage River	1.2	437	762	898	1,219
Southwest Tributary (EBE2)					
485 feet above confluence with East Branch Tributary No. 2	0.4	51.0	63.0	67.0	77.0
St. Procopius Creek (EBE6)					
Approximately 600 feet downstream of Mill Bridge Lane	0.7	170	265	320	440
East Branch Tributary No. 7 (EBE7)					
At confluence with East Branch DuPage River	0.7	180	330	425	650
East Branch DuPage River (EBEB)					
Just upstream of the DuPage County line	73.9	2,372	3,438	3,950	5,319
Just above confluence with Crabtree Creek	69.9	2,380	3,419	3,896	5,104
Just downstream of Hobson Road	66.9	893 [1]	948 [1]	968 [1]	1,011 [1]
Just downstream of Short Street	55.9	2,190	3,535	4,196	6,002
Just downstream of confluence with St. Joseph Creek	49.4	1,520	2,594	3,156	4,807
Just upstream of confluence with Willoway Brook	32.9	1,419	2,623	3,277	5,271
Just downstream of confluence with Lacey Creek	30.3	1,241	2,234 [2]	2,699 [2]	3,955 [2]
Near gage at Illinois Route 56	25.5	1,238	2,246	2,729	4,058
Just downstream of confluence with Glen Crest Creek	23.8	1,063	1,976	2,392	3,500
Just downstream of Illinois Prairie Path	11.0	745	1,190	1,384	1,873
Just upstream of Armitage Creek	6.5	320 [2]	498 [2]	600 [2]	922 [2]
Just downstream of Army Trail Road	4.0	349	574	685	994
East Branch Tributary No. 14 (EBEB)					
At confluence with East Branch DuPage River	0.3	130	245	325	600
Upstream of River Drive	0.3	129	225	281	426
Above Winchester Avenue	0.1	85	155	210	385

[1]Decrease in discharge due to floodplain storage and offline reservoir
[2]Decrease in discharge due to offline reservoir

Table 8 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
East Branch DuPage River Watershed (EB) - continued					
Glen Crest Creek (EBGL)					
375 feet above confluence with East Branch DuPage River	2.7	436	672	768	993
Lacey Creek (EBLA)					
Just upstream of Interstate 88	3.2	121	180	208	281
Tributary A (EBLA)					
560 feet above confluence with Lacey Creek	0.5	81	151	192	317
Tributary B (EBLA)					
360 feet above confluence with Lacey Creek	0.2	50	84	103	160
Tributary C (EBLA)					
1,000 feet above confluence with Lacey Creek	0.2	75	121	145	215
Prentiss Creek (EBPR)					
Just upstream of Illinois Route 53	6.7	848	1,646	2,089	3,364
Prentiss Creek Reach No. 4 (EBPR)					
Just above confluence with Prentiss Creek	0.5	105	204	263	451
Prentiss Creek Reach No. 7 (EBPR)					
Just above confluence with Prentiss Creek	0.9	114	199	244	372
Rott Creek (EBRC)					
Just upstream of Varsity Drive	6.0	395	697	871	1,349
Northeast Tributary (EBSJ)					
Just above confluence with St. Joseph Creek	1.3	269	533	688	1,187
Southeast Tributary (EBSJ)					
Just above confluence with St. Joseph Creek	0.3	24	113	147	215
Southwest Tributary (EBSJ)					
Just above confluence with St. Joseph Creek	0.7	58	103	122	165
St. Joseph Creek (EBSJ)					
Just above confluence with East Branch DuPage River, upstream of Main Street	11.1	1,184	2,007	2,480	3,914
St. Joseph Creek Reach No. 2 (EBSJ)					
100 feet upstream of confluence with St. Joseph Creek	0.2	51	99	122	192

Table 8 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
East Branch DuPage River Watershed (EB) - continued					
St. Joseph Creek Reach No. 3 (EBSJ)					
At railroad	0.5	145	230	275	385
At Ogden Avenue	0.2	90	145	175	245
St. Joseph Creek Reach No. 11 (EBSJ)					
Just above confluence with St. Joseph Creek	1.1	76	88	94	109
Swift Meadows (EBSM)					
1,900 feet above confluence with East Branch DuPage River	0.8	91	220	292	497
Swift Meadows Reach No. 2 (EBSM)					
2,560 feet above confluence with Swift Meadows	0.1	23	54	73	138
Swift Meadows Reach No. 4 (EBSM)					
4,580 feet above confluence with Swift Meadows	0.2	4.9	81	101	159
22nd Street Tributary (EBTS)					
At confluence with East Branch DuPage River	0.9	235	340	390	605
At Finley Road	0.5	175	254	291	451
Willoway Brook (EBWI)					
1,400 feet above confluence with East Branch DuPage River	4.5	212	435	553	890
Willoway Brook Reach No. 2 (EBWI)					
Just above confluence with Willoway Brook	0.2	26	65	84	126
Willoway Brook Reach No. 4 (EBWI)					
Just above confluence with Willoway Brook	0.2	49	82	99	156
Fox River Watershed (FR)					
Brewster Creek (FRBC)					
Just downstream of railroad (at river mile 4.16 / 21,965 feet)	2.9	94	111	119	393
Norton Creek (FRNC)					
At Dunham Road (in Kane County)	4.8	438	665	771	1,038
Upstream of confluence of Norton Creek Tributary	3.5	365	555	645	870

Table 8 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Fox River Watershed (FR) - continued					
Norton Creek Tributary (FRNC)					
At confluence with Norton Creek	1.8	365	555	645	870
Waubansee Creek (FRWA)					
Just upstream of Meridian Parkway	1.9	*	*	521	*
Salt Creek Watershed (SC)					
Brittwood Creek Tributary (SCBW)					
Just above confluence with North Branch	0.1	20	48	61	95
Bronswood Tributary (SCBW)					
Just above confluence with Salt Creek	3.3	390	739	937	1,521
North Branch (SCBW)					
Just above confluence with Bronswood Tributary	0.7	153	287	360	565
South Branch (SCBW)					
Just above confluence Bronswood Tributary	0.6	112	234	292	431
Devon Avenue Tributary (SCDA)					
755 feet above confluence with Salt Creek	3.2	118	187	334	1,103
South Branch - Tributary No. 3 (SCDA)					
3,730 feet above confluence with Devon Avenue Tributary	0.7	12	20	16	74
Briarwood Ditch Tributary (SCGC)					
300 feet above confluence with Ginger Creek	0.2	156	303	386	636
Ginger Creek (SCGC)					
Just above confluence with Salt Creek	5.4	439	1,137	1,523	2,552
Ginger Creek Reach No. 8 (SCGC)					
Just above confluence with Lombard Tributary	0.1	2.5	4.0	5.3	12.2
Heritage Oaks Tributary (SCGC)					
Just above confluence with Ginger Creek	0.4	33.9	70.7	98.6	196

*Data not available

Table 8 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Salt Creek Watershed (SC) - continued					
Lombard Tributary (SCGC)					
Just above confluence with Ginger Creek	0.4	186	305	359	493
Mays Lake Tributary (SCGC)					
1,370 feet above confluence with Ginger Creek	0.5	65	123	156	257
McDonald Tributary (SCGC)					
400 feet above confluence with Ginger Creek	0.1	36	85	113	186
Midwest Club Tributary (SCGC)					
Just above confluence with Ginger Creek	0.5	73	149	191	313
Oak Brook Tributary (SCOB)					
Just above confluence with Salt Creek	1.2	337	638	803	1,276
Meacham Creek (SCSB)					
Just upstream of golf course service road	4.6	370	794	1,008	1,552
Meacham Creek Tributary No. 1 (SCSB)					
1,875 feet above confluence with Meacham Creek	2.1	444	888	1,141	1,879
Spring Brook Creek (SCSB)					
655 feet above confluence with Salt Creek	14.8	399	765	1,024	2,012
Spring Brook Tributary No. 1 (SCSB)					
1,115 feet above confluence with Spring Brook Creek	0.9	202	312	359	464
Salt Creek (SCSC)					
At Interstate 294	62.2	2,903	4,193	4,782	6,230
Just above confluence with Bronswood Tributary	57.3	2,703	3,868	4,392	5,665
Just above confluence with Ginger Creek	51.7	2,700	3,858	4,377	5,636
Just above confluence with Oak Brook Tributary	48.1	2,288	3,092	3,431	4,214
At Roosevelt Road	47.9	2,289	3,089	3,427	4,211
Just above confluence with Sugar Creek	41.5	1,711	2,151 [1]	2,323 [1]	2,699 [1]
At North Avenue	33.7	1,527	2,258	2,617	3,637
At Lake Street	29.8	1,361 [1]	1,647 [1]	1,768 [1]	2,085 [1]
Just above confluence with Westwood Creek	24.5	1,525 [2]	2,291 [2]	2,696 [2]	3,978 [2]

[1]Decrease in discharge due to offline reservoir
[2]Decrease in discharge due to floodplain storage

Table 8 - Summary of Discharges - continued

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Salt Creek Watershed (SC) - continued					
Salt Creek (SCSC) - continued					
Just above confluence with Spring Brook Creek	6.1	1,555 [1]	2,467 [1]	2,961 [1]	4,538 [1]
Just above confluence with Devon Avenue Tributary	2.3	1,624	2,604	3,160	4,980
At Devon Avenue	2.3	1,524	2,462	2,999	4,764
Sugar Creek (SCSU)					
Just above confluence with Salt Creek	4.1	451	900	1,132	1,764
Sugary Creek Tributary No. 2 (SCSU)					
Just above confluence with Sugar Creek	0.3	152	281	351	550
Sugar Creek Tributary No. 3 (SCSU)					
Just above confluence with Sugar Creek	0.4	54	87	102	137
Sugar Creek Tributary No. 4 (SCSU)					
Just above confluence with Sugar Creek	0.2	90	195	256	435
Community Pond Tributary (SCWC)					
Just above confluence with Westwood Creek	1.5	290	551	687	1,063
Westwood Creek (SCWC)					
Just above confluence with Salt Creek	6.0	643	1,113	1,323	1,822
Westwood Creek Reach No. 6 (SCWC)					
Just above confluence with Community Pond Tributary	0.1	131	180	201	246
Sawmill Creek Watershed (SW)					
Argonne Tributary (SWSW)					
360 feet above confluence with Wards Creek	0.4	237	466	583	914
Freund Brook (SWSW)					
Above confluence with Sawmill Creek	1.1	232	431	532	819
Sawmill Creek (SWSW)					
Just above confluence with Des Plaines River	9.5	1,615	2,777	3,362	5,041

[1]Decrease in discharge due to offline reservoir

Table 8 - Summary of Discharges - continued

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Sawmill Creek Watershed (SW) - continued					
Sawmill Creek Reach No. 3 (SWSW) Just above confluence with Sawmill Creek	2.4	670	957	1,048	1,295
Sawmill Creek Reach No. 4 (SWSW) 360 feet above confluence with Sawmill Creek Reach No. 3	0.4	200	386	481	737
Sawmill Creek Reach No. 8 (SWSW) Just above confluence with Wards Creek	0.7	223	401	488	718
Sawmill Creek Reach No. 10 (SWSW) Just above confluence with Sawmill Creek	0.4	101	194	237	366
Wards Creek (SWSW) Just above confluence with Sawmill Creek	1.4	440	982	982	1,597
Wards Creek (SWWD) Just upstream of Interstate 55	3.1	208	410	519	853
Wards Creek Reach No. 2 (SWWD) Just above confluence with Wards Creek	0.4	58	92	109	161
West Branch DuPage River Watershed (WB)					
Cress Creek (WBCC) At confluence with West Branch DuPage River	1.5	325	575	740	1,430
Ferry Creek (WBFE) At confluence with West Branch DuPage River	8.6	380	540	615	805
Ferry Creek Tributary No. 1 (WBFE) At confluence with Ferry Creek	2.4	150	265	300	390
Unnamed Tributary to Ferry Creek (WBFE) Just downstream of railroad	0.9	140	271	327	*

*Data not available

Table 8 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
West Branch DuPage River Watershed (WB) - continued					
South of Foxcroft Road Tributary (WBFX)					
At confluence with West Branch DuPage River	1.3	80 [1]	225 [1]	295 [1]	505 [1]
Approximately 80 feet downstream of Ring Road	0.6	25 [1]	125 [1]	170 [1]	320 [1]
South of Foxcroft Road Tributary Reach No. 2 (WBFX)					
At confluence with West Branch DuPage River	0.3	185	250	285	380
Approximately 1,000 feet downstream of 87th Street	0.2	85.0	150	185	280
Klein Creek (WBKC)					
Downstream of Thunderbird Trail	6.4	455	592	655	947
Approximately 1,000 feet upstream of Dam "A"	4.9	400	542	619	817
Klein Creek Tributary No. 1 (WBKC)					
At confluence with Klein Creek	1.1	33	60	95	240
Klein Creek Tributary No. 2 (WBKC)					
At confluence with Klein Creek	1.2	220	300	355	515
Klein Creek Tributary No. 3 (WBKC)					
At confluence with Klein Creek	0.8	140	*	208	*
Kress Creek (WBKR)					
At confluence with West Branch DuPage River	18.3	760	1,060	1,170	1,470
At Town Road	14.8	655	915	1,000	1,270
Approximately 200 feet upstream of Road A (river mile 3.1)	12.3	580	810	890	1,125
At Roosevelt Road (State Highway 38)	10.1	510	710	780	985
At Indian Boundary Road	5.4	365	510	560	705
At Hawthorne Lane	4.2	330	460	505	635
Approximately 4,400 feet upstream of Harvester Road (river mile 7.66)	1.5	40	45	52	63

[1] Decrease due to interbasin flow
*Data not available

Table 8 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
West Branch DuPage River Watershed (WB) - continued					
Kress Creek Reach No. 2 (WBKR)					
At confluence with Kress Creek	1.0	9	135	155	195
Spring Brook No. 1 (WBSP)					
Just above confluence with West Branch DuPage River	7.7	759	1,438	1,760	2,481
Steeple Run Tributary (WBSR)					
Just downstream of Loomis Street	2.7	95	301	415	887
Steeple Run Tributary Reach No. 3 (WBSR)					
1,100 feet above confluence with Steeple Run Tributary	0.4	125	315	421	708
West Branch Tributary No. 1 (WBW1)					
Just upstream of Forest Preserve Road	1.4	65	140	190	305
West Branch Tributary No. 2 (WBW2)					
At confluence with West Branch DuPage River	3.7	278	390	430	569
West Branch Tributary No. 3 (WBW3)					
At confluence with West Branch DuPage River	1.3	190	335	430	650
West Branch Tributary No. 4 (WBW4)					
At confluence with West Branch DuPage River	2.9	275	475	590	880
West Branch Tributary No. 6 (WBW6)					
At confluence with West Branch DuPage River	0.2	155	240	285	675
West Branch Tributary No. 7 (WBW7)					
At confluence with West Branch DuPage River	0.2	55	110	150	210
West Branch Tributary No. 18 (WBWB)					
At confluence with West Branch DuPage River	0.1	35	*	95	*

*Data not available

Table 8 - Summary of Discharges (continued)

Flooding Source and Location	Drainage Area (square miles)	Peak Discharges (cubic feet per second) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
West Branch DuPage River Watershed (WB) - continued					
West Branch DuPage River (WBWB)					
At DuPage-Will County line	123	3,510	4,920	5,600	7,500
At Hillside Road	107	3,075	4,000	4,400	5,250
At Ogden Avenue	105	2,880	3,740	3,960	5,000
Upstream of Fawell Dam	100	2,900	4,100	4,600	5,850
At confluence with Kress Creek	80.3	2,460	3,460	3,850	4,900
At Roosevelt Road	58.5	1,700	2,400	2,700	3,550
At North Avenue	28.5	970	1,360	1,540	1,980
Near County Farm Road in Hanover Park	16.4	730	1,010	1,160	1,460
At Lake Street	10.1	600	830	930	1,170
At Irving Park Road	4.7	335	460	505	640
Winfield Creek (WBWF)					
At Roosevelt and Shaffner Road	7.0	430	585	655	935
At Beverly Street	6.4	340	450	510	710
At railroad	5.6	225	290	320	425
At low flow dam (at mile 4.60)	4.3	320	430	490	695
At Main Street	3.7	370	510	590	855
At Geneva Road	2.9	330	455	530	760
Winding Creek (WBWG)					
At confluence with West Branch DuPage River	1.5	126	206	288	569
Approximately 850 feet upstream of Verdin Lane	0.9	83	128	138	468
Approximately 3,000 feet downstream of Modaff Road	0.8	65	119	119	417

Stillwater elevations determined for flooding sources studied by Zone AE methods are summarized in Table 9, "Summary of Stillwater Elevations."

New or revised stillwater areas analyzed for this countywide FIS were modeled as level pool reservoirs in the FEQ model.

Table 9 - Summary of Stillwater Elevations

Location at Flooding Source	Elevation (feet NAVD 88) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Addison Creek (DPAC)				
At William Redmond Reservoir	647.2	656.3	656.7	657.7
Des Plaines River Reach No. 7 (DPDP)				
At Timberlake	*	*	707.4	*
Plainfield Road Ditch (DPFC)				
At Pond 1	705.2	705.4	705.5	705.7
Spring Brook Creek No. 2 (DUSG)				
At Carol Acres Lake System	686.1	688.7	689.7	690.5
Armitage Creek (EBAR)				
At Glen Point Business Park	781.9	783.6	784.1	784.9
At Polo Club Pond	*	*	760.3	760.8
At Polo Drive North	*	*	746.9	747.4
Army Trail Road Tributary (EBAT)				
At upstream Army Trail Road Ponding Area	718.2	719.0	719.4	720.3
East Branch Tributary No.2 (EBE2)				
At James Court Detention Pond	*	*	728.5	*
Southwest Tributary (EBE2)				
At Denby Pond	756.4	757.2	757.6	758.3
At upstream of Prairie Avenue Ponding Area (West)	753.3	754.5	754.9	755.8
East Branch DuPage River (EBEB)				
At Broadview Slough	*	*	706.4	*
At Forest Preserve Pond	*	*	710.8	*
At Glen Oaks (North, South, and Central)	*	*	687.0	*
At Lake View Terrace and Park Boulevard Ponding Area	*	*	767.0	*
At Lombard Lagoons	*	*	687.8	*
At Lake Ellyn	713.6	714.2	714.4	714.8
At Tollway Pond	*	*	710.9	*
Glen Crest Creek (EBGL)				
At Lambert Lake	752.4	754.1	754.5	755.0
At Manor Woods	750.7	751.7	752.1	753.1
At Village Links Golf Course	742.9	744.7	745.7	748.0
At Greenfield Avenue and Regent Street Ponding Area 1	*	*	761.4	*
At Greenfield Avenue and Regent Street Ponding Area 2	*	*	761.4	*

* Data not available

Table 9 - Summary of Stillwater Elevations - continued

Location at Flooding Source	Elevation (feet NAVD 88) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Glen Crest Creek Reach No.2 (EBGL)				
At Panfish Park	748.9	750.3	751.1	752.8
Lacey Creek (EBLA)				
At Pond No. 1 - South of 35th Street	714.3	717.0	717.8	718.6
Tributary A (EBLA)				
At Sterling Road Ponding Area 1	*	*	724.5	725.1
At Sterling Road Ponding Area 2	*	*	724.5	725.1
At Sterling Road Ponding Area 3	*	*	724.5	725.1
Prentiss Creek (EBPR)				
At Valley SWMF	749.7	750.8	751.3	753.7
Prentiss Creek Reach No. 7 (EBPR)				
At Brook Bank Basin	736.1	739.1	740.7	745.3
At Carol Street Basin	737.7	738.9	739.4	740.3
Prentiss Creek Reach No. 8 (EBPR)				
At Dunham Park SWMF	749.3	752.6	753.9	756.6
Rott Creek (EBRC)				
Lower Rott Creek Watershed				
At South Comp Basin	708.3	710.4	711.3	713.5
At West Detention Basin	706.8	708.2	708.9	710.6
At Wetland west of Steeple Chase Detention Pond	712.2	713.2	713.6	714.7
Upper Rott Creek Watershed				
At Arrowhead East Wetland	737.5	738.3	739.0	740.0
At Bell Pond North	733.5	*	735.3	736.3
At Bell Pond South	733.5	*	735.3	736.3
At Hesterman Drain Area 2	*	*	740.3	741.3
At Hesterman Drain Area 3	739.1	*	740.4	741.4
At Hesterman Drain Area 4	737.6	*	739.5	740.5
At Hesterman Drain Area 5A	738.4	739.5	739.5	740.5
At Hesterman Drain Area 5B - North	735.4	736.6	737.4	738.4
At Hesterman Drain Area 5B - South	735.4	736.6	737.4	738.4
At Hesterman Drain Area 7	742.7	745.0	745.3	746.3
St. Joseph Creek (EBSJ)				
At Williams Port Pond	736.5	738.3	738.9	739.9
St Joseph Creek Reach No. 11 (EBSJ)				
At Prince Pond	*	*	710.3	*
At Rogers Street Ponding Area	*	*	710.3	*
At Warren Avenue Ponding Area	*	*	710.3	*
Swift Meadows (EBSM)				
At Meadows Business Park	727.0	728.0	728.4	729.2

*Data not available

Table 9 - Summary of Stillwater Elevations - continued

Location at Flooding Source	Elevation (feet NAVD 88) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Swift Meadows Reach No. 2 (EBSM)				
At Chateau Medinah	734.8	735.0	735.1	735.3
At Medinah Meadows	736.4	737.4	737.9	739.2
At Vittoria Brooks	733.8	733.9	734.0	734.0
At Willow Bridge	737.7	737.9	738.0	738.1
Waubansee Creek (FRWA)				
At Lake #4: Along Waubansee Creek from just north of Liberty Road to just south of Meridian Parkway	*	*	693.8	*
At Lake #5: Along Waubansee Creek from just north of Meridian Parkway to approximately 1,900 feet upstream of Meridian Parkway	*	*	695.7	*
North Branch (SCBW)				
At Lake Charles	722.0	723.8	724.2	724.9
Devon Avenue Tributary (SCDA)				
At Midas Pond (North)	678.7	679.4	685.1	685.6
At Midas Pond (South)	678.7	679.4	685.1	685.6
South Branch Tributary No. 3 (SCDA)				
At Happy Acres Pond	692.6	692.8	693.0	693.4
At Wetland Between Willow Court and Bryn Mawr Avenue	692.6	692.8	693.0	693.4
Ginger Creek (SCGC)				
At 31st Street Wetland	701.0	701.3	701.5	701.8
Ginger Creek Reach No. 8 (SCGC)				
At Fountain Square Pond East	716.5	718.2	719.1	719.6
At Fountain Square Pond West	716.5	718.2	719.1	719.6
At Tower Apartments Detention	716.5	718.2	719.1	719.6
Heritage Oaks Tributary (SCGC)				
At Heritage Oaks Detention	705.7	706.7	707.0	707.6
Lombard Tributary (SCGC)				
At Lombard Wetland	721.8	723.4	724.1	726.1
At Midcon Pond	724.7	725.5	725.9	726.7
Mays Lake Tributary (SCGC)				
At Mays Lake I	717.2	717.6	717.7	718.0
At Mays Lake II	701.9	702.8	703.2	703.8
McDonald Tributary (SCGC)				
At McDonald's Detention	663.4	665.3	666.1	668.0
Midwest Club Tributary (SCGC)				
At Midwest Club Pond II	702.0	704.4	705.2	706.5

*Data not available

Table 9 - Summary of Stillwater Elevations - continued

Location at Flooding Source	Elevation (feet NAVD 88) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Oak Brook Tributary (SCOB)				
At Yelenich Private Pond	715.6	716.9	717.4	718.7
Spring Brook Creek (SCSB)				
At Lake Street Reservoir	688.7	696.3	698.8	703.9
At Lakeview Pond	701.7	703.0	703.4	704.5
At Meacham Grove Reservoir	712.1	721.5	722.3	723.8
Spring Brook Reach No. 18 (SCSB)				
At Springfield Park	768.7	771.4	772.8	777.0
Spring Brook Tributary No. 1 (SCSB)				
At SB-1 Wetland Central	764.1	765.1	765.5	766.3
At SB-1 Wetland West	764.1	765.1	765.5	766.3
At SB-1 Wetland East	764.1	765.1	765.5	766.3
At Tributary No. 2 Wetland	732.6	733.4	733.5	733.7
Salt Creek (SCSC)				
At Unnamed Pond - North of Butterfield Road	*	*	661.0	*
At Unnamed Pond - North of Surf Street	*	*	665.5	*
At Unnamed Pond - North of Van Buren	*	*	660.9	*
Sugar Creek Tributary No. 1 (SCSU)				
At Lufkin Pond	673.8	674.5	674.8	675.2
At Storage downstream of Cornell Parkway	665.0	667.0	668.0	670.9
At Storage upstream of Cornell Parkway	666.7	670.1	671.6	675.2
Sugar Creek Tributary No. 3 (SCSU)				
At Montini Park Pond	714.0	715.3	715.5	715.8
Argonne Tributary (SWSW)				
At Argonne Tributary Headwaters Pond	726.0	728.0	728.9	730.8
Freund Brook (SWSW)				
At Ponding area north of Westgate Road	745.8	746.4	746.6	747.2
Sawmill Creek Reach No. 4 (SWSW)				
At Detention upstream of Cass Avenue	735.4	737.8	738.7	740.7
Sawmill Creek Reach No. 10 (SWSW)				
At Crest Road Basin	720.7	722.1	722.3	722.6
Wards Creek (SWWD)				
At Carriage Green Country Club Lake	*	*	716.6	*
At Donut Lake	*	*	743.9	744.5
At Lyman Avenue Basin	757.5	759.3	759.9	761.2
At Lake Brookeridge	*	*	743.1	*
At Tara Hill Storage	713.6	714.5	714.6	714.9

*Data not available

Table 9 - Summary of Stillwater Elevations - continued

Location at Flooding Source	Elevation (feet NAVD 88) 10-Percent-Annual-Chance	2-Percent-Annual-Chance	1-Percent-Annual-Chance	0.2-Percent-Annual-Chance
Klein Creek (WBKC)				
At Pond A	*	*	744.7	*
At Pond B	*	*	749.7	*
At Pond C	*	*	750.7	*
At Pond D	*	*	755.7	*
At Pond E	*	*	756.7	*
At Pond F	*	*	758.7	*
At Pond G	*	*	759.7	*
At Pond H	*	*	767.7	*
At Pond I	*	*	768.7	*
Spring Brook No. 1 (WBSP)				
At Billy Graham Parking Lot Ponding Area	740.2	742.9	743.9	746.2
At Crescent/Chase Ponding Area	745.3	745.7	745.8	746.2
At Glencoe/College Ponding Area	755.1	756.1	756.6	757.7
Hoffman Park Ponding Area	748.3	748.9	749.4	755.8
At Hubble Middle School Athletic Field Ponding Area	730.9	732.2	733.2	735.5
At Main/Park Ponding Area	730.8	732.3	733.3	734.6
At Metra Station Ponding Area	747.3	749.2	750.1	751.9
At Naperville/Willow Ponding Area	736.5	737.3	737.6	738.2
At Pick/College Ponding Area	754.3	755.6	756.2	757.6
At Triangle Park Ponding Area	745.3	747.3	749.4	755.8
Steeple Run (WBSR)				
At Century Hill West	723.7	724.1	724.2	724.4
At Century Hill North	713.0	714.7	715.7	717.6
At Detention Area West of Frances Court	704.1	705.1	705.2	705.3
At Pheasant Glen Detention	707.0	707.5	707.7	708.1
At Steeple Run Central	716.3	718.9	720.3	724.3
At Steeple Run North	714.4	715.4	715.8	717.6
At Steeple Run South	720.3	720.8	721.0	721.4
At Steeple Run West	713.0	714.7	715.7	717.6
At Storage Area at Avon Court	722.3	724.2	724.4	724.9
At Storage Area at Lakewood Drive	721.6	723.9	724.4	724.9
At Storage South of Maple Avenue	726.1	727.3	727.9	729.3
Steeple Run Tributary Reach No. 3 (WBSR)				
At Huntington Commons North	735.8	736.0	736.2	736.4
At Huntington Commons South	737.2	738.8	739.4	741.3
At Naperville Country Club East	724.6	725.3	725.6	726.1
At Naperville Country Club West	724.6	725.3	725.6	726.1

*Data not available

3.2 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.

Hydraulic analyses that have not been superseded have been compiled and are summarized below.

Pre-Countywide FIS

Des Plaines River Watershed (DP)

Addison Creek Tributaries 1, 2 and 3 (DPAC)

Starting water-surface elevations for Addison Creek Tributaries No. 1, 2, and 3 were determined using the slope-area method. Water-surface profiles were determined for the 10-, 2-, 1-, and 0.2-percent-chance floods using the WSP-2 computer program (Reference 59).

Des Plaines River (DPDP)

Starting water-surface elevations were determined using normal depth computations and rating curves. The water-surface elevations for floods of the selected recurrence intervals on the Des Plaines River were computed using the USACE HEC-2 step-backwater computer program (Reference 60).

Des Plaines River Reach No. 7 (DPDP)

Starting water-surface elevations for Des Plaines River Reach No. 7 (formerly Sawmill Creek Tributary No. 3) were determined using corresponding flood elevations on the main stem, normal depth computations, and rating curves. Water

surface elevations were modeled utilizing the SCS WSP-2 program (Reference 61).

Flagg Creek and Tributaries (DPFC)

The starting water-surface elevation for Flagg Creek was the 10-percent-annual-chance flood elevation for the Des Plaines River (Reference 62). Critical depth was used for the starting water-surface elevation for 63rd Street Ditch. 79th Street Ditch used the backwater for Tributary C. The starting water-surface elevation for Plainfield Road Ditch was obtained for the Indian Head Park FIS (Reference 63).

For Flagg Creek, 59th Street Ditch, 63rd Street Ditch, 79th Street Ditch, and Plainfield Road Ditch, water-surface elevations for floods of selected recurrence intervals were computed using the SCS WSP-2 step-backwater program (Reference 59). Mathematical relationships used in the program include the standard step-backwater procedure that estimates total energy at each cross section and accounts for frictions losses between sections using Manning's formula. The model requires discharge, cross-section geometry, bridge geometry, starting water surface elevation, and roughness data to simulate flood flow conditions.

North Unnamed Creek and South Unnamed Creek (DPWL)

Water-surface elevations for floods of the selected recurrence intervals for North Unnamed Creek and South Unnamed Creek were computed using the HEC-2 step-backwater computer program (Reference 64). Starting water-surface elevations were determined by performing a routing at restrictive culverts that cause ponding at York Road and the railroad embankment. The ponding area is just east of the study area.

DuPage River Watershed (DU)

Spring Brook No. 2 (DUSG)

For Spring Brook No. 2 within the unincorporated areas of DuPage County, starting water-surface elevations were determined using corresponding flood elevations on the main stem, normal depth computations, and rating curves. Water surface elevations were modeled utilizing the SCS WSP-2 program (Reference 61).

East Branch DuPage River Watershed (EB)

East Branch Tributary No. 1 (EBE1)

Starting water-surface elevations for East Branch Tributary No. 1 were determined using corresponding flood elevations on the main stem, normal depth

computations, and rating curves. Water surface elevations were computed utilizing the USACE HEC-2 step-backwater computer program (Reference 60).

St. Procopius Creek (EBE6)

Cross sections were field surveyed. Water-surface elevations of floods of the selected recurrence intervals were computed through use of the USACE HEC-2 step-backwater computer model (Reference 60). Starting water-surface elevations were determined using the slope/area method.

East Branch Tributary No. 7 (EBE7)

Starting water-surface elevations for East Branch Tributary No. 7 were determined using corresponding flood elevations on the main stem, normal depth computations, and rating curves. Water surface elevations were computed utilizing the USACE HEC-2 step-backwater computer program (Reference 60).

East Branch Reach No. 14 (EBEB)

Cross sections for East Branch Reach No. 14 (formerly East Branch Tributary No. 3) were field surveyed. Cross sections were located at close intervals above and below bridges and culverts in order to compute the significant backwater effects of these structures. Water-surface elevations of floods of the selected recurrence intervals were computed through use of the USACE HEC-2 step-backwater computer model (Reference 60).

St. Joseph Creek Reach No. 3 (EBSJ)

Cross sections for St. Joseph Creek Reach No. 3 [formerly St. Joseph Creek Tributary 2(B)] were field surveyed. Cross sections were located at close intervals above and below bridges and culverts in order to compute the significant backwater effects of these structures.

Water-surface elevations of floods of the selected recurrence intervals were computed using the USACE HEC-2 step-backwater computer model (Reference 60). Starting water-surface elevations were calculated using the slope/area method.

22nd Street Tributary (EBTS)

Starting water-surface elevations for 22nd Street Tributary (formerly Unnamed Stream North of 22nd Street) were calculated using the slope/area method. Water-surface profiles were developed using a HEC-2 computer step-backwater model (Reference 60). Profiles were determined for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods. Flood elevations for the 22nd Street Tributary may be raised by debris blockage of bridges or culverts.

Fox River Watershed (FR)

Brewster Creek (FRBC)

Cross section data were obtained by field measurement. All bridges and culverts were surveyed to obtain elevation data and structural geometry. Starting water-surface elevations were calculated using the slope/area method. Water-surface profiles were developed using the USACE HEC-2 step-backwater computer model (Reference 60).

Norton Creek and Norton Creek Tributary (FRNC)

Cross sections for the backwater analyses of Norton Creek and Norton Creek Tributary were determined from field surveys with some overbank cross sections being determined from topographic maps at a scale of 1:4,800, with a contour interval of four feet (Reference 65). Cross-section locations were at close intervals above and below bridges, dams, and culverts in order to compute the significant backwater effects of these structures.

The starting downstream water-surface elevations were computed by the normal depth methods. Water-surface elevations of floods of the selected recurrence intervals on Norton Creek and Norton Creek Tributary were computed through use of the USACE HEC-2 step-backwater computer program (Reference 66).

Waubansee Creek (FRWA)

Cross section data for Waubansee Creek were field surveyed. The 1-percent-annual-chance water-surface elevation was calculated using the USACE HEC-2 step-backwater program (U.S. Department of Agriculture, 1965). Starting water-surface elevations for Waubansee Creek were calculated using the slope/area method.

West Branch DuPage River Watershed (WB)

Cress Creek (WBCC)

Both overbank and channel cross sections were field surveyed. Water-surface elevations for Cress Creek were computed for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods using a HEC-2 computer step-backwater model (Reference 60). Starting water-surface elevations were calculated using the slope/area method.

Ferry Creek and Ferry Creek Tributary No. 1 (WBFE)

Water-surface elevations for Ferry Creek and Ferry Creek Tributary No. 1 were computed for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods using a HEC-2

computer step-backwater model (Reference 60). Starting water-surface elevations were calculated using the slope/area method.

South of Foxcroft Road Tributary and South of Foxcroft Road Tributary Reach No. 2 (WBFX)

Both overbank and channel cross sections for South of Foxcroft Road Tributary [formerly Unnamed Creek (South of 87th Street)] and South of Foxcroft Road Tributary Reach No. 2 [formerly Unnamed Creek (South of Foxcroft Road)] were field surveyed. Water-surface elevations for South of Foxcroft Road Tributary and South of Foxcroft Road Tributary Reach No. 2 were computed for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods using a HEC-2 computer step-backwater model (Reference 60). Starting water-surface elevations were calculated using the slope/area method.

Klein Creek and Tributaries (WBKC)

Cross-section data for Klein Creek, Klein Creek Tributary No. 2, and Klein Creek Tributary No. 3 were obtained by field measurement.

Water-surface elevations of floods of the selected recurrence intervals were computed using the USACE HEC-2 step-backwater computer program (Reference 60). Starting water-surface elevations were calculated using the slope/area method.

Kress Creek and Kress Creek Reach No. 2 (WBKR)

Cross-section data for part of Kress Creek and Kress Creek Reach No. 2 (formerly Unnamed Tributary to Kress Creek) were obtained by field measurement. Within the City of West Chicago, cross sections for Kress Creek up to Hawthorne Lane are identical to those used for a 1975 USACE floodplain information report (Reference 67). In addition, channel modifications to Kress Creek for a distance of 600 feet upstream of the railroad and culverts at the railroad crossing were inspected in March 1978 and incorporated into the hydraulic model.

Water-surface profiles for Kress Creek and Kress Creek Reach No. 2 were developed through use of the USACE HEC-2 step-backwater computer program (Reference 60). Starting water-surface elevations were calculated using the slope/area method.

West Branch Tributaries No. 1, 2, 3, 4, 6, 7, and 18
(WBW1), (WBW2), (WBW3), (WBW4), (WBW6), (WBW7), (WBWB)

Cross section data for West Branch Tributary No. 1, West Branch Tributary No. 2 (formerly Country Creek), West Branch Tributary No. 3, West Branch Tributary No. 4, West Branch Tributary No. 6, West Branch Tributary No. 7, and West Branch Tributary No. 18 (formerly West Branch Tributary No. 5) were obtained

by field measurement. All bridges and culverts were surveyed to obtain elevation data and structural geometry. Starting water-surface elevations were calculated using the slope/area method. Water-surface profiles were developed using the USACE HEC-2 step-backwater computer model (Reference 60).

West Branch DuPage River (WBWB)

Cross sections used for the West Branch DuPage River are identical to those used in a 1975 USACE floodplain information report (Reference 67). Channel portions of these cross sections were field surveyed while overbank portions were determined photogrammetrically.

Water-surface profiles for West Branch DuPage River were developed through use of the USACE HEC-2 step-backwater computer program (Reference 60). Starting elevations for the West Branch DuPage River were derived from a 1975 floodplain information report (Reference 67). Stream mileages for the West Branch DuPage River were obtained from the Hydrologic Investigations Atlases (Reference 38).

Winfield Creek (WBWF)

Cross section data were obtained by field measurement. All bridges and culverts were surveyed to obtain elevation data and structural geometry. Water-surface profiles for Winfield Creek were computed through use of the USACE HEC-2 step-backwater computer program (Reference 60). Starting water-surface elevations were calculated using the slope/area method.

To be determined
Revised Countywide FIS

For the streams studied by Zone AE methods within the East Branch DuPage River watershed, Salt Creek watershed, Sawmill Creek watershed, and West Branch DuPage River watershed, an unsteady-state hydraulic analysis was conducted using the continuous simulation hydraulic analysis software, Full Equations (FEQ), which simulates flow storage in detention ponds, natural storage areas, and floodplains. It also calculates the depth and discharge of flow through open channels, storm sewers, and overflow paths. FEQ and Full Equations Utilities (FEQUTL) models were used for this study. PVSTATS, a "peak-to-volume" computer modeling software program developed for use with the continuous simulation approach employed by DuPage County, was used to estimate the flood stage and flow for selected recurrence intervals.

Cross-sections were developed where possible from field survey. For extending cross-sections, Transect Manager (TM) software and digital topography were used as needed. Additional fabricated cross-sections were constructed based on nearby surveyed cross-sections with extension using TM.

Full documentation of the analyses is provided in the reports listed below. For a complete list of streams studied by Zone AE methods and included in these watershed reports, see Table 5, "Limits of New or Revised Zone AE Study."

Flooding Source	Report Title and Date
Armitage Creek (EBAR)	*Floodplain Mapping Report and Documentation for Armitage Creek,* January 31, 2013 (Reference 40)
Army Trail Road Tributary (EBAT) Swift Meadows (EBSM)	*Floodplain Mapping Report for Swift Meadows and Army Trail Road Tributaries of the East Branch DuPage River,* March 30, 2012 (Reference 41)
Crabtree Creek (EBCR)	*Flood Plain Mapping Report and Documentation for Crabtree Creek,* April 2012 (Reference 42)
East Branch DuPage River (EBEB)	*Floodplain Mapping Report and Documentation for East Branch of the DuPage River Watershed,* July 2013 (Reference 23)
East Branch Tributary No. 2 (EBE2)	*Floodplain Mapping Report and Documentation for East Branch Tributary No. 2,* October 2011 (Reference 43)
Glen Crest Creek (EBGL)	*Floodplain Mapping Report and Documentation for: Glencrest Creek Tributary to the East Branch DuPage River,* September 27, 2011 (Reference 44)
Lacey Creek (EBLA)	*Floodplain Mapping Report and Documentation for Lacey Creek,* January 31, 2013 (Reference 45)
Prentiss Creek (EBPR)	*Floodplain Mapping Report for Prentiss Creek Tributary of the East Branch DuPage River,* April 6, 2012 (Reference 46)
Rott Creek (EBRC)	*Floodplain Mapping Report and Documentation for Rott Creek,* December 14, 2012 (Reference 47)
Rott Creek (EBRC)	*Floodplain Mapping Report and Documentation for Rott Creek,* December 14, 2012 (Reference 47)
St. Joseph Creek (EBSJ)	*Floodplain Mapping Report and Documentation for St. Joseph Creek Watershed in the East Branch DuPage River Basin,* June 2012 (Reference 48)
Willoway Brook (EBWI)	*Floodplain Mapping Report and Documentation for Willoway Brook,* January 31, 2013 (Reference 49)
Bronswood Tributary (SCBW)	*Floodplain Mapping Report and Documentation for: Bronswood Creek Tributary to the Salt Creek,* June 13, 2012 (Reference 50)
Devon Avenue Tributary (SCDA)	*Floodplain Mapping Report and Documentation for Devon Avenue Tributary in the Salt Creek Watershed,* January 2012 (Reference 51)
Ginger Creek (SCGC)	*Floodplain Mapping Report and Documentation for Ginger Creek,* January 31, 2013 (Reference 52)

Flooding Source	Report Title and Date
Oak Brook Tributary (SCOB)	*Floodplain Mapping Report and Documentation for Oak Brook Tributary in the Salt Creek Watershed,* January 2012 (Reference 53)
Spring Brook Creek (SCSB)	*Floodplain Mapping Report and Documentation: Salt Creek Spring Brook,* September 2012 (Reference 54)
Salt Creek (SCSC)	*Floodplain Mapping Report and Documentation for Lower Salt Creek Watershed,* November 2011 (Reference 24)
Sugar Creek (SCSU)	*Floodplain Mapping Report and Documentation for Salt Creek Sugar Creek,* November 2011 (Reference 55)
Westwood Creek (SCWC)	*Floodplain Mapping Report and Documentation for West Creek Watershed,* August 2011(Reference 56)
Sawmill Creek (SWSW)	*Floodplain Mapping Report and Documentation for Sawmill Creek Watershed,* June 2011 (Reference 57)
Wards Creek (SWWD)	*Floodplain Mapping Report and Documentation for Wards Creek in the Sawmill Creek Watershed,* January 2012 (Reference 25)
Spring Brook No. 1 (WBSP)	*Floodplain Mapping Report and Documentation for West Branch Springbrook No. 1,* March 2012 (Reference 58)

In addition, this countywide revision incorporates studies approved through the Letter of Map Revision (LOMR) process, adding or revising in their entirety Zone AE studies for the following streams: Addison Creek, Addison Creek Tributary 4, Bensenville Ditch, Unnamed Tributary to Ferry Creek, and Winding Creek. Study information is included in Tables 5 and 7a.

The hydraulic analyses for this study were based on unobstructed flow. The flood elevations shown on the Flood Profiles (Exhibit 1) are thus considered valid only if hydraulic structures remain unobstructed, operate properly, and do not fail.

Locations of selected cross sections used in the hydraulic analyses are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 4.2), selected cross section locations are also shown on the FIRM (Exhibit 2).

Channel and overbank roughness factors (Manning's "n" values) used in the hydraulic models were chosen based on engineering judgment and field observations of the stream and floodplain areas. Table 10, "Roughness Coefficients (Manning's 'n' Values)," lists the channel and overbank roughness factors for all detailed studied streams.

Table 10 - Roughness Coefficients (Manning's "n" Values)

Stream	Channel "n"	Overbank "n"
Des Plaines River Watershed (DP)		
Addison Creek (DPAC)	0.030-0.075	0.030-0.095
Addison Creek Tributary No. 1 (DPAC)	0.030-0.075	0.030-0.095
Addison Creek Tributary No. 2 (DPAC)	0.030-0.075	0.030-0.095
Addison Creek Tributary No. 3 (DPAC)	0.030-0.075	0.030-0.095
Addison Creek Tributary No. 4 (DPAC)	0.030-0.050	0.035-0.100
Bensenville Ditch (DPBD)	0.030-0.075	0.030-0.095
Des Plaines River (DPDP)	0.030	0.060
Des Plaines River Reach No. 7 (DPDP)	0.040-0.100	0.050-0.120
59th Street Ditch (DPFC)	0.030-0.035	0.035-0.065
63rd Street Ditch (DPFC)	0.017-0.040	0.025-0.060
79th Street Ditch (DPFC)	0.048-0.055	0.032-0.085
Flagg Creek (DPFC)	0.035-0.070	0.060-0.085
Plainfield Road Ditch (DPFC)	0.035-0.050	0.030-0.090
North Unnamed Creek (DPWL)	0.030-0.075	0.030-0.095
South Unnamed Creek (DPWL)	0.030-0.075	0.030-0.095
DuPage River Watershed (DU)		
Spring Brook No. 2 (DUSG)	0.035	0.035
East Branch DuPage River Watershed (EB)		
Armitage Creek (EBAR)	0.015 - 0.042	0.015 - 0.070
Armitage Fork Tributary (EBAR)	0.015 - 0.040	0.015 - 0.045
Army Trail Road Tributary (EBAT)	0.027 - 0.039	0.015 - 0.080
Crabtree Creek (EBCR)	0.022 - 0.063	0.022 - 0.063
East Branch Tributary No. 1 (EBE1)	0.045 - 0.070	0.045- 0.080
East Branch Tributary No. 2 (EBE2)	0.035 - 0.065	0.010 - 0.100
Southwest Tributary (EBE2)	0.035 - 0.045	0.010 - 0.100
St. Procopius Creek (EBE6)	0.035 - 0.040	0.060 - 0.080
East Branch Tributary No. 7 (EBE7)	0.055 - 0.080	0.080 - 0.100
East Branch DuPage River (EBEB)	0.013 - 0.120	0.013 - 0.250
East Branch Reach No. 14 (EBEB)	0.035 - 0.040	0.060 - 0.080
Glen Crest Creek (EBGL)	0.014 - 0.100	0.010 - 0.120
Lacey Creek (EBLA)	0.010 - 0.130	0.010 - 0.130
Tributary A (EBLA)	0.010 - 0.054	0.010 - 0.090
Tributary B (EBLA)	0.035 - 0.053	0.010 - 0.075
Tributary C (EBLA)	0.035 - 0.060	0.010 - 0.070
Prentiss Creek (EBPR)	0.025 - 0.120	0.015 - 0.120
Prentiss Creek Reach No. 4 (EBPR)	0.035 - 0.040	0.035 - 0.100
Prentiss Creek Reach No. 7 (EBPR)	0.035 - 0.060	0.035 - 0.100

Table 10 - Roughness Coefficients (Manning's "n" Values) - continued

Stream	Channel "n"	Overbank "n"
East Branch DuPage River Watershed (EB) - continued		
Rott Creek (EBRC)	0.035 - 0.150	0.010 - 0.015
Northeast Tributary (EBSJ)	0.030 - 0.080	0.025 - 0.100
Southeast Tributary (EBSJ)	0.025 - 0.031	0.015 - 0.121
Southwest Tributary (EBSJ)	0.025 - 0.121	0.020 - 0.031
St. Joseph Creek (EBSJ)	0.015 - 0.101	0.015 - 0.250
St. Joseph Creek Reach No. 2 (EBSJ)	0.030 - 0.030	0.015 - 0.070
St. Joseph Creek Reach No. 3 (EBSJ)	0.035 - 0.040	0.060 - 0.080
St. Joseph Creek Reach No. 11 (EBSJ)	0.035 - 0.065	0.025 - 0.080
Swift Meadows (EBSM)	0.030 - 0.105	0.030 - 0.115
Swift Meadows Reach No. 2 (EBSM)	0.015 - 0.105	0.010 - 0.115
Swift Meadows Reach No. 4 (EBSM)	0.030 - 0.105	0.010 - 0.105
22nd Street Tributary (EBTS)	0.045 - 0.080	0.050 - 0.070
Willoway Brook (EBWI)	0.027 - 0.070	0.015 - 0.250
Willoway Brook Reach No. 2 (EBWI)	0.030 - 0.080	0.010 - 0.105
Willoway Brook Reach No. 4 (EBWI)	0.031 - 0.071	0.010 - 0.071
Fox River Watershed (FR)		
Brewster Creek (FRBC)	0.035	0.060 - 0.070
Norton Creek (FRNC)	0.045 - 0.150	0.050 - 0.150
Norton Creek Tributary (FRNC)	0.030 - 0.055	0.045 - 0.055
Waubansee Creek (FRWA)	0.035 - 0.055	0.050 - 0.070
Salt Creek Watershed (SC)		
Brittwood Creek Tributary (SCBW)	0.060 - 0.060	0.060 - 0.115
Bronswood Tributary (SCBW)	0.020 - 0.090	0.025 - 0.120
North Branch (SCBW)	0.035 - 0.095	0.030 - 0.115
South Branch (SCBW)	0.035 - 0.035	0.020 - 0.100
Devon Avenue Tributary (SCDA)	0.030 - 0.095	0.030 - 0.250
South Branch - Tributary No. 3 (SCDA)	0.045 - 0.055	0.045 - 0.055
Briarwood Ditch Tributary (SCGC)	0.039 - 0.039	0.039 - 0.250
Ginger Creek (SCGC)	0.034 - 0.150	0.015 - 0.250
Ginger Creek Reach No. 8 (SCGC)	0.045 - 0.045	0.045 - 0.045
Heritage Oaks Tributary (SCGC)	0.054 - 0.054	0.050 - 0.250
Lombard Tributary (SCGC)	0.065 - 0.075	0.015 - 0.250
Mays Lake Tributary (SCGC)	0.035 - 0.120	0.035 - 0.250
McDonald Tributary (SCGC)	*	0.035 - 0.100
Midwest Club Tributary (SCGC)	0.035 - 0.060	0.035 - 0.250
Oak Brook Tributary (SCOB)	0.035 - 0.060	0.015 - 0.150
Meacham Creek (SCSB)	0.035 - 0.070	0.035 - 0.250
Meacham Creek Tributary No. 1 (SCSB)	0.035 - 0.055	0.015 - 0.035

*Data not available

Table 10 - Roughness Coefficients (Manning's "n" Values) - continued

Stream	Channel "n"	Overbank "n"
Salt Creek Watershed (SC) - continued		
Spring Brook Creek (SCSB)	0.015 - 0.154	0.015 - 0.250
Spring Brook Tributary No. 1 (SCSB)	0.035 - 0.080	0.035 - 0.250
Salt Creek (SCSC)	0.045 - 0.100	0.015 - 0.200
Sugar Creek (SCSU)	0.022 - 0.105	0.022 - 0.120
Sugar Creek Tributary No. 2 (SCSU)	0.030 - 0.080	0.030 - 0.100
Sugar Creek Tributary No. 3 (SCSU)	0.030 - 0.055	0.030 - 0.100
Sugar Creek Tributary No. 4 (SCSU)	0.030 - 0.070	0.035 - 0.100
Community Pond Tributary (SCWC)	0.025 - 0.035	0.035 - 0.050
Westwood Creek (SCWC)	0.025 - 0.040	0.035 - 0.090
Westwood Creek Reach No. 6 (SCWC)	0.025 - 0.035	0.035 - 0.040
Sawmill Creek Watershed (SWSW)		
Argonne Tributary (SWSW)	0.035 - 0.095	0.025 - 0.120
Freund Brook (SWSW)	0.034 - 0.100	0.034 - 0.150
Sawmill Creek (SWSW)	0.015 - 0.100	0.013 - 0.101
Sawmill Creek Reach No. 3 (SWSW)	0.030 - 0.080	0.015 - 0.150
Sawmill Creek Reach No. 4 (SWSW)	0.030 - 0.081	0.020 - 0.101
Sawmill Creek Reach No. 8 (SWSW)	0.035 - 0.100	0.035 - 0.151
Sawmill Creek Reach No. 10 (SWSW)	0.030 - 0.031	0.013 - 0.100
Wards Creek (SWSW)	0.040 - 0.120	0.040 - 0.150
Wards Creek (SWWD)	0.035 - 0.095	0.013 - 0.100
Wards Creek Reach No. 2 (SWWD)	0.040 - 0.100	0.025 - 0.100
West Branch DuPage River Watershed (WBWB)		
Cress Creek (WBCC)	0.030	0.800
Ferry Creek (WBFE)	0.015 -0.040	0.045 - 0.080
Ferry Creek Tributary No. 1 (WBFE)	0.015 -0.040	0.045 - 0.080
Unnamed Tributary to Ferry Creek (WBFE)	0.050 - 0.050	0.550 - 0.100
South of Foxcroft Road Tributary (WBFX)	*	*
South of Foxcroft Road Tributary Reach No. 2 (WBFX)	0.300	0.050
Klein Creek (WBKC)	0.030-0.045	0.060-0.080
Klein Creek Tributary No. 1	*	*
Klein Creek Tributary No. 2 (WBKC)	0.035	0.065
Klein Creek Tributary No. 3 (WBKC)	0.055	0.070
Kress Creek (WBKR)	0.015-0.080	0.040-0.100
Kress Creek Reach No. 2 (WBKR)	0.015-0.080	0.040-0.100
Spring Brook No. 1 (WBSP)	0.030 - 0.120	0.013 - 0.155
Steeple Run Tributary (WBSR)	0.014 - 0.100	0.030 - 0.100
Steeple Run Tributary Reach No. 3 (WBSR)	0.010 - 0.040	0.010 - 0.040

*Data not available

Table 10 - Roughness Coefficients (Manning's "n" Values) - continued

Stream	Channel "n"	Overbank "n"
West Branch DuPage River Watershed (WBWB) - continued		
West Branch Tributary No. 1 (WBW1)	0.050-0.080	0.095
West Branch Tributary No. 2 (WBW2)	0.015-0.035	0.035-0.120
West Branch Tributary No. 3 (WBW3)	0.040-0.070	0.085
West Branch Tributary No. 4 (WBW4)	0.065	0.085-0.100
West Branch Tributary No. 6 (WBW6)	0.070	0.100
West Branch Tributary No. 7 (WBW7)	0.050-0.060	0.065-0.100
West Branch Reach No. 18 (WBWB)	0.050-0.070	0.065-0.085
West Branch DuPage River (WBWB)	0.035 - 0.050	0.040 - 0.100
Winfield Creek (WBWF)	0.015-0.055	0.045-0.100
Winding Creek (WBWG)	*	*

*Data not available

3.3 Vertical Datum

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

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

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Effective information for this FIS was converted from NGVD 29 to NAVD 88 based on data presented in Figure 2 and Table 11a. Computations show an average conversion factor of -0.271 feet (NGVD 29 – 0.271 = NAVD 88) for the county. The conversion factor was applied uniformly across the county, with the

exception of Norton Creek, Norton Creek Tributary, and Waubansee Creek, and was used to prepare the Floodway Data Tables, Flood Profiles, and FIRMs.

The countywide conversion factor could not be used for Norton Creek, Norton Creek Tributary, and Waubansee Creek since the studied portion of the streams are located in two counties and the average conversion factor determined for each county differs from the other. The Multiple Conversion Factors (stream-by-stream) method was applied to these streams. For the stream-by-stream method, each studied stream is assigned an average conversion factor based on the conversion factors at three points along the stream. These results are shown in Table 11b.

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

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

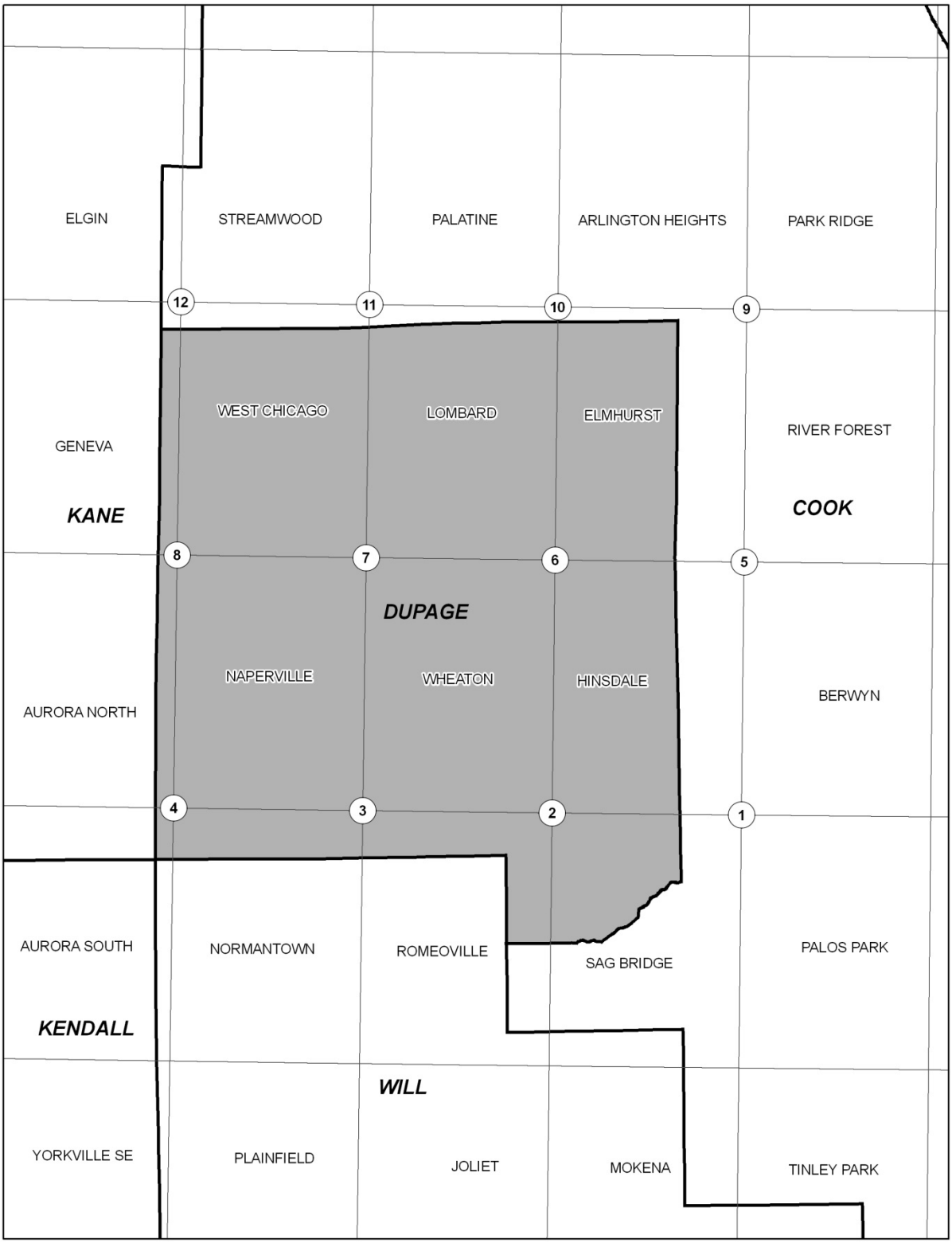

Figure 2 – Vertical Datum Conversions
USGS Quadrangle Corner Intersections
The change in elevation for each Point ID is listed in Table 11a

Table 11a - Vertical Datum Conversions
Datum Conversions – DuPage County

Point ID #	Quadrangle Name	Corner	NAD83 Latitude (dec. deg.)	NAD83 Longitude (dec. deg.)	NGVD 29 to NAVD 88 Elevation Change (feet)
1	Palos Park	NW	41.750	87.875	-0.282
2	Sag Bridge	NW	41.750	88.000	-0.269
3	Romeoville	NW	41.750	88.125	-0.266
4	Normantown	NW	41.750	88.250	-0.243
5	Berwyn	NW	41.875	87.875	-0.295
6	Hinsdale	NW	41.875	88.000	-0.279
7	Wheaton	NW	41.875	88.125	-0.259
8	Naperville	NW	41.875	88.250	-0.240
9	River Forest	NW	42.000	87.875	-0.308
10	Elmhurst	NW	42.000	88.000	-0.282
11	Lombard	NW	42.000	88.125	-0.272
12	West Chicago	NW	42.000	88.250	-0.262
Range of conversion values					-0.308 through -0.240
Average conversion factor					**-0.271**
Maximum variance from the average conversion					0.037
Maximum variance from a no-conversion value					0.308

Table 11b - Vertical Datum Conversions
Multiple Conversion Factor (stream-by-stream) Method
DuPage County

Point Location	Community	NAD83 Latitude (dec. deg.)	NAD83 Longitude (dec. deg.)	NGVD29 to NAVD88 Elevation Change (Feet)	Maximum (Offset)	Average Conversion
Norton Creek	City of West Chicago, Village of Wayne					
Downstream		47.949	88.311	-0.243		
Intermediate		41.947	88.280	-0.246		
Upstream		41.938	88.249	-0.249	-0.003	-0.246
Norton Creek Tributary	Unincorporated Lake County, Village of Wayne					
Downstream		41.948	88.264	-0.249		
Intermediate		41.954	88.253	-0.253		
Upstream		41.958	88.242	-0.253	0.003	-0.251
Waubansee Creek	City of Aurora					
Downstream		41.686	88.354	-0.233		
Intermediate		41.722	88.298	-0.233		
Upstream		41.752	88.232	-0.246	-0.013	-0.237