



Department of
Environmental
Conservation

Floodplain Basics

Development Requirements, Flood Maps,
Flood Insurance

Onondaga County Planning Federation
March 2, 2017

DEC Floodplain Coordinators

Central Office

Main Number: 518-402-8185

floodplain@dec.ny.gov

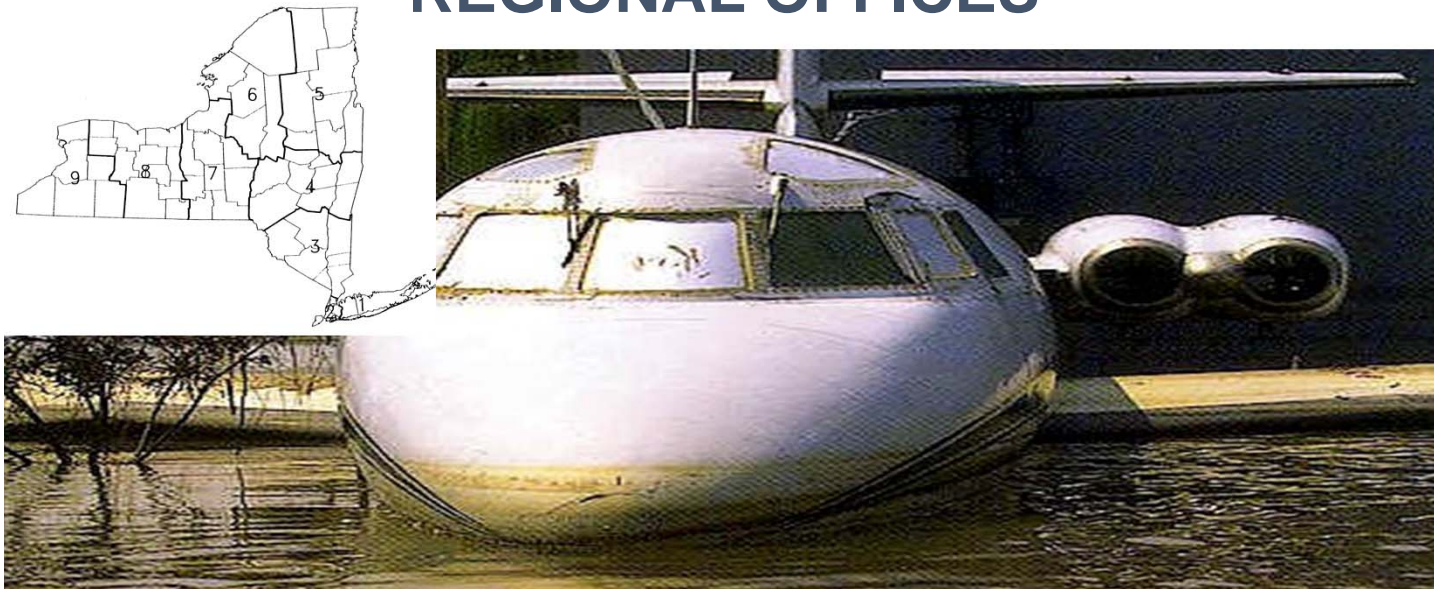
Bill Nechamen, CFM	(518) 402-8146
Kelli Higgins-Roche, CFM	(518) 408-0340
David Sherman	(518) 402-8215
Brad Wenskoski	(518) 402-8280

Western New York Flood Hub: Assists in Regions 6-9

Mary Binder	(585) 226-5447
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mary.binder@dec.ny.gov

DEC NFIP Regional Coordinators REGIONAL OFFICES



Region 7: Syracuse
Kevin Delaney
315-426-7501

Region 7: Kirkwood
Dan Fuller, Ben Girtain Plowe
607-775-2545

Floods and Floodplains

Major Categories of Floods

Riverine Flooding

- Overbank Flooding
- Flash Flooding
- Riverine Erosion
- Ice Jam Flooding

Coastal Flooding

- Coastal Storms
- Coastal Erosion
- Tsunamis
- Lake Flooding

Shallow Flooding

- Sheet Flow
- Ponding
- Urban Drainage



Overbank Flooding

Half of Flooded Businesses Never Re-Open

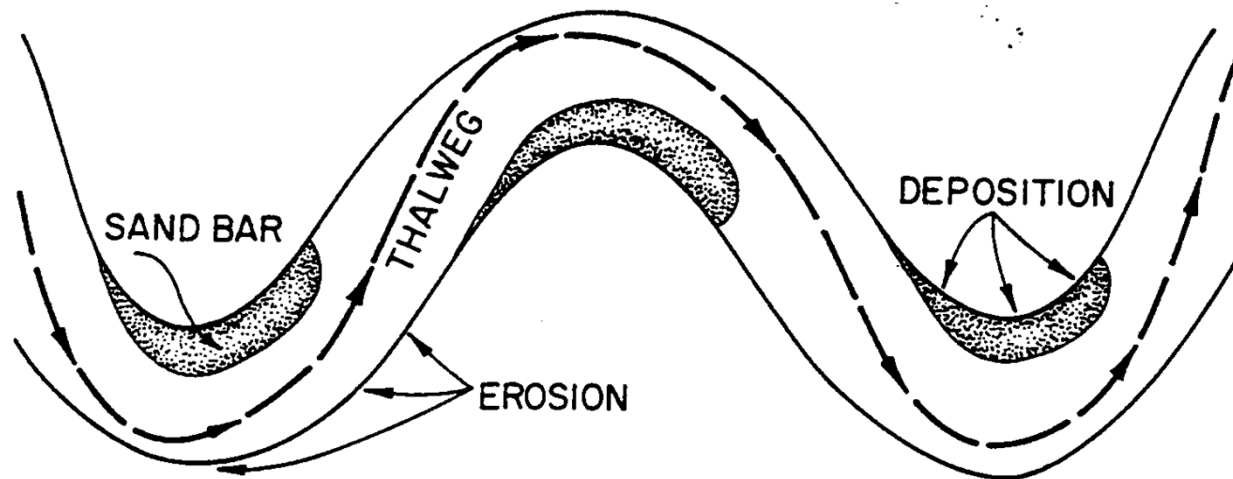




Flash Flooding



Riverine Erosion



Riverine Erosion



A Floodplain Is:

- a. River or stream channel up to natural banks
- b. Low-lying area along a river, stream, or coast subject to flooding
- c. Area along a river, stream, or coast subject to flooding by the 1% chance (100-year) flood
- d. Area along a river, stream, or coast that is developed and subject to flooding

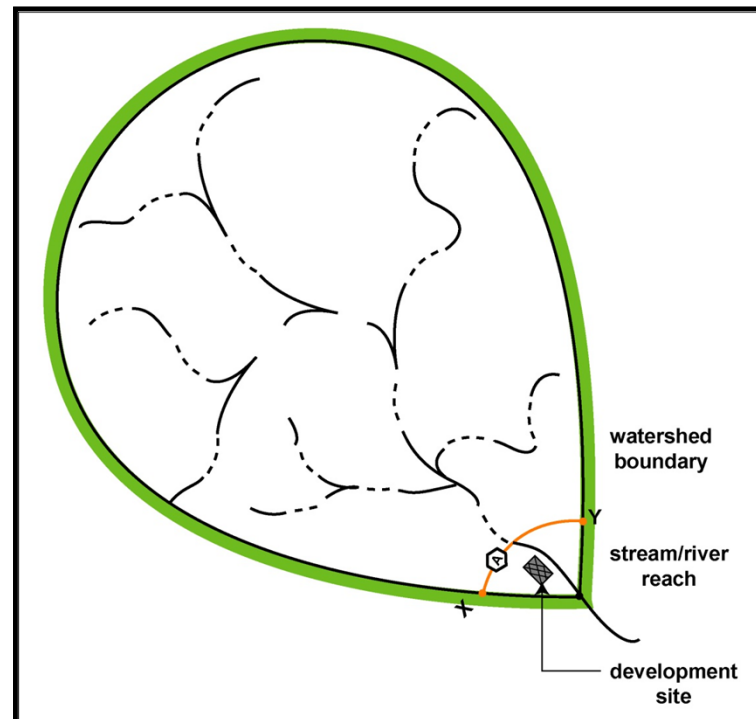
**Which of these
definitions apply?**

Why Are People in Floodplains?

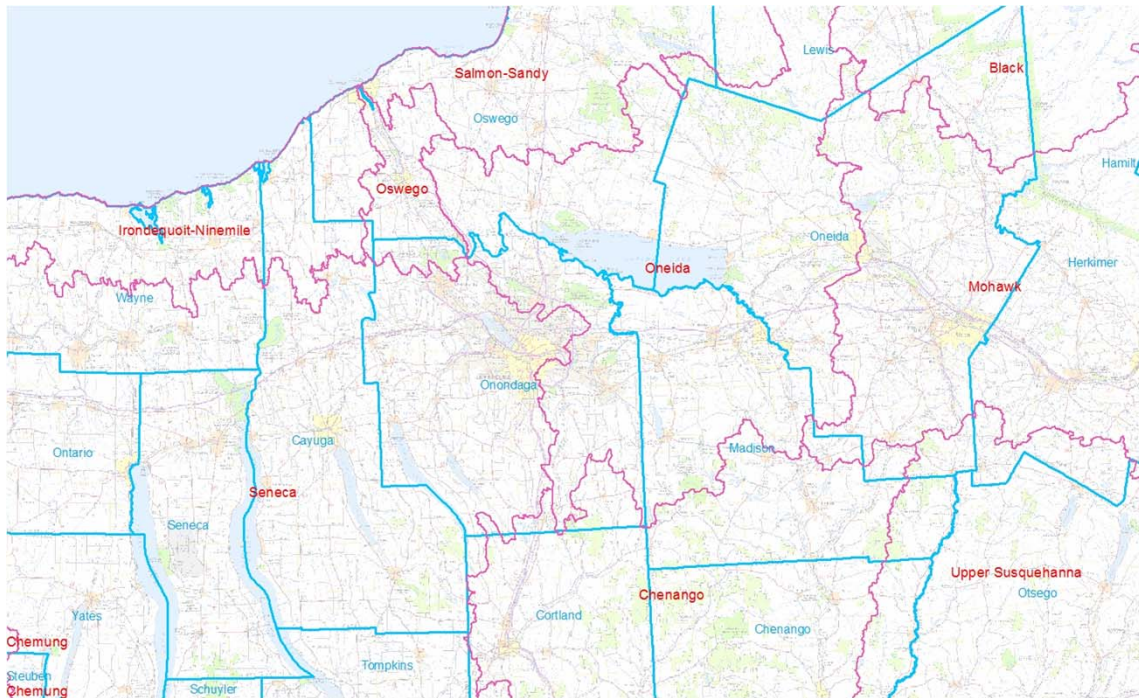
- First settlers faced a wilderness without roads.
- Coasts and rivers provided harbors, transportation routes, and fishing/water sources.
- Now people enjoy living near water for recreation and pleasant surroundings.
- Unintended consequence:
Flood losses.
 - Development Increases Runoff
 - Development Encroaches on Floodplains



Your Place in the Watershed



Central NY Watersheds



Department of
Environmental
Conservation

What Do Floodplains Do for Us?

- Naturally store and convey floodwaters.
- Maintain water quality.
- Recharge groundwater aquifers and naturally regulate flows into rivers and lakes.
- Support large and diverse populations of plants and animals.
- Provide historical, scientific, recreational, and economic benefits to communities.



Altering Natural Floodplains

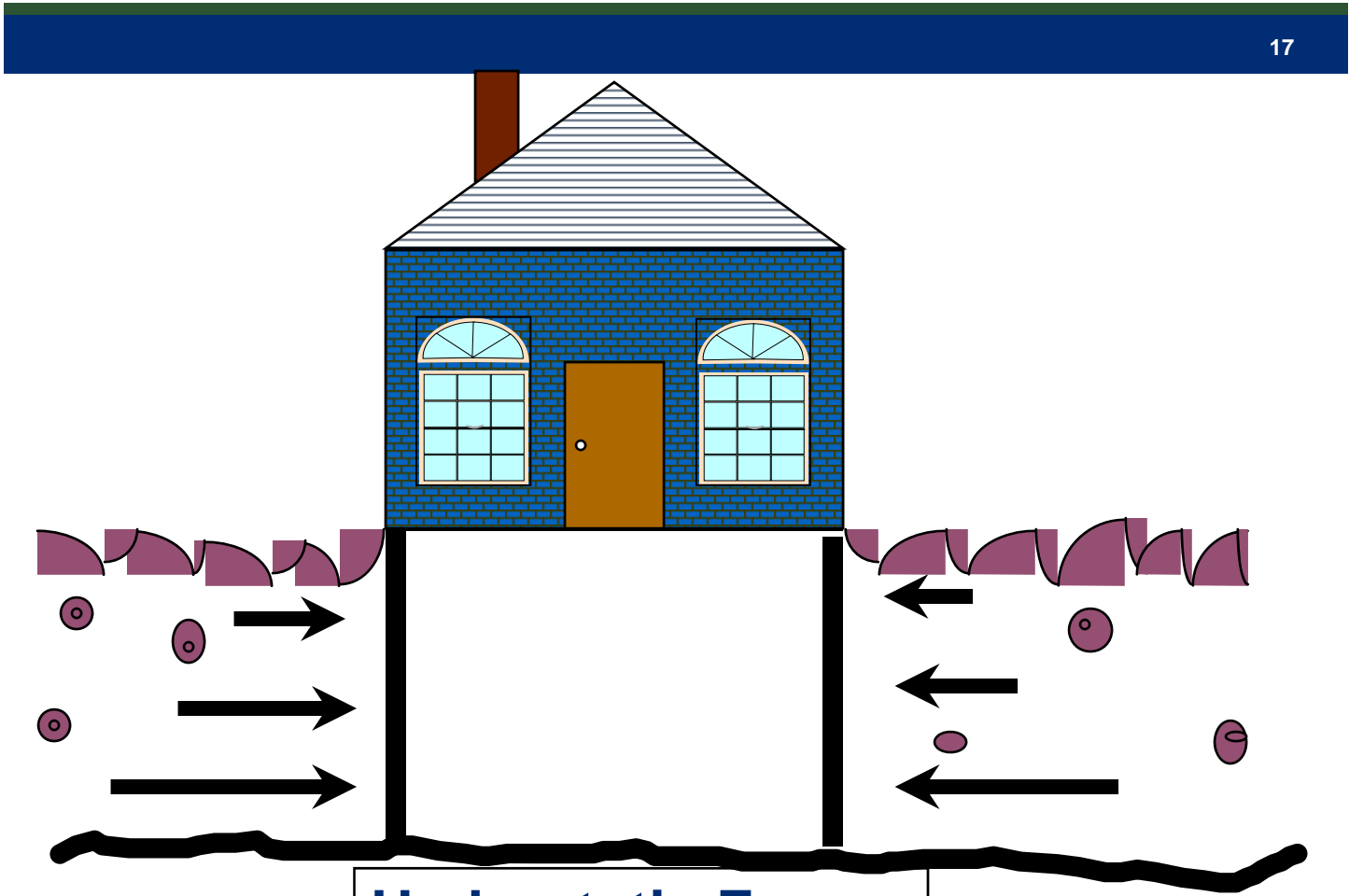
- Damages or destroys fish and wildlife breeding, nursery, and feeding grounds.
- Robs downstream habitats of nutrients.
- Threatens a significant percentage of endangered species.
- Increases Peak Flow
- Decreases Groundwater Storage
- Decreases Base Flow

Only 20-30% of U.S. floodplains remain undisturbed.



What Can We Do?

- Regulate to avoid or minimize the impact of new development.
- Use land acquisitions and easements to preserve and restore natural functions.
- Control development through growth and development policies.
- Use tax incentives, public education, and other means to build public support.
- Make sure that new development is Reasonably Safe from Flooding.



Hydrostatic Forces



**3 ft. of standing water can
collapse walls**

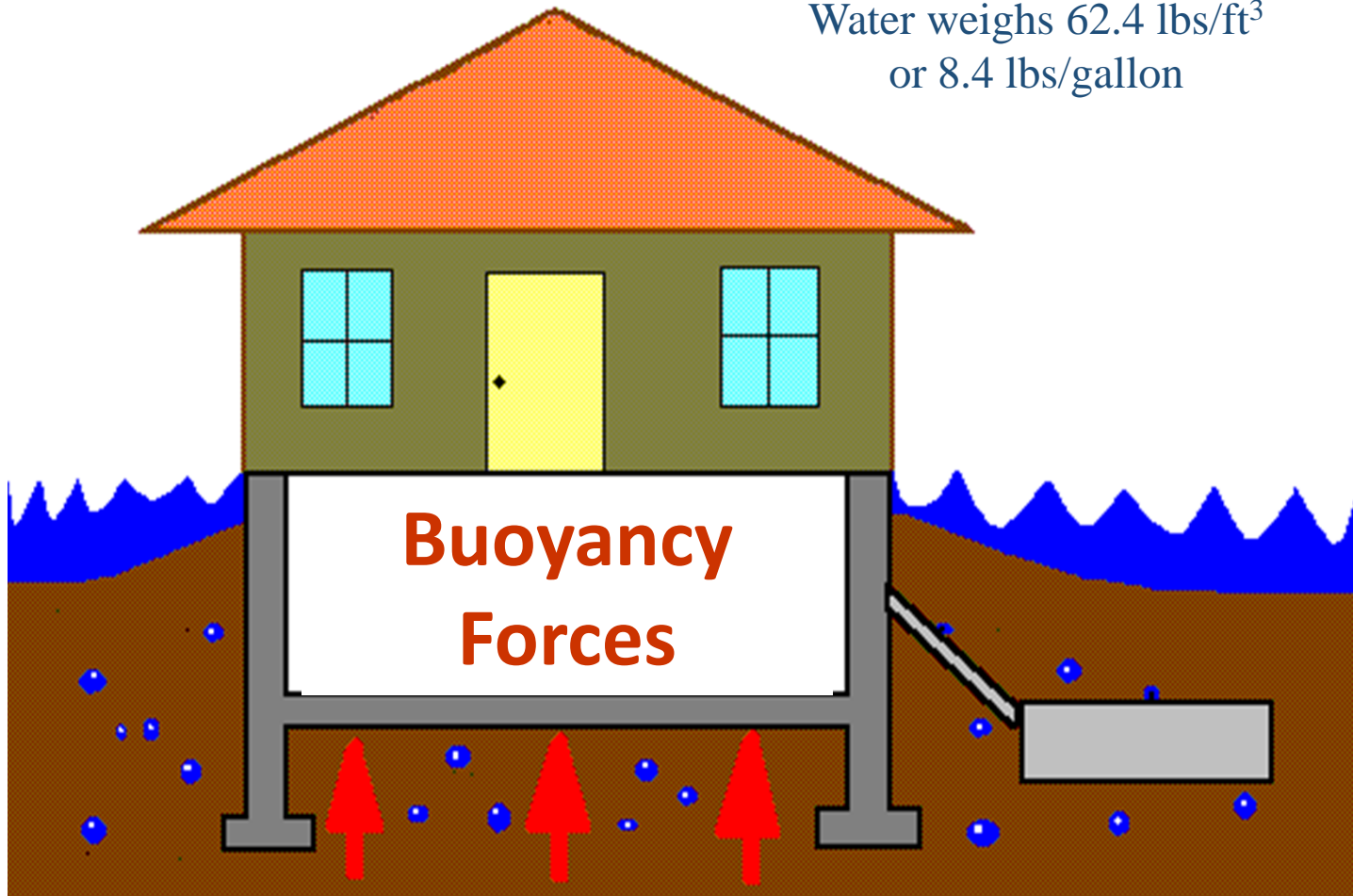


Basement Walls and Floors are Particularly Vulnerable



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Conservation

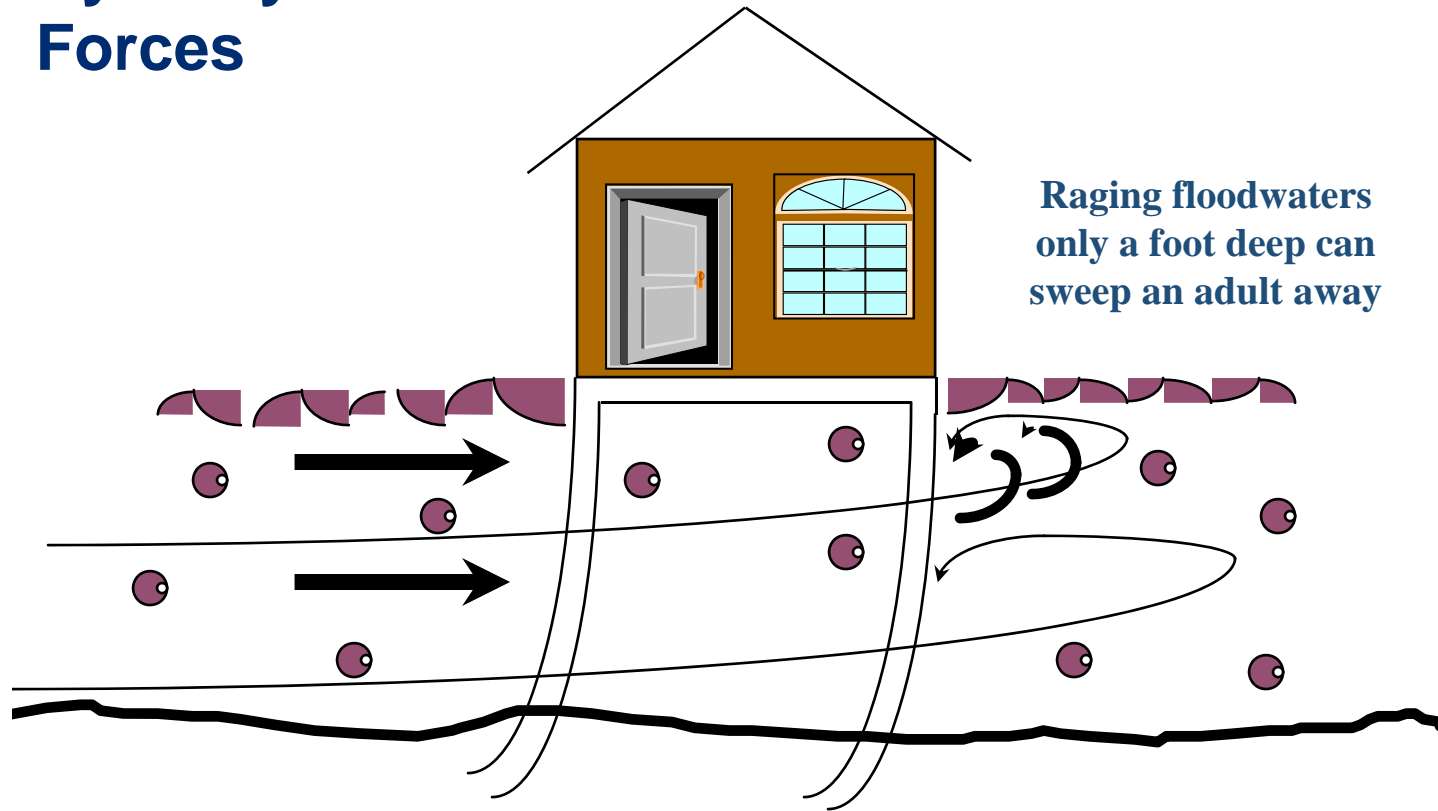
Water weighs 62.4 lbs/ft^3
or 8.4 lbs/gallon



Buoyancy Forces



Hydrodynamic Forces



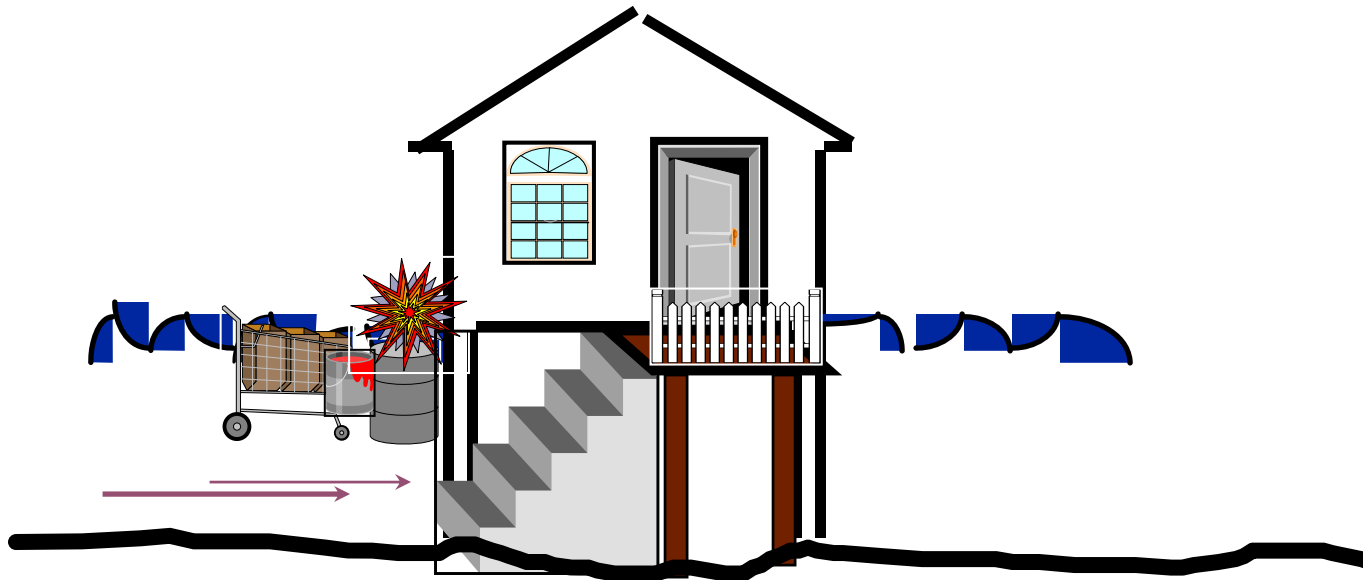


Hydrodynamic Forces

Water moving at 4 mph has same force as a 100 mph wind.



Debris Impact Forces



Debris Impact Forces



ON ALBANY ST. AFTER THE FLOOD. HERKIMER N.Y. 1910 '53



Soaking



Sediment and Contaminants



Premise of the NFIP Standards

Build it Up

Build it Back

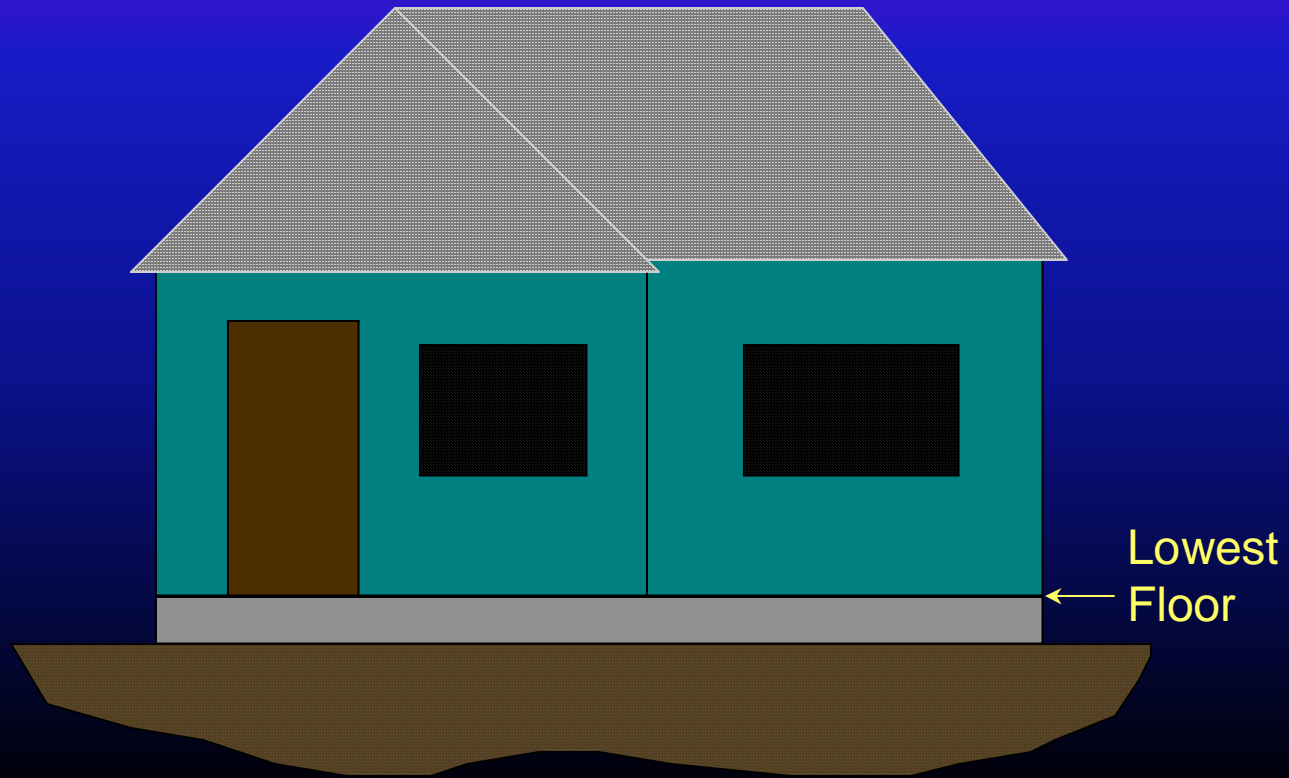
Protect It

Remember: It's not a question of IF, it's WHEN will there be a flood.

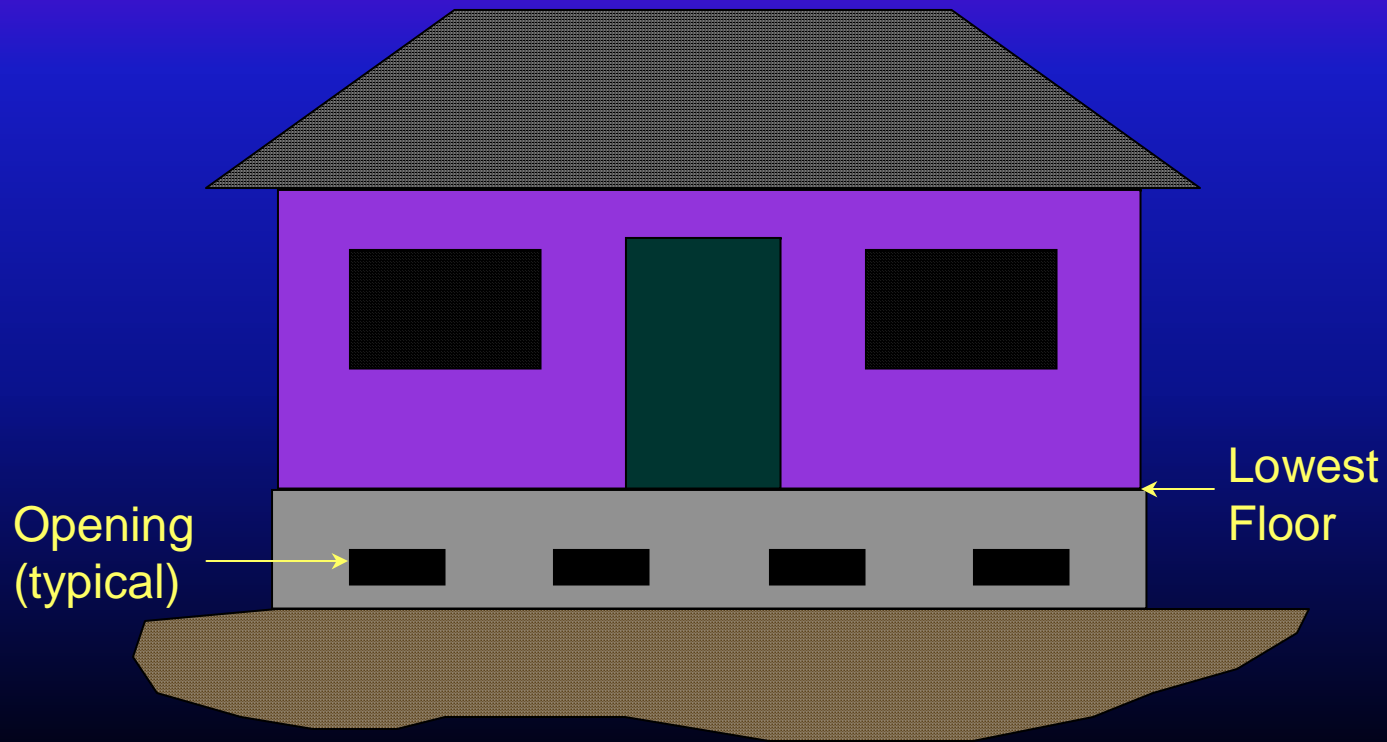
Key Concepts in Elevation Determinations

Lowest Floor

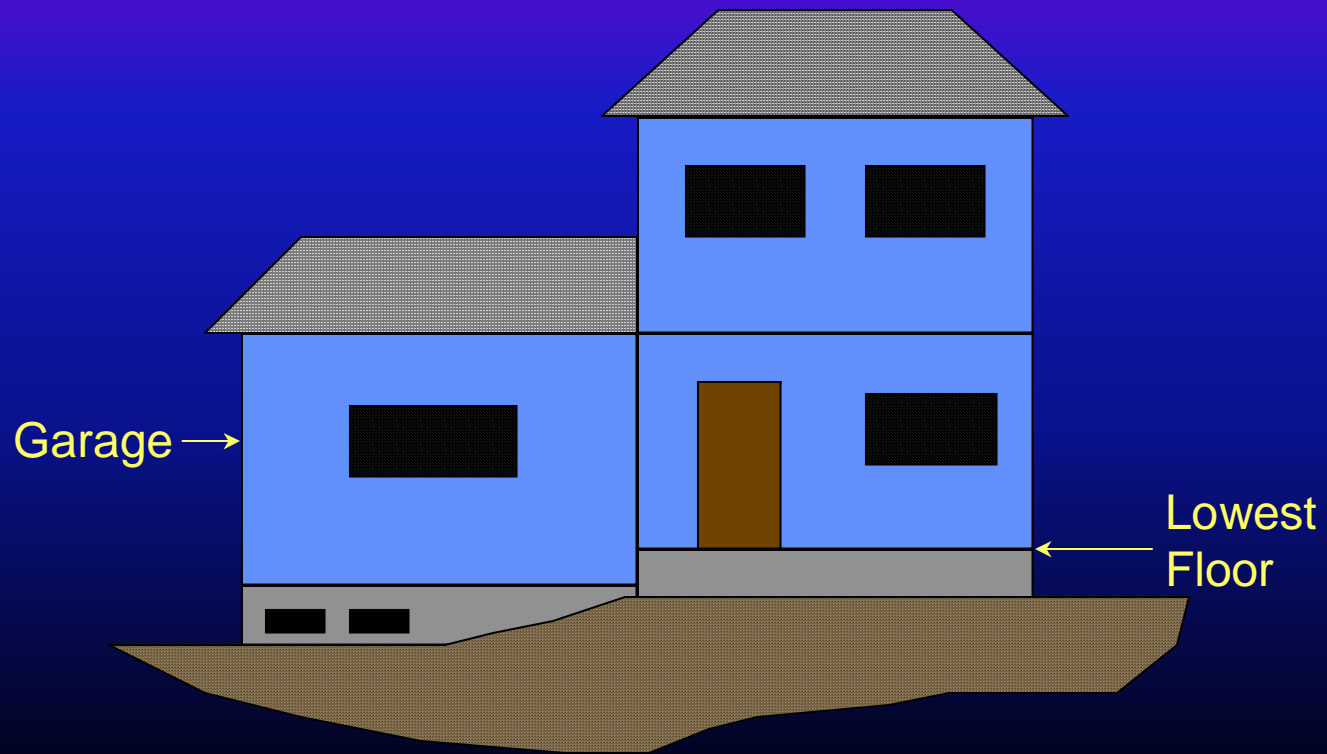
Lowest Floor Elevations Slab Foundation



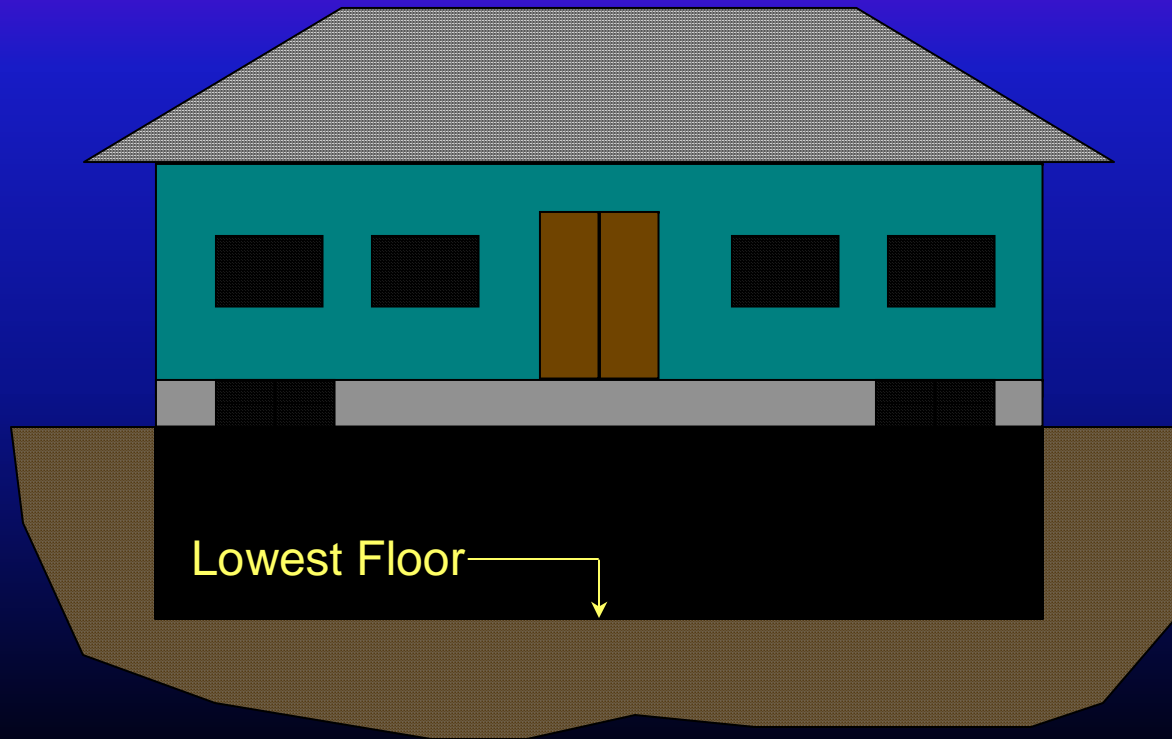
Lowest Floor Elevations Crawl-Space Foundation



Lowest Floor Elevations Split Level



Lowest Floor Elevations Basement Foundation



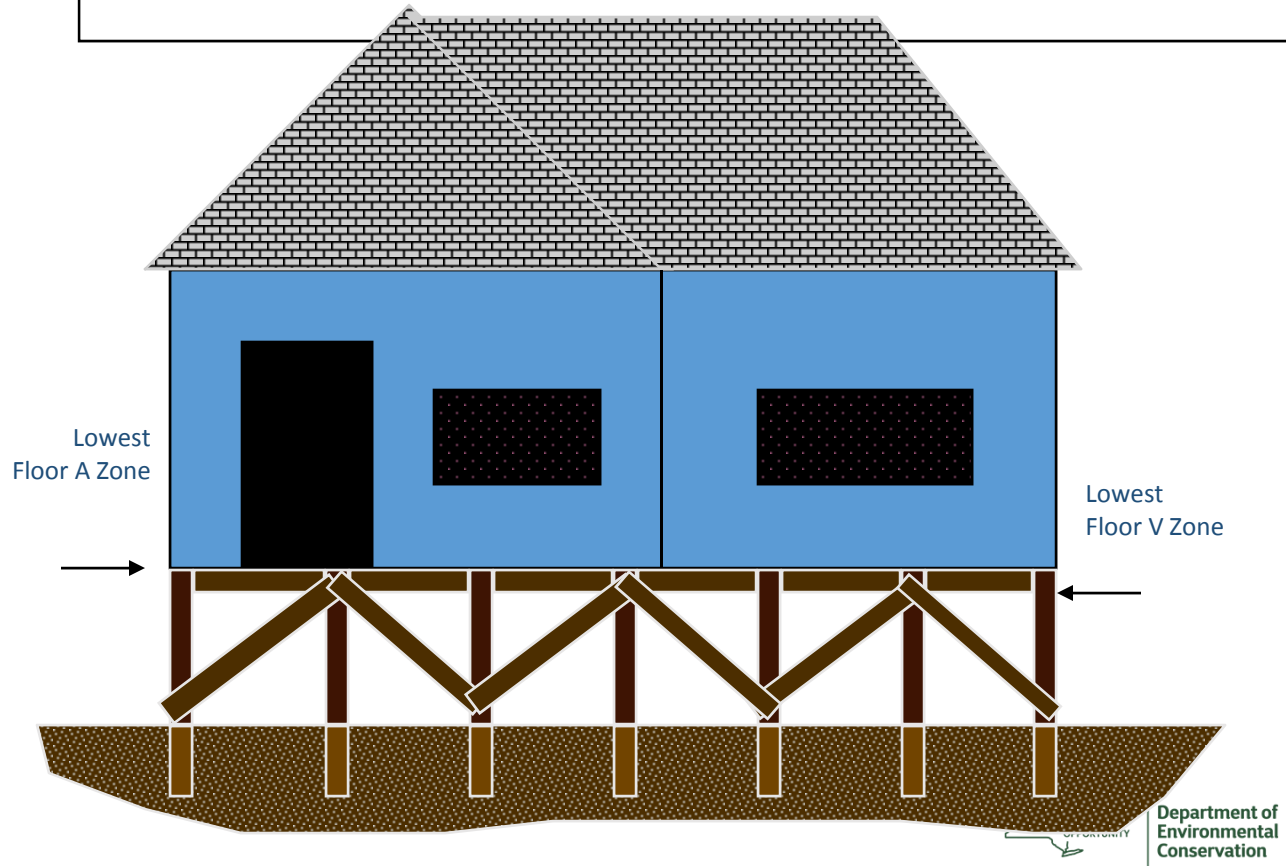
Basements

Basement or Cellar is that portion of a building having its floor subgrade (below ground level) on all sides.

The basement floor is always the lowest floor for flood insurance rating purposes regardless of the use, design, or contents.

New or Substantially Improved / Substantially Damaged Structures: **No Basement!**

Pile Foundation



Elevation and Design Requirements

Minimum Standards for NFIP Building Requirements

AE Zone Building Requirements (Base Flood Elevation (BFE) Available)

- The lowest enclosed area, including the basement, must be at or above the BFE Plus Two Feet
- Non-residential buildings may be flood proofed
 - Require Flood Proofing Certificate from PE or Architect
- No development in the regulatory floodway that would raise BFE
- FEMA and the State encourage Local Communities to adopt higher standards

Residential Building Code: R322.2.1

Building Code Section 1612.4: Refers to ASCE 24

2016 New York State Uniform Code Supplement

Construction Standards: Elevated Foundations

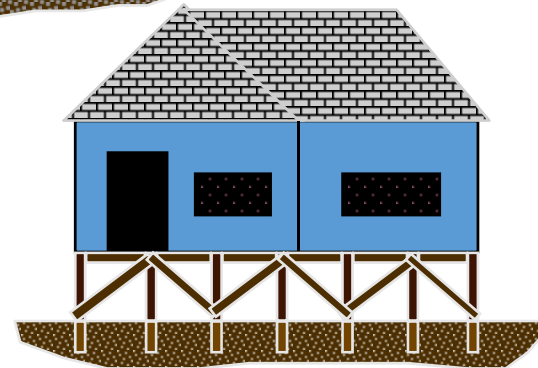
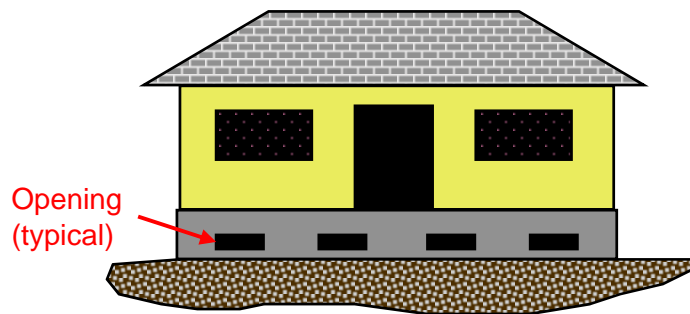
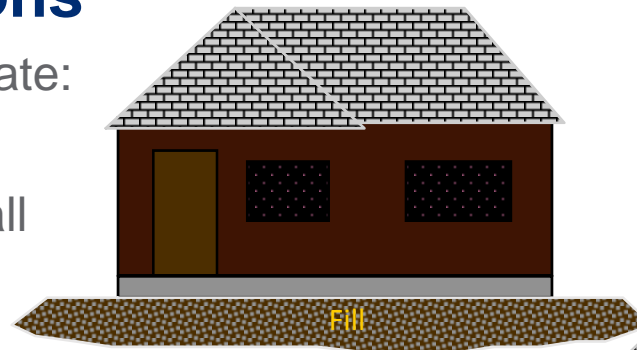
Ways to Elevate:

Fill

Perimeter Wall

Stem Wall

Pile



Requirements in the Floodway

No new development, including fill, in designated floodways that would increase flood heights.

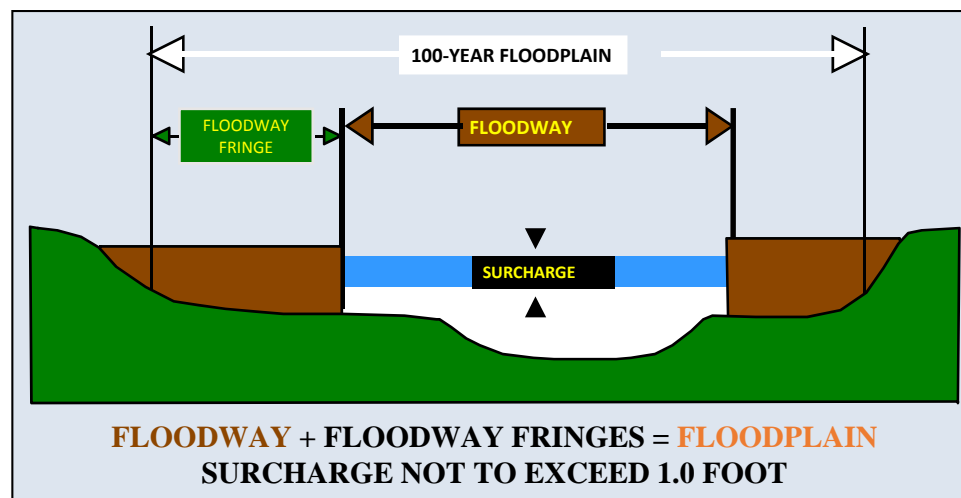
Developer must submit a hydraulic analysis which determines no rise in flood heights.

If there is any rise, project must be reconfigured or maps revised.

No variances for development in floodway.

IRC R301.2.4: Buildings and Structures Located in whole or in part in identified floodways shall be designed and constructed in accordance with ASCE-24; Development in Floodways Also Subject to FEMA Regs, 44CFR60.3d – **NOT JUST BUILDINGS!**

Floodway Schematic



Elevation Requirements: Zone A- NO Base Flood Elevation Data

- All new construction or substantial improvement, shall have the lowest floor, including basement, elevated at least three feet above the highest adjacent grade. (DEC Model Local Law; NYS Residential Building Code, R324.1.3.2)
- For subdivisions or other developments over 50 lots or 5 acres, applicant must provide flood elevation data and build accordingly. (FEMA Regulations: 44CFR60.3(b)(3))

Elevation Requirements: Zone A- NO Base Flood Elevation Data

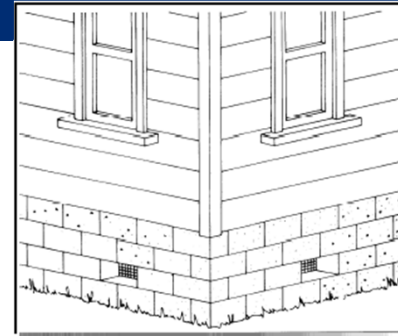
If there is a Base Flood Elevation from a reputable source, then use it.

- NYS DEC
- Corps of Engineers
- NRCS
- Historic Flood Data
- Other engineering study, including for development of over 5 acres or over 50 lots

Openings in Crawl Spaces

Standards

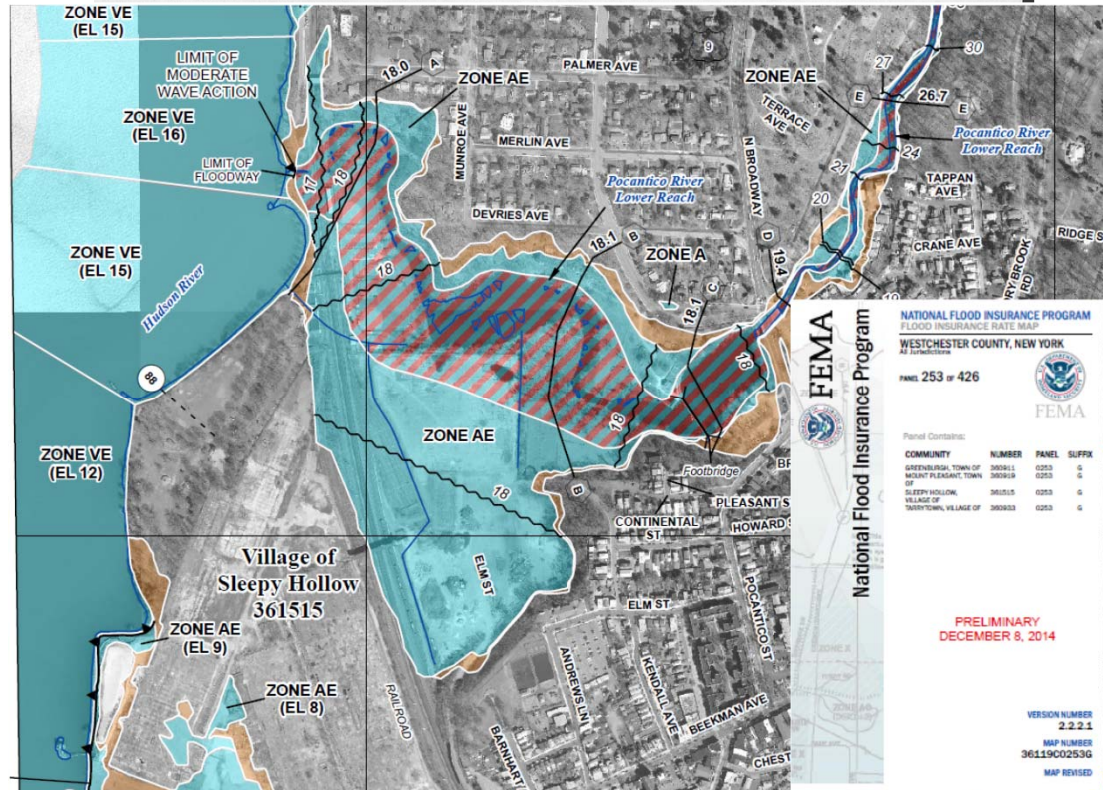
- No fewer than two openings
- Lowest point no higher than one foot above the higher of the inside or outside grade
- Minimum total size of openings: one square inch per square foot of enclosed space
- Louvers, valves or screens allowed, provided the permit automatic entry and exit of floodwaters



Flood Insurance Studies and Maps

Use the FIRM to

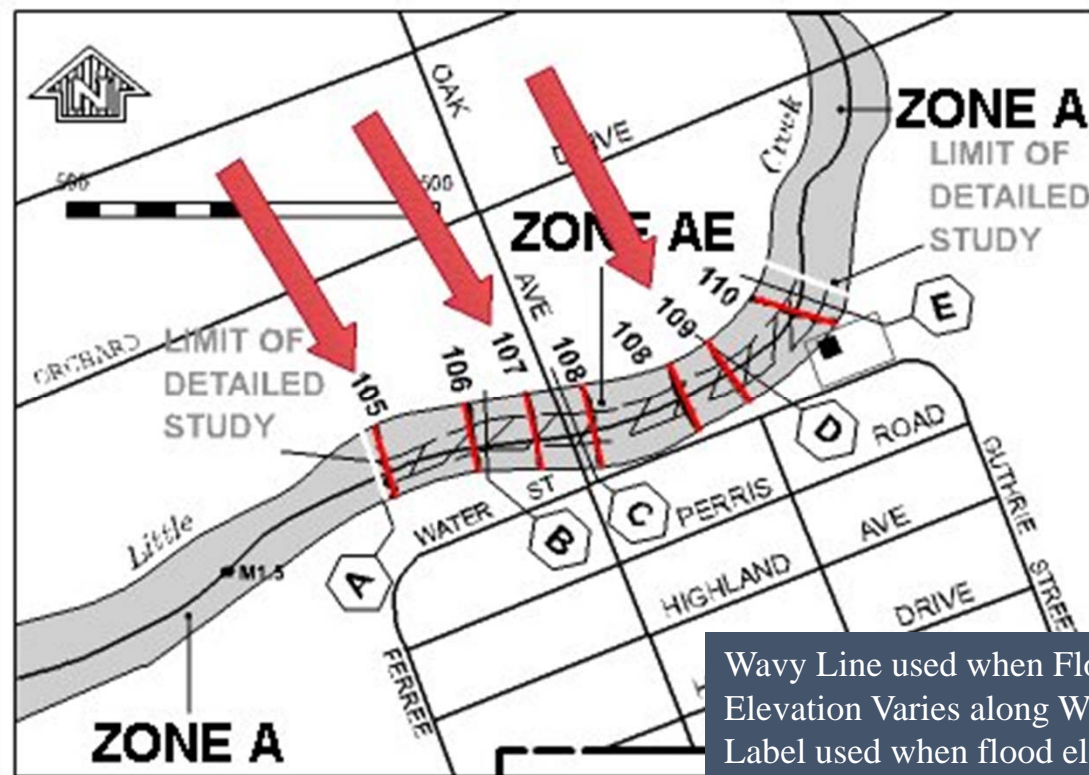
- Identify Special Flood Hazard Areas
- Identify the location of specific property
- Estimate BFE at a specific site
- Determine flood insurance zone at a specific site
- Determine the location of the regulatory floodway



Level of Detail

- **A Zone, No BFE**--delineates "100-year" floodplain boundaries; does not determine base flood elevations or depths
- **Detailed study**--determines base flood elevations (BFEs) or depths to be displayed on FIRM

Some Map Features



Wavy Line used when Flood Elevation Varies along Watercourse; Label used when flood elevation is uniform over large area.

Map Panel Information

Scale and North Arrow

Area Mapped

Communities and Community Numbers

Community Panel Number

Map Date

PANEL 0237F

FIRM
FLOOD INSURANCE RATE MAP
ONONDAGA COUNTY,
NEW YORK
(ALL JURISDICTIONS)

PANEL 237 OF 520
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

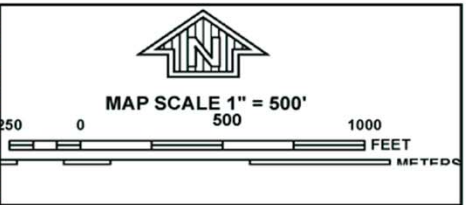
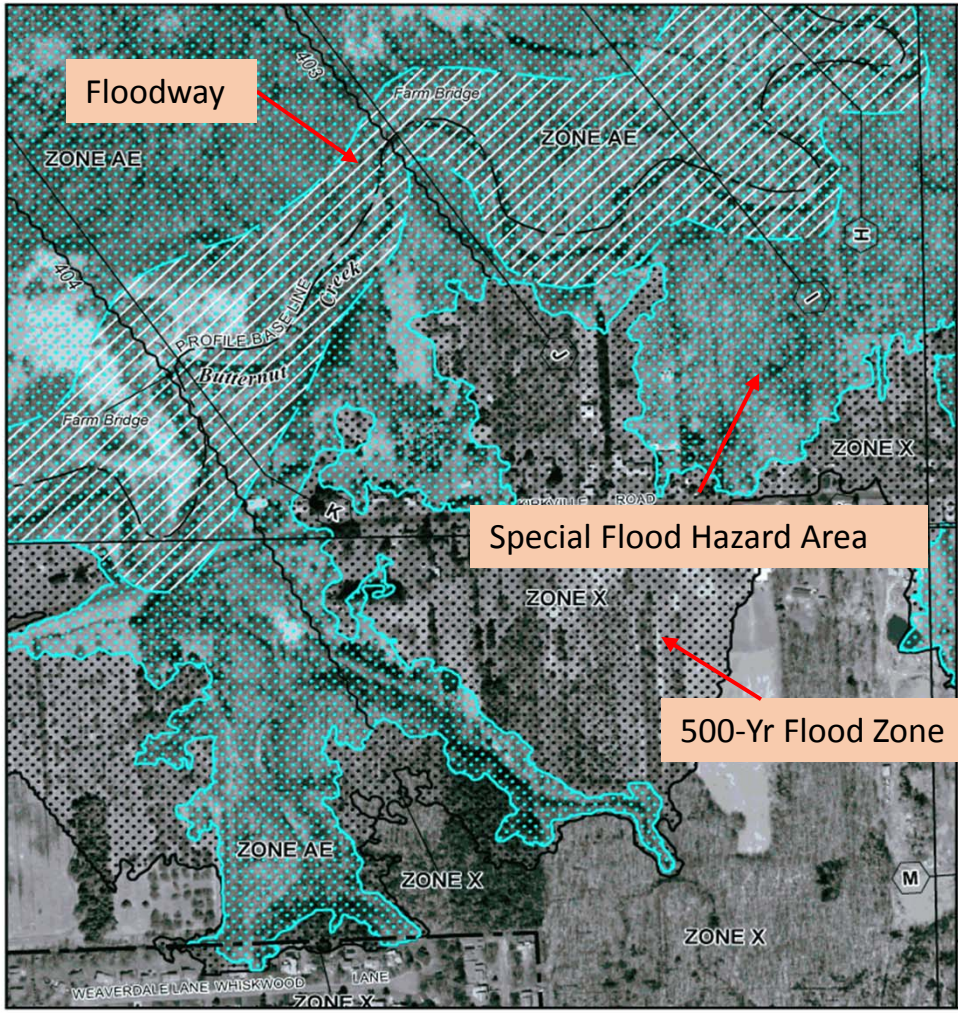
COMMUNITY	NUMBER	PANEL	SUFFIX
DEWITT TOWNSHIP OF	360673	0237	F
EAST SYRACUSE VILLAGE OF	360674	0237	F
SYRACUSE CITY OF	360665	0237	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
36067C0237F

EFFECTIVE DATE
NOVEMBER 4, 2016

Federal Emergency Management Agency



PANEL 0234F


FIRM
FLOOD INSURANCE RATE MAP
ONONDAGA COUNTY,
NEW YORK
(ALL JURISDICTIONS)

PANEL 234 OF 520
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

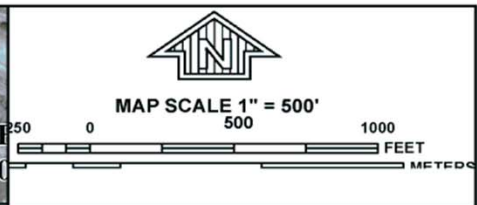
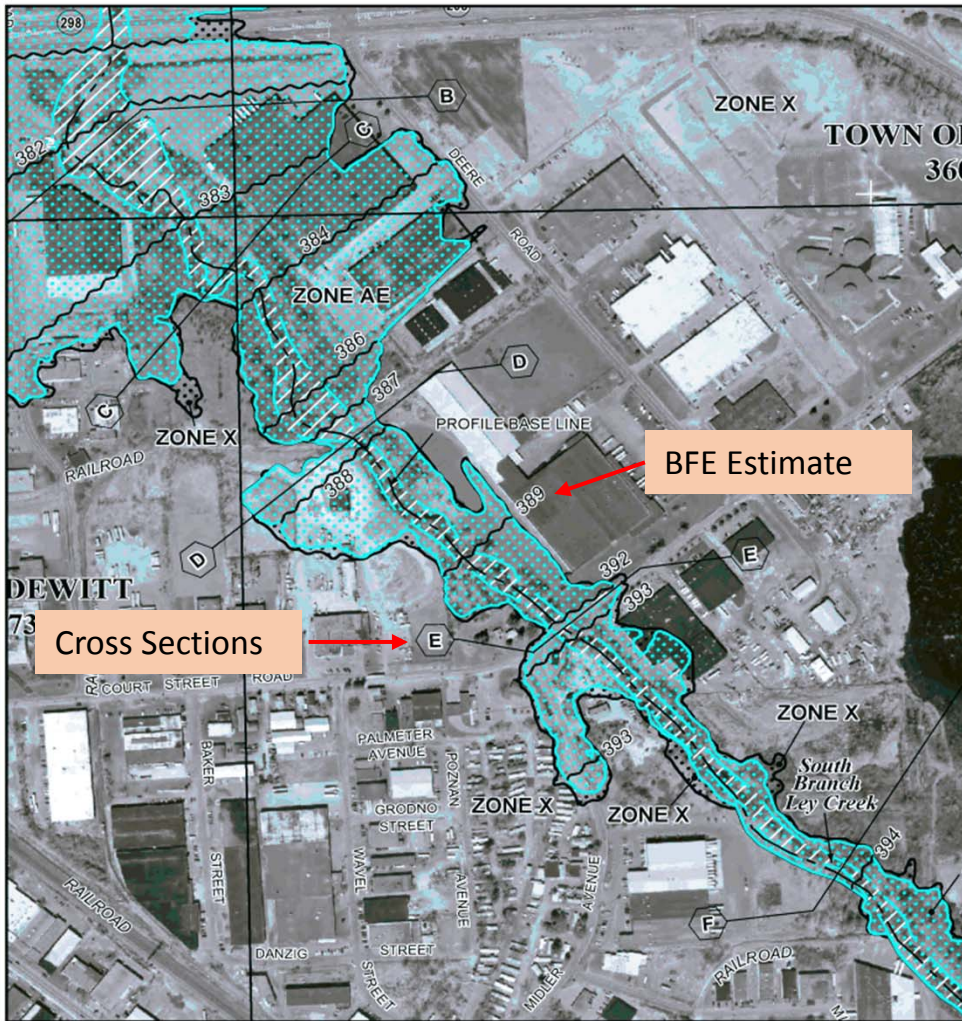
CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
MANLIUS, TOWN OF	360584	0234	F
MINCOA, VILLAGE OF	361017	0234	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.


MAP NUMBER
36067C0234F
EFFECTIVE DATE
NOVEMBER 4, 2016
 Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



NFP

PANEL 0228F

FIRM

FLOOD INSURANCE RATE MAP

ONONDAGA COUNTY,

NEW YORK

(ALL JURISDICTIONS)

PANEL 228 OF 520

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DEWITT, TOWN OF	360673	0228	F
SALINA, TOWN OF	360691	0228	F
SYRACUSE, CITY OF	360696	0228	F

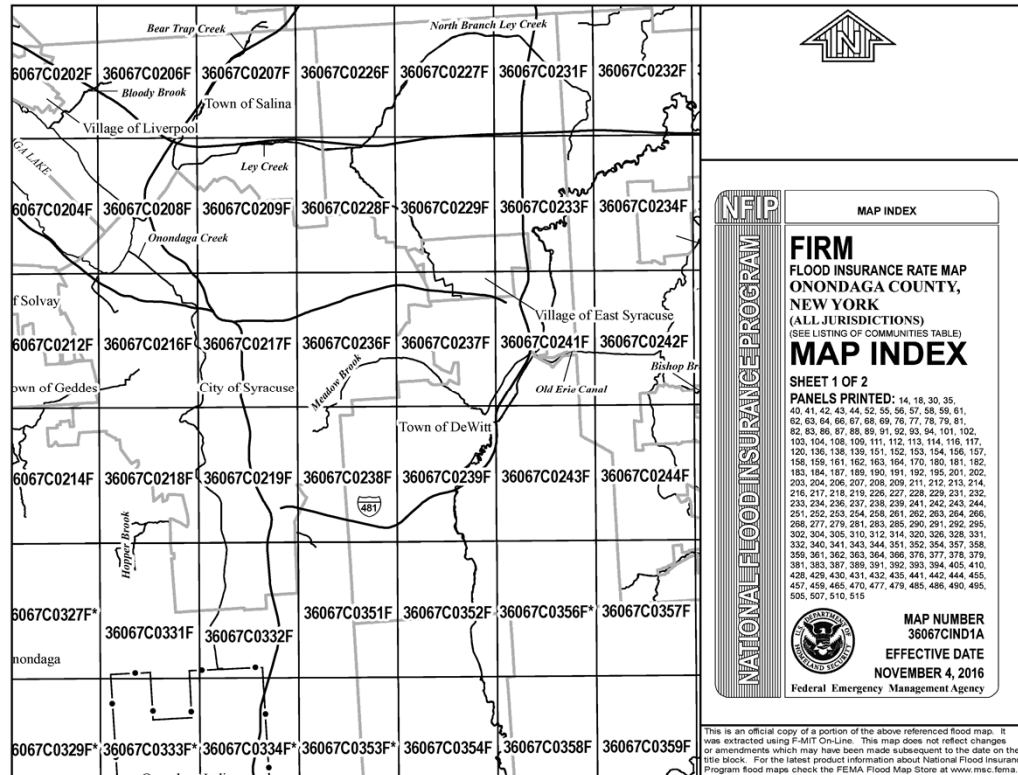
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
36067C0228F

EFFECTIVE DATE
NOVEMBER 4, 2016

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LISTING OF COMMUNITIES

COMMUNITY NAME	COMMUNITY NUMBER	LOCATED ON PANEL(S)	INITIAL NFIP MAP DATE	INITIAL FIRM DATE	MOST RECENT FIRM PANEL DATE
BALDWINVILLE, VILLAGE OF	360569	0061, 0062, 0063, 0064, 0066, 0068	MARCH 15, 1974	AUGUST 16, 1982	NOVEMBER 4, 2016
CAMILLUS, TOWN OF	360570	0159, 0170, 0180, 0181, 0182, 0183, 0184, 0187, 0189, 0190, 0191, 0192, 0195, 0203, 0211	SEPTEMBER 6, 1974	JUNE 15, 1981	NOVEMBER 4, 2016
CAMILLUS, VILLAGE OF	360571	0213 0187, 0191	JULY 30, 1976	AUGUST 3, 1981	NOVEMBER 4, 2016
CICERO, TOWN OF	360572	0081, 0082, *0084, 0092, 0094, 0101, 0102, 0103, 0104, 0108, 0109, 0111, 0112, 0113, 0114 0116, 0117, 0120, 0136, 0138, 0139, 0207, 0226, 0227, 0231, 0232, 0251, 0252	NOVEMBER 1, 1974	APRIL 4, 1983	NOVEMBER 4, 2016
CLAY, TOWN OF	360573	0014, 0018, 0057, 0058, 0059, 0067, 0076, 0077, 0078, 0079, 0081, 0082, 0083, *0084, 0086 0087, 0088, 0089, 0091, 0092, 0093, 0094, 0202, 0206, 0207	JULY 1, 1977	APRIL 1, 1980	NOVEMBER 4, 2016
DEWITT, TOWN OF	360973	0226, 0227, 0228, 0229, 0231, 0233, 0236, 0237, 0238, 0239, 0241, 0243, 0244, 0351, 0352 *0356, 0357	MARCH 22, 1974	MARCH 1, 1979	NOVEMBER 4, 2016
EAST SYRACUSE, VILLAGE OF	360574	0229, 0233, 0237, 0241	APRIL 12, 1974	AUGUST 3, 1981	NOVEMBER 4, 2016
ELBRIDGE, TOWN OF	360575	0151, 0152, 0153, 0154, 0156, 0157, 0158, 0159, 0161, 0162, 0163, 0164, 0170, 0190	MAY 31, 1974	AUGUST 16, 1982	NOVEMBER 4, 2016
ELBRIDGE, VILLAGE OF	360576	0162, 0164, 0170	MAY 31, 1974	AUGUST 16, 1982	NOVEMBER 4, 2016
FABIUS, TOWN OF	360577	0477, 0479, 0485, 0490, 0496, 0505, 0507, 0510, 0515, *0520	AUGUST 16, 1974	APRIL 30, 1986	NOVEMBER 4, 2016
FABIUS, VILLAGE OF	360689	0505	NOVEMBER 4, 2016	NOVEMBER 4, 2016	NOVEMBER 4, 2016
FAYETTEVILLE, VILLAGE OF	360578	0242, 0244, 0261, 0263	JULY 26, 1974	AUGUST 2, 1982	NOVEMBER 4, 2016
GEDDES, TOWN OF	360579	0182, 0184, 0201, 0202, 0203, 0204, 0206, 0211, 0212, 0213	MAY 17, 1974	FEBRUARY 17, 1982	NOVEMBER 4, 2016
JORDAN, VILLAGE OF	360580	0153, 0154, 0161, 0162	APRIL 12, 1974	AUGUST 16, 1982	NOVEMBER 4, 2016
LAFAYETTE, TOWN OF	360581	*0334, 0341, *0342, 0343, 0344, 0351, 0352, *0353, 0354, *0356, 0358, 0361, 0362, 0363, 0364 0366, *0368, *0456, 0457, 0477, *0480, 0485	AUGUST 2, 1974	APRIL 3, 1985	NOVEMBER 4, 2016
LIVERPOOL, VILLAGE OF	360582	0201, 0202	JULY 26, 1974	FEBRUARY 4, 1981	NOVEMBER 4, 2016
LYSANDER, TOWN OF	360583	0030, 0035, 0040, 0041, 0042, 0043, 0044, 0052, 0055, 0056, 0058, 0059, 0061, 0062, 0063 0064, 0066, 0067, 0068, 0069, 0086, 0088, 0151, 0152, 0156, 0182	DECEMBER 13, 1974	JANUARY 6, 1982	NOVEMBER 4, 2016
MANLIUS, TOWN OF	360584	0231, 0232, 0233, 0234, 0241, 0242, 0243, 0244, 0251, 0252, 0253, 0254, 0258, 0261, 0262 0263, 0264, 0266, 0268, 0357, 0376, 0377, 0381	FEBRUARY 22, 1974	DECEMBER 15, 1982	NOVEMBER 4, 2016
MANLIUS, VILLAGE OF	360977	0244, 0263, 0264, 0357, 0376, 0377	AUGUST 2, 1974	SEPTEMBER 29, 1978	NOVEMBER 4, 2016
MARCELLUS, TOWN OF	360585	0189, 0190, 0196, 0302, 0304, 0305, 0310, 0312, 0314, *0315, 0320	MAY 3, 1974	AUGUST 16, 1982	NOVEMBER 4, 2016
MARCELLUS, VILLAGE OF	360586	0302, 0305	APRIL 12, 1974	JUNE 1, 1982	NOVEMBER 4, 2016
MINOA, VILLAGE OF	361017	0234, 0253	JUNE 28, 1974	SEPTEMBER 2, 1982	NOVEMBER 4, 2016
NORTH SYRACUSE, VILLAGE OF	360587	0094, 0113, 0207	NOVEMBER 4, 2016	NOVEMBER 4, 2016	NOVEMBER 4, 2016
ONONDAGA, TOWN OF	360588	0195, 0211, 0212, 0213, 0214, 0216, 0219, 0236, 0310, 0320, 0326, *0327, 0328, *0329, 0331 0332, *0333, *0334, 0340, 0341, 0343, 0351, *0353	AUGUST 30, 1974	JANUARY 18, 1984	NOVEMBER 4, 2016
OTISCO, TOWN OF	360589	0320, 0340, 0343, 0431, 0432, 0435, *0452, *0454, 0455, *0456, *0458	MAY 31, 1974	JUNE 3, 1986	NOVEMBER 4, 2016
POMPEY, TOWN OF	360590	*0356, 0357, 0358, 0359, 0366, *0367, *0368, *0369, 0376, 0377, 0378, 0379, 0381, 0383, *0386 0387, *0388, 0389, 0391, 0392, 0393, 0394, 0485, 0506, 0507, 0510	MAY 31, 1974	JANUARY 3, 1979	NOVEMBER 4, 2016
SALINA, TOWN OF	360591	0069, 0088, 0089, 0182, 0201, 0202, 0204, 0206, 0207, 0208, 0209, 0226, 0228	APRIL 11, 1975	AUGUST 16, 1982	NOVEMBER 4, 2016
SKANEATELES, TOWN OF	360592	0164, 0170, 0190, 0277, 0279, 0281, 0283, 0285, 0290, 0291, 0292, 0295, 0305, *0315, 0405 0410, 0430	NOVEMBER 8, 1974	JUNE 1, 1982	NOVEMBER 4, 2016
SKANEATELES, VILLAGE OF	360593	0279, 0283, 0290, 0291	MAY 31, 1974	FEBRUARY 17, 1982	NOVEMBER 4, 2016
SOLWAY, VILLAGE OF	361564	0203, 0204, 0211, 0212	NOVEMBER 4, 2016	NOVEMBER 4, 2016	NOVEMBER 4, 2016
SPOFFORD, TOWN OF	360594	0295, 0314, *0315, 0320, 0410, 0428, 0429, 0430, 0431, 0432, 0435, 0441, 0442, 0444, *0454 0455, 0465	DECEMBER 13, 1974	APRIL 30, 1986	NOVEMBER 4, 2016
SYRACUSE, CITY OF	360595	0204, 0208, 0209, 0212, 0214, 0216, 0217, 0218, 0219, 0228, 0229, 0236, 0237, 0238, 0331 0332	APRIL 12, 1974	MAY 3, 1982	NOVEMBER 4, 2016
TULLY, TOWN OF	361296	*0454, *0456, 0457, *0458, 0459, 0465, 0470, 0477, 0479, *0480, 0486, 0490	OCTOBER 18, 1974	APRIL 30, 1986	NOVEMBER 4, 2016
TULLY, VILLAGE OF	361552	0486	JANUARY 10, 1975	JANUARY 19, 1983	NOVEMBER 4, 2016
VAN BUREN, TOWN OF	360596	0040, 0041, 0042, 0043, 0044, 0061, 0063, 0064, 0068, 0069, 0152, 0156, 0157, 0158, 0159 0180, 0181, 0182, 0183	MAY 3, 1974	JULY 17, 1978	NOVEMBER 4, 2016

FLOOD INSURANCE STUDY



Volume 2 of 5

ONONDAGA COUNTY, NEW YORK (ALL JURISDICTIONS)



COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER
BALDWINVILLE VILLAGE OF	360100	SALINA TOWN OF	360101
CARLELLUE TOWN OF	360170	SHARPLESS TOWN OF	360102
CARLELLUE VILLAGE OF	360171	SHARPLESS VILLAGE OF	360103
CLARK TOWN OF	360172	SOLVA VILLAGE OF	361904
DEWITT TOWN OF	360173	STAPLETON TOWN OF	360104
EAST SYRACUSE VILLAGE OF	360174	SYRACUSE CITY OF	360105
ELBRIDGE TOWN OF	360175	TULLY TOWN OF	361006
FABUS VILLAGE OF	360176	TULLY VILLAGE OF	361007
FABUS TOWN OF	360177	VAN BUREN TOWN OF	360108
FABUS VILLAGE OF	360178		
FAYETTEVILLE VILLAGE OF	360179		
FREDERICK TOWN OF	360180		
GORDON VILLAGE OF	360181		
LAFAYETTE TOWN OF	360182		
LIVERPOOL VILLAGE OF	360183		
L'ANCIEN TOWN OF	360184		
MANKUS VILLAGE OF	360185		
MARCELLUS TOWN OF	360186		
MARCELLUS VILLAGE OF	360187		
MINNA VILLAGE OF	360188		
NORTH SYRACUSE VILLAGE OF	360189		
ONONDAGA TOWN OF	360190		
OTTISCO TOWN OF	360191		
POMPEY TOWN OF	360192		

Effective Date: November 4, 2016



Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER

36067CV002A



Department of Environmental Conservation

Historic Map Dates

COMMUNITY NAME	INITIAL NFIP MAP DATE	FLOOD HAZARD BOUNDARY MAP REVISIONS DATE	INITIAL FIRM DATE	FIRM REVISIONS DATE
Baldwinsville, Village of	March 15, 1974	September 12, 1975	August 16, 1982	March 1, 1984
Camillus, Town of	September 6, 1974	June 4, 1976 January 21, 1977	June 15, 1981	May 18, 1999
Camillus, Village of	July 30, 1976	None	August 3, 1981	May 18, 1999
Cicero, Town of	November 1, 1974	July 16, 1976 December 31, 1976	April 4, 1983	September 15, 1994
Clay, Town of	July 1, 1977	None	April 1, 1980	April 17, 1989 March 16, 1992
DeWitt, Town of	March 22, 1974	June 4, 1976	March 1, 1979	
East Syracuse, Village of	April 12, 1974	October 24, 1975	August 3, 1981	
Elbridge, Town of	May 31, 1974	May 28, 1976	August 16, 1982	
Elbridge, Village of	May 31, 1974	June 11, 1976	August 16, 1982	
Fabius, Town of	August 16, 1974	June 25, 1976	April 30, 1986	

TABLE 10	FEDERAL EMERGENCY MANAGEMENT AGENCY	COMMUNITY MAP HISTORY
	ONONDAGA COUNTY, NY (ALL JURISIDCTIONS)	



TABLE 5 - SUMMARY OF DISCHARGES – (continued)

<u>FLOODING SOURCE AND LOCATION</u>	<u>DRAINAGE AREA (sq. miles)</u>	<u>PEAK DISCHARGES (cfs)</u>			
		<u>10-percent chance</u>	<u>2-percent chance</u>	<u>1-percent chance</u>	<u>0.2 percent chance</u>
LIMESTONE CREEK					
At confluence with Chittenango Creek	180.83	8,360	12,210	13,870	18,330
Downstream of confluence with Butternut Creek	169.09	7,850	11,480	13,040	17,250
Upstream of NYS Thruway	100.26	6,470	9,670	11,230	15,010
Upstream of NYS Thruway	99.39	6,420	9,610	11,170	14,950
Upstream of Minoa Road at corner of Minoa	98.05	6,250	9,380	10,910	14,620
Erie Canal	94.34	5,740	8,660	10,070	13,510
At USGS Gage 04245000	86.56	5,080	7,760	9,010	12,090
At Village of Fayetteville upstream of corporate limits	86.21	5,060	7,720	8,970	12,030
At Downstream Village of Manlius Limit	83.13	4,920	7,460	8,670	11,630



FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Limestone Creek								
A	1,892	1,226	10,889	1.3	397.6	397.6	398.2	0.6
B	2,882	966	8,195	1.7	397.7	397.7	398.5	0.8
C	3,888	1,333	9,861	1.4	398.2	398.2	399.0	0.8
D	4,770	1,166	10,914	1.3	398.7	398.7	399.5	0.8
E	6,187	1,333	12,172	1.1	399.6	399.6	400.4	0.8
F	8,683	1,896	14,533	1.0	400.1	400.1	401.0	0.9
G	10,181	1,575	11,111	1.2	401.2	401.2	401.9	0.7
H	10,610	1,840	13,830	0.9	401.4	401.4	402.0	0.6
I	12,542	1,560	12,740	0.9	403.4	403.4	404.3	0.9
J	13,742	2,258	14,259	0.8	403.8	403.8	404.7	0.9
K	15,970	1,417	6,343	1.8	404.8	404.8	405.7	0.9
L	16,628	674	6,230	1.8	405.5	405.5	406.3	0.8
M	18,413	810	8,315	1.3	406.1	406.1	406.9	0.8
N	19,029	375	3,182	3.5	406.3	406.3	407.2	0.9
O	19,593	365	5,436	2.1	409.3	409.3	410.2	0.9
P	20,821	365	3,387	3.3	409.6	409.6	410.4	0.8
Q	22,877	979	11,715	1.0	410.2	410.2	411.1	0.9
R	25,834	2,619	15,858	0.7	411.1	411.1	411.9	0.8
S	27,384	3,218	18,094	0.6	411.3	411.3	412.1	0.8
T	28,935	3,027	14,752	0.7	411.7	411.7	412.4	0.7
U	29,539	2,932	17,701	0.6	411.8	411.8	412.5	0.7
V	30,284	2,525	12,557	0.9	411.8	411.8	412.5	0.7
W	31,792	2,037	12,508	0.9	412.0	412.0	412.9	0.9
X	33,346	1,963	13,064	0.8	412.2	412.2	413.1	0.9
Y	34,179	1,978	11,015	1.0	412.4	412.4	413.3	0.9
Z	34,674	2,230	8,737	1.3	412.8	412.8	413.7	0.9

¹ Feet above confluence with Chittenango Creek

TABLE 9

FEDERAL EMERGENCY MANAGEMENT AGENCY
ONONDAGA COUNTY, NY
 (ALL JURISDICTIONS)

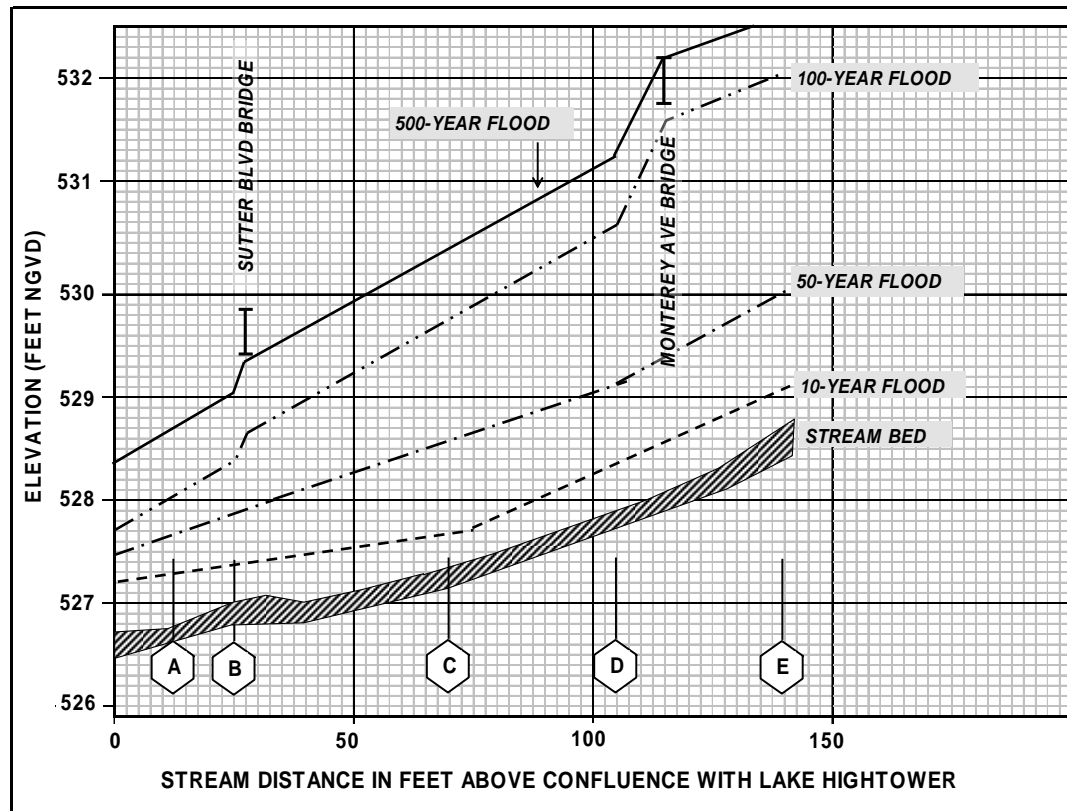
FLOODWAY DATA

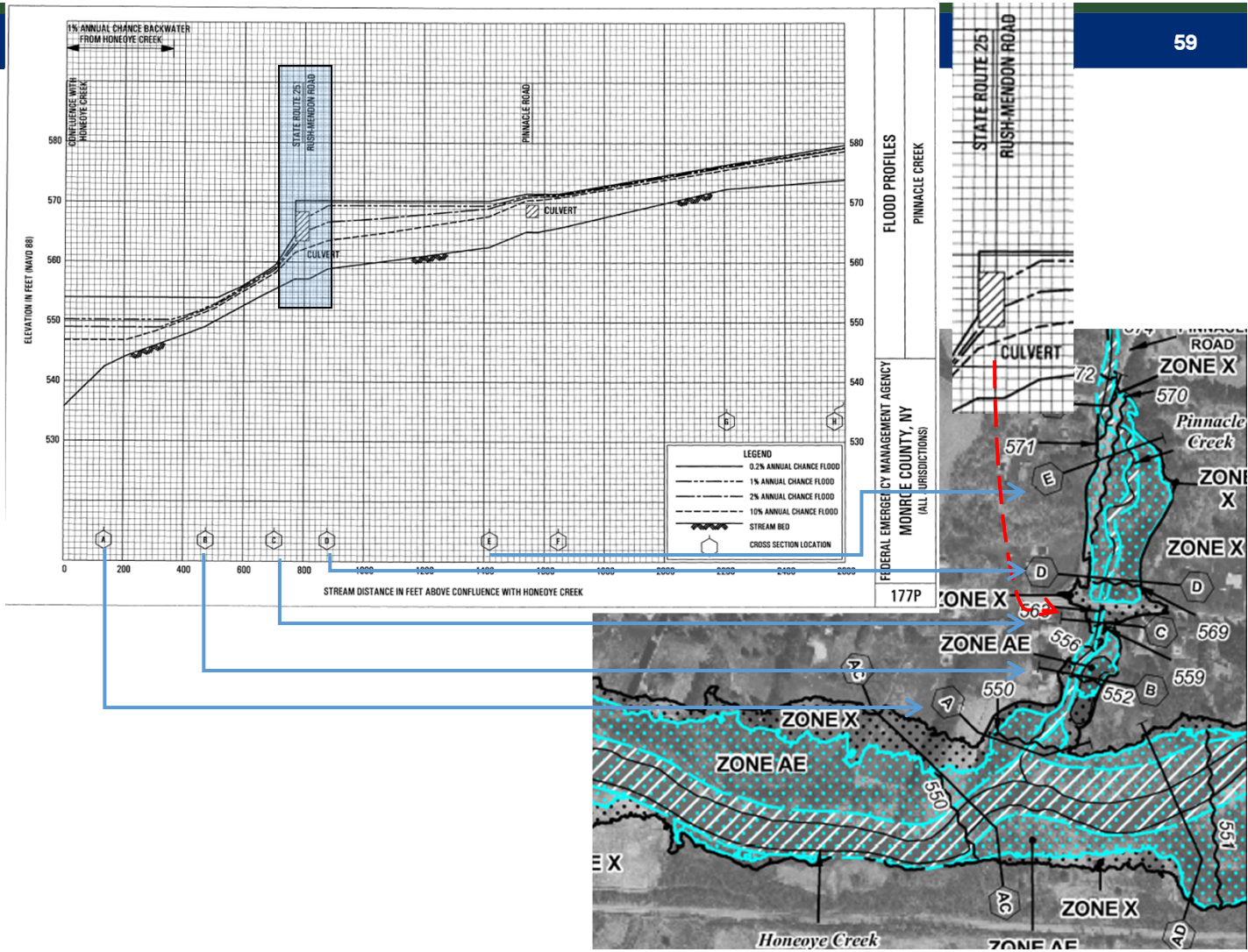
LIMESTONE CREEK



Department of
**Environmental
 Conservation**

Flood Profile Example





Where to Find Map Products

Online: Google “Map Service Center.” or
<http://www.msc.fema.gov/>

Contact a Map Specialist at 1-877-336-2627

View at


- Local Government Offices
- County and Regional Planning Offices
- DEC HQ and Regional Offices

FEMA now only issues one set of paper maps per community.


Using the Map Service Center: msc.fema.gov


The screenshot shows the FEMA Flood Map Service Center (MSC) website. The browser address bar displays msc.fema.gov/portal. The page features the FEMA logo and a navigation menu on the left with options like 'Navigation', 'Search', and 'Languages'. The main content area is titled 'FEMA Flood Map Service Center: Welcome!' and includes a search prompt: 'Looking for a Flood Map?'. Below this is a search input field with the placeholder text 'Enter an address, a place, or longitude/latitude coordinates:' and a 'Search' button. A small map thumbnail shows a flood hazard area with labels like 'FLOODWAY' and 'FLOODWAY'. The page also contains an 'About Flood Map Service Center' section with introductory text and a link to a 'Flood Hazard Mapping Updates Overview Fact Sheet'.


Let's Look up Manlius Town Hall



FEMA

 Navigation

 Search

 Languages

MSC Home

MSC Search by Address

MSC Search All Products

▼ MSC Products and Tools

- Hazus
- LOMC Batch Files
- Product Availability

MSC Frequently Asked Questions (FAQs)


MSC Email Subscriptions

Contact MSC Help

FEMA Flood Map Service Center: Welcome!

Looking for a Flood Map? [?](#)

Enter an address, a place, or longitude/latitude coordinates:



Looking for more than just a current flood map?

Visit [Search All Products](#) to access the full range of flood risk products for your community.

About Flood Map Service Center

The FEMA Flood Map Service Center (MSC) is the official public source for flood hazard information produced in support of the National Flood Insurance Program (NFIP). Use the MSC to find your official flood map, access a range of other flood hazard products, and take advantage of tools for better understanding flood risk.

FEMA flood maps are continually updated through a variety of processes. Effective information that you download or print from this site may change or become superseded by new maps over time. For additional information, please see the [Flood Hazard Mapping Updates Overview Fact Sheet](#)

Click on Search

The buttons below let you view and print the selected flood map, download the flood map image, open an interactive flood map (if available), or expand the search to all products to view effective, preliminary, pending, or historic maps, and risk products for the community. The locator map shows flood map boundaries in your area of interest. You can choose a new flood map by clicking elsewhere on the locator map or entering a new location in the search box.

Search Results—Products for **FAYETTEVILLE, VILLAGE OF**

The flood map for the selected area is number **36067C0242F**, effective on **11/04/2016**.

[VIEW MAP](#)
[SAVE MAP](#)
[INTERACTIVE MAP](#)
[Show all products for this area](#)

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- Revisions (0)
- Amendments (0)
- Revalidations (1)

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[DHS.gov](#)
[Ready.gov](#)
[USA.gov](#)
[DisasterAssistance.gov](#)

Show All Products Option

> Filter By Posting Date Range *(Optional)*

Search Clear All Fields

Search Results for FAYETTEVILLE, VILLAGE OF

Click [subscribe](#) to receive email notifications when products are updated.

Please Note: Searching All Products by county displays all products for all communities within the county. You can refine your search results by specifying your specific jurisdiction location using the drop-down menus above.

- Effective Products (15)
 - FIRM Panels (6) DLALL
 - FIS Reports (5) DLALL
 - LOMC (2)
 - NFHL Data-State (1)
 - NFHL Data-County (1)
- Preliminary Products (0)
- Pending Product (0)
- Historic Products (9)
- Flood Risk Products (0)

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[DHS.gov](#)
[Ready.gov](#)
[USA.gov](#)
[DisasterAssistance.gov](#)

Official website of the Department of Homeland Security

Open FIRM Panels and Select 36067C0242F

Search
Clear All Fields

Search Results for FAYETTEVILLE, VILLAGE OF

Click [subscribe](#) to receive email notifications when products are updated.

Please Note: Searching All Products by county displays all products for all communities within the county. You can refine your search results by specifying your specific jurisdiction location using the drop-down menus above.

Effective Products (15) DL ALL

- ▼ FIRM Panels (6) DL ALL

Please note: Searches often result in many map files listed under a given section. You can determine the Product ID for the individual map panel needed by looking at the Map Index file. The index map files have "IND" within the Product ID and appear at the start of the list. These index files show an overview of a jurisdiction and how it is subdivided into map panels with the Product ID for each panel shown.

Show 100 entries
Showing 1 to 6 of 6 entries
Previous 1 Next

Product ID	Effective Date	LOMC	Size	Download	View
36067CIND1A	11/04/2016		1MB	DL	VIEW
36067CIND2A	11/04/2016		0MB	DL	VIEW
36067C0242F	11/04/2016	LOMC	24MB	DL	VIEW
36067C0244F	11/04/2016	LOMC	25MB	DL	VIEW
36067C0261F	11/04/2016		22MB	DL	VIEW
36067C0263F	11/04/2016	LOMC	25MB	DL	VIEW

- ▶ FIS Reports (5) DL ALL
- ▶ LOMC (2)
- ▶ NFHL Data-State (1)
- ▶ NFHL Data-County (1)
- ▶ Preliminary Products (0) DL ALL
- ▶ Pending Product (0) DL ALL
- ▶ Historic Products (9) DL ALL
- ▶ Flood Risk Products (0) DL ALL

FEMA Flood Map Service | Intranetx Viewer [36067]

map.lmsc.fema.gov/dms/IntraView.cgi?ROT=0&O_X=7897&O_Y=9018&O_ZM=0.331107&O_SX=1599&O_SY=881&O_DPI=400&O_TH=3898057&O_EN=3990291&O_PG=1&O_MP=1&CT=0&DI=0&I=0

Scale: 9% LOMC: 1

APPS | Chrome | Imported | CIS | Community Overview | FEMA Flood Map Ser | ConcurTravel | Internal | BureauNet | File Transfer Service

FEMA

Help

Zoom In Zoom Out

1:1 MAX Zoom In Zoom Out

Make a FIRMette

NOTES TO USERS

This map is for use in establishing the National Flood Insurance Program's Risk Assessment. It is not intended for use in making any engineering or architectural decisions. It is not intended for use in making any engineering or architectural decisions. It is not intended for use in making any engineering or architectural decisions.

To obtain more detailed information, please refer to the National Flood Insurance Program's Risk Assessment User's Guide. The User's Guide is available at the following URL: www.fema.gov/nflap/nfiap-user-guide. The User's Guide contains information on the National Flood Insurance Program's Risk Assessment and the National Flood Insurance Program's Risk Assessment User's Guide.

Coastal Storm Surge Flood Hazard (CSFH) areas are shown in yellow and are based on the National Flood Insurance Program's Risk Assessment. CSFH areas are shown in yellow and are based on the National Flood Insurance Program's Risk Assessment. CSFH areas are shown in yellow and are based on the National Flood Insurance Program's Risk Assessment.

LEGEND

- SPECIAL FLOOD HAZARD AREAS DESIGNATED TO PROVIDE FOR THE FLOOD INSURANCE PROGRAM**
 - Zone A: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone B: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone C: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone D: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone E: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone F: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone G: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone H: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone I: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone J: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone K: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone L: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone M: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone N: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone O: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone P: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone Q: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone R: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone S: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone T: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone U: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone V: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone W: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone X: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone Y: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
 - Zone Z: Special Flood Hazard Area (SFHA) - 1% Annual Flood Hazard
- OPEN FLOOD AREAS**
 - Zone 1: Open Flood Area
 - Zone 2: Open Flood Area
 - Zone 3: Open Flood Area
 - Zone 4: Open Flood Area
 - Zone 5: Open Flood Area
 - Zone 6: Open Flood Area
 - Zone 7: Open Flood Area
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 - Zone 9: Open Flood Area
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 - Zone 14: Open Flood Area
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 - Zone 16: Open Flood Area
 - Zone 17: Open Flood Area
 - Zone 18: Open Flood Area
 - Zone 19: Open Flood Area
 - Zone 20: Open Flood Area
- COASTAL STORM SURGE FLOOD HAZARD AREAS (CSFH)**
 - Zone A: Coastal Storm Surge Flood Hazard Area
 - Zone B: Coastal Storm Surge Flood Hazard Area
 - Zone C: Coastal Storm Surge Flood Hazard Area
 - Zone D: Coastal Storm Surge Flood Hazard Area
 - Zone E: Coastal Storm Surge Flood Hazard Area
 - Zone F: Coastal Storm Surge Flood Hazard Area
 - Zone G: Coastal Storm Surge Flood Hazard Area
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 - Zone W: Coastal Storm Surge Flood Hazard Area
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 - Zone Y: Coastal Storm Surge Flood Hazard Area
 - Zone Z: Coastal Storm Surge Flood Hazard Area
- OTHER FLOOD AREAS**
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- CONCRETE STRUCTURE PROTECTED SYSTEMS (CSPS)**
 - Zone 1: Concrete Structure Protected System
 - Zone 2: Concrete Structure Protected System
 - Zone 3: Concrete Structure Protected System
 - Zone 4: Concrete Structure Protected System
 - Zone 5: Concrete Structure Protected System
 - Zone 6: Concrete Structure Protected System
 - Zone 7: Concrete Structure Protected System
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- OTHER SPECIAL FLOOD AREAS**
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- UNDEVELOPED PROTECTED AREAS (UPA)**
 - Zone 1: Undeveloped Protected Area
 - Zone 2: Undeveloped Protected Area
 - Zone 3: Undeveloped Protected Area
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 - Zone 6: Undeveloped Protected Area
 - Zone 7: Undeveloped Protected Area
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- OTHER FLOOD AREAS**
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- OTHER FLOOD AREAS**
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 - Zone 14: Other Flood Area
 - Zone 15: Other Flood Area
 - Zone 16: Other Flood Area
 - Zone 17: Other Flood Area
 - Zone 18: Other Flood Area
 - Zone 19: Other Flood Area
 - Zone 20: Other Flood Area

Scale: 1 inch = 1 mile

MAP NUMBER 3067C3DAP

EFFECTIVE DATE NOVEMBER 4, 2016

FIRM FLOOD INSURANCE RATE MAP

ONONDAGA COUNTY, NEW YORK (ALL FLOOD ZONES)

PANEL 343 OF 330

3067C3DAP

NOVEMBER 4, 2016

Federal Emergency Management Agency

Let's Try Interactive Map Instead

The buttons below let you view and print the selected flood map, download the flood map image, open an interactive flood map (if available), or expand the search to all products to view effective, preliminary, pending, or historic maps, and risk products for the community. The locator map shows flood map boundaries in your area of interest. You can choose a new flood map by clicking elsewhere on the locator map or entering a new location in the search box.

Search Results—Products for **FAYETTEVILLE, VILLAGE OF**

The flood map for the selected area is number **36067C0242F**, effective on **11/04/2016**

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[INTERACTIVE MAP](#)
[Show all products for this area](#)

Letters of Map Change

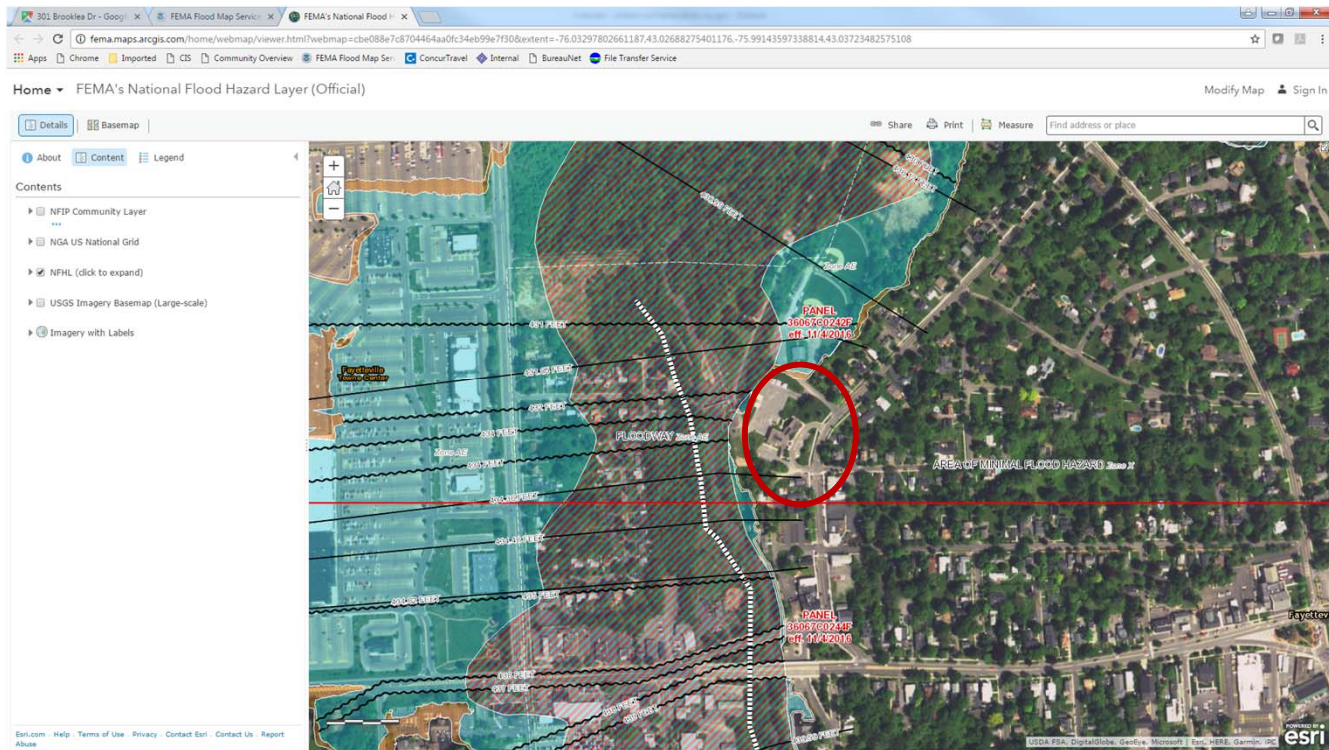
- Revisions (0)
- Amendments (0)
- Revalidations (1)

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Interactive Web Based GIS Map



Add Your Own GIS Layers

> Filter By Posting Date Range *(Optional)*

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Search Results for FAYETTEVILLE, VILLAGE OF

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 - FIRM Panels (6) DLALL
 - FIS Reports (5) DLALL
 - LOMC (2)
 - NFHL Data-State (1)
 - NFHL Data-County (1)
- Preliminary Products (0) ?
- Pending Product (0) ?
- Historic Products (9) ?
- Flood Risk Products (0) ?

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Official website of the Department of Homeland Security

Challenging Flood Determinations

Flood Determinations

Required by Federally Regulated Lenders as a Condition of a Mortgage

Flood Insurance Required by lender if Structure is Fully or Partially in Special Flood Hazard Area (SFHA)

Flood Insurance May Be required by lender for any structure
Closing Fee Pays for Determination

Flood Determinations: Map Revisions

Determination Companies do Life of Loan Tracking
Results of 2012 Survey: 9 Determination Companies

(Source: National Flood Determination Association survey)

Number of Life of Loan Certificates Impacted by Map Revision	15,646,475
Number of Life of Loan Certificates that Experienced Status Change as a Result of Map Revision	336,232
Life of Loan Certificate Revisions with Status Change from OUT to IN SFHA	222,179
Life of Loan Certificate Revisions with Status Change from IN to OUT of SFHA	111,587
Life of Loan Certificate Revisions with No Change in Status, Remaining OUT of SFHA	10,565,329
Life of Loan Certificate Revisions with No Change in Status, Remaining IN a SFHA	485,687

Onondaga County Parcel Centroid Counts - Comparing 6/30/2008 Preliminary vs. Effective FIRMs			
Parcels	Added	Removed	Total Added
City of Syracuse	976	233	743
Town of Camillus	69	106	-37
Town of Cicero	136	419	-283
Town of Clay	60	159	-99
Town of Dewitt	51	73	-22
Town of Elbridge	56	56	0
Town of Fabius	65	50	15
Town of Geddes	22	27	-5
Town of Lafayette	49	23	26
Town of Lysander	183	190	-7
Town of Manlius	227	582	-355
Town of Marcellus	13	44	-31
Town of Onondaga	60	66	-6
Town of Otisco	2	63	-61
Town of Pompey	36	20	16
Town of Salina	80	88	-8
Town of Skaneateles	11	40	-29
Town of Spafford	13	77	-64
Town of Tully	21	35	-14
Town of Van Buren	74	8	66
Village of Baldwinsville	27	16	11
Village of Camillus	4	25	-21
Village of East Syracuse	59	39	20
Village of Elbridge	1	5	-4
Village of Fabius	0	0	0
Village of Fayetteville	7	5	2
Village of Jordan	11	52	-41
Village of Liverpool	9	1	8
Village of Manlius	19	72	-53
Village of Marcellus	3	13	-10
Village of Minoa	1	81	-80
Village of North Syracuse	3	0	3
Village of Skaneateles	11	4	7
Village of Solvay	8	0	8
Village of Tully	16	6	10
Total Onondaga County	2,383	2,678	-295



Mapping Discrepancies or Conflicts

Flood Map Limitations

Properties on Edge of Flood Zone

- Survey and Map may have Different Result

Development and Natural Process Change Flood Zone

Map Features can be Incorrectly Located

Property Owner Disputes

Contact Lender

Provide Documentation

Lender can request determination company to review

Property Owner Disputes: Next Step

Request Flood Hazard Determination Review from FEMA

- Joint Lender/Property Owner Request

FEMA will Make Determination within 45 Days of Receipt of Necessary Data

Policy Refund Available if No Claim has been Made

Review only Considers Location on Map; Not Elevations

What to Submit

Copy of Completed Flood Hazard Determination Form from Lender

Notification from Lender that Property is in SFHA

Annotated FIRM panel

Materials Used by Lender for Determination

Letter to FEMA Requesting Review

\$80 Fee

Timing

Must Submit within 45 Days of Notification by Lender

Mail to

LOMC Clearinghouse
847 South Pickett St.,
Alexandria, VA 12304-4645

FEMA Will Respond within 45 Days

Questions: 1-877-336-2627

LOMA May be Better Path

Letters of Map Change

For Elevation Based Determinations

To Fine Tune the Determination

To Show Changes to the Floodplain or Flood Elevation

Types of Letters of Map Change

Letter of Map Amendment: LOMA

Letter of Map Revision: LOMR

Letter of Map Revision Based on Fill: LOMR-F

Conditional LOMA's, LOMR's and LOMR-F's

Physical Map Revision (Revised Map)

Amendments

Used to exclude individual structures and legally described parcels of undeveloped land inadvertently included in the SFHA

Based on conditions prior to map date

Does NOT require review and approval of community

Does NOT require update of Maps or Regulations

Revisions

Changes to Maps to reflect better flood and non-flood information

Changes in floodplain conditions

Increased/Decreased flood heights

Longer period of record

Development pressures

Requires Community review and approval

May require update of maps and regulations

LOMA Form MT-EZ

Single Residential Lot or Structure

Community and Property Information

Date and Type of Construction

Recorders Stamped Subdivision Plat/Deed

FIRM & Cover with Site & Structures Plotted

Elevation Certificate or Elevation Information Form

LOMA's

Based on Natural Ground Elevations

File with FEMA; Address on Form

No Charge for LOMA Review

If Approximate A zone, fill out Lowest Adjacent Grade but leave BFE blank.

- In some cases DEC can help determine an approximate BFE
- FEMA may compute one based on best available topographic data. This is a desktop, computer analysis.

LOMA – Out as Shown

Use MT-EZ Form
Items to Include

- Deed
 - Map of Property and Structure with SFHA Boundaries Shown
 - Check with Municipal or County GIS or with DEC
 - FIRMette
- DEC has Detailed Guidance



Flood Insurance Issues

Flood Insurance Finances

	NYS, 11/10	NYS 8/12	NYS, 2/17	U.S., 2/17
Policies	162,965	167,455	184,435	5.0 million (300K fewer than 10/14)
Premiums	\$147 Million	\$157 Million	\$205 million	\$3.5 billion
Claim Payments	\$631 Million	\$1.2 Billion	\$5.3 Billion	\$56.0 billion
National NFIP Program Debt	\$18.8 billion before Sandy. \$25 billion now.			

- Prior to 2005, Program was largely self supporting.
- Policy structure not set up to handle catastrophic losses.
- Fund was never capitalized.
- 1% of policies represent 1/3 of all claims.
- Congress wants program to be on a sounder financial footing.
- It will take years to pay off debt (if ever).

Insurance Costs: Where you Live and Construction Type: 2016 Costs

Inside Special Flood Hazard Area		
April, 2016 Rates	Pre-FIRM with Basement (Subsidized)	Built to Code (Base Flood Elevation + 2')
A-Zone	\$1469 - \$3772	\$461 - \$628
Outside of Special Flood Hazard Area		
	Basement	No Basement
X-Zone	\$1151 - \$1924	\$999 - \$1556
Preferred Risk Policy	\$410-\$524	\$374-\$475

Assumptions: Minimum Deductible Flood Insurance Ranges from \$100,000 to \$250,000 Residential Coverage. No contents coverage except for Preferred Risk Policies.

Preferred Risk Policy:
 •B, C, or X Zone.
 •New "Newly Mapped Procedure"
 •No more than one flood insurance payment or flood relief payment of over \$1000 in 10 years.

Pre-FIRM Actuarial Costs Could be Up To \$9000 or more!



Department of
Environmental
Conservation

Flood Insurance: What's Going On?

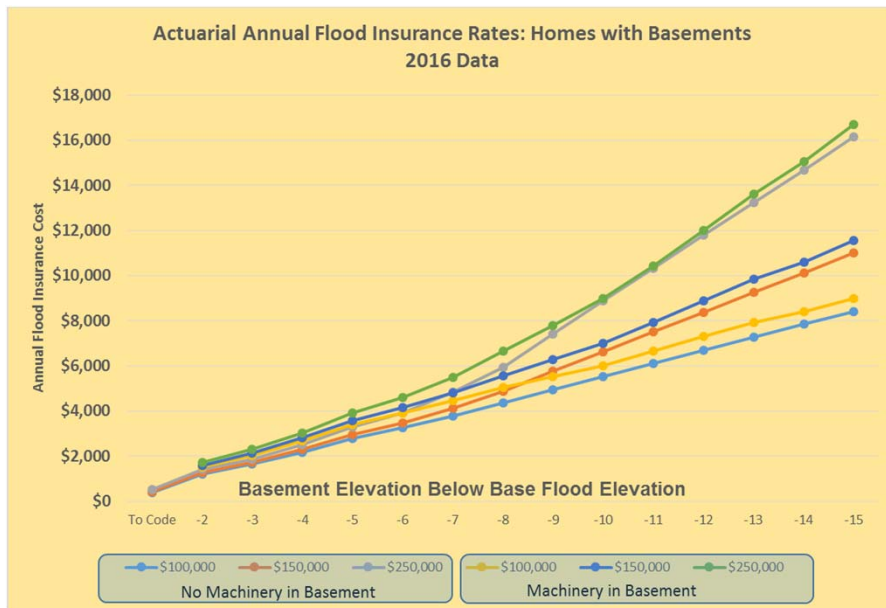
Biggert-Waters Flood Insurance Reform Act of 2012

- Phase Out of Many Subsidies
- Attempt to Address NFIP Debt
- Significant Push-Back

2014 Reform of the Reform

- Eliminates or Slows Down Some Rate Increases
- Creates Surcharge to Pay for Subsidized Rates

Actuarial Flood Insurance Rates



**Current Annual Pre-FIRM Rates:
Residential, Older than Flood Insurance
Program (@1980)**

Amount of Coverage		
\$100,000	\$150,000	\$250,000
\$1469	\$2194	\$3772

These Rates will go up About 15% to 18% Per Year until Actuarial Rate is Reached

Flood Insurance Guidance

Situation	What to Do
A Zone, Pre-FIRM	Use Pre-FIRM Policy; Rates are Going Up. Get Elevation Certificate to Determine Best Rate and/or Mitigation Options
A Zone, Post-FIRM	Actuarial Rate; If structure is Compliant, rates are reasonable. If not, rates can be very expensive. Consider bringing structure into compliance
A Zone, Newly Mapped	Eligible for Newly Mapped Procedure if covered within 12 months of effective date of new map: Map Date was 11/4/16
X Zone	No Mandatory Insurance Purchase Requirement. Banks <u>MAY</u> require flood insurance. Low cost “preferred risk policy” if no more than one claim in any ten year period.

Newly Mapped Procedure

- Must Meet Loss Criteria: No more than one claim over any 10 year period
- Must maintain continuous coverage
- Policy is transferable upon sale of property
- Must show evidence of current AND previous flood zone
 - Use Historic Map from Map Service Center, marked to show location of structure
 - Additional documentation may be required if property was close to flood zone on previous map
 - May require letter signed by Local Community Official

Newly Mapped Procedure

- Initial rating will be same as Preferred Risk Policy: about \$400 to \$500
- Structures that are not the primary residence of the owner pay an additional \$225
- Policies will go up about 15% per year until “X” zone rating is reached at about \$1200 to \$2000 per year under current rates, not counting contents

What about the Future?

- Congress changed Flood Insurance Laws in 2012 and 2014.
- Each change was significant and resulted in rates going up rapidly to address program debt and ability to cover claims
- NFIP expires in 2017. Congress will either make changes or pass a temporary renewal.
- Affordability is a major issue, as is the program debt
- Stay tuned; We don't know what will come out of the next change.

Thank You

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- 518-402-8185

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