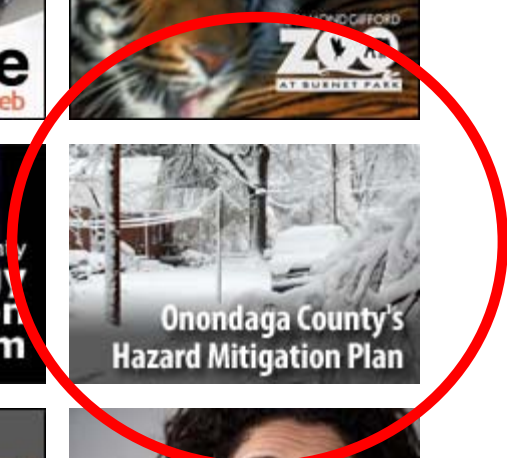
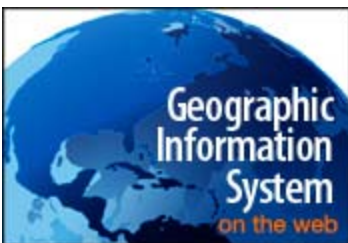
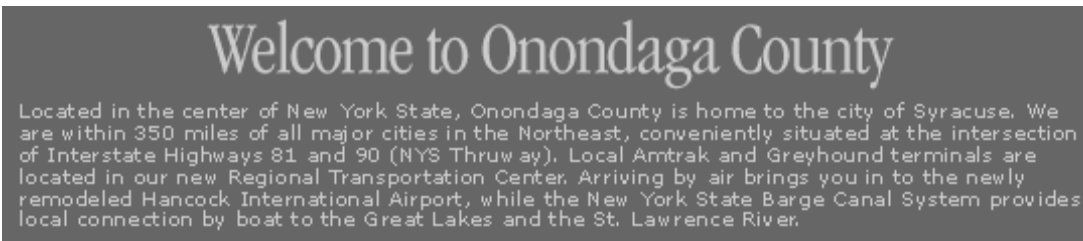


This Appendix provides available documentation of public and stakeholder outreach, and includes:

- Screenshots of the Public Hazard Mitigation Website and online Natural Hazards Citizens Preparedness Questionnaire (Citizen Survey)
- Media release on the County planning effort
- Documentation of outreach to Oswego, Cayuga, Madison Counties
- Summary results of the Citizen Survey and other public and stakeholder input

Stakeholder involvement in this planning process has been broad and productive as discussed in Section 3 (Planning Process). Stakeholder input has been incorporated throughout this Plan document as identified in the references, as well as within specific mitigation initiatives identified in Volume II, Section 9.



# Syracuse-Onondaga County Planning Agency

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## Hazard Mitigation

[Click here](#) to review draft sections of the plan.

### Background

Through a grant from the Federal Emergency Management Agency (FEMA), SOCPA is leading the creation of a comprehensive, multi-jurisdictional hazards-mitigation plan for the County and its municipalities.

Onondaga County Multi-Jurisdictional Hazard Mitigation Plan Mission: *protect the health, safety, property, environment and economy of the communities within Onondaga County by partnering to identify and reduce our vulnerability to natural hazards in a proactive and efficient manner.*

[Click here](#) for the **CITIZEN PREPAREDNESS QUESTIONNAIRE**.

The creation of this plan will allow the County and participating municipalities to be eligible for future mitigation funding from the Federal Emergency Management Agency (FEMA). This is an opportunity for the County to create a detailed plan that will address a variety of potential hazards that could affect some or all of our citizens.

The goal of the plan is to identify projects that can reduce damages from future natural hazards. The plan will include a risk assessment and a hazard-mitigation strategy. The primary hazard in Onondaga County is flooding, but other potential hazards to be analyzed include severe storms, severe winter storms, landslides, and wildfire.

The study will focus on existing and future buildings, and infrastructure and critical facilities that might be impacted. Infrastructure includes power-generation facilities, water utilities, roadways, railroads and communication systems. Critical facilities include shelters and hospitals.

[Click here](#) for more information.



[Project Catalog  
For Annex Table F](#)

[FEMA  
Hazard Mitigation  
Assistance Grants  
Summary Sheet](#)

[Click here](#) for the  
**CITIZEN PREPAREDNESS  
QUESTIONNAIRE**

A series of public meetings will be part of the plan development process, both to solicit public comment and to present the draft plan to residents and local officials.

[Press Release - August 2009](#)

[Click here](#) to review draft sections of the plan.

## General Information

### Disaster Mitigation Act of 2000

The [Disaster Mitigation Act of 2000](#) (DMA 2000) is federal legislation that establishes a pre-disaster hazard mitigation program and new requirements for the national post-disaster Hazard Mitigation Grant Program (HMGP). DMA 2000 encourages and rewards local and state pre-disaster planning, promotes sustainability, and seeks to integrate state and local planning with an overall goal of strengthening statewide hazard mitigation planning. This enhanced planning approach enables local, tribal, and state governments to articulate accurate and specific needs for hazard mitigation, which results in faster, more efficient allocation of funding and more effective risk reduction projects.

### What is Hazard Mitigation?

Hazard Mitigation is any action taken to reduce the loss of life and property by lessening the impact of disasters (natural, technological and man-made). It is often considered the first of the four phases of emergency management: mitigation, preparedness, response and recovery.

Mitigation measures fall into the following six general categories:

**Prevention:** Achieved through planning and zoning, open space preservation, and development regulations, building codes, storm water management, fire fuel reduction, soil erosion, and sediment control.

**Property Protection:** Achieved through acquisition, relocation, storm shutters, rebuilding, barriers, flood proofing, insurance, and structural retrofits for high winds and earthquake hazards.

**Public Education and Awareness:** Achieved through outreach projects, real estate disclosure, hazard information centers, technical assistance, and school age and adult education programs.

**Natural Resource Protection:** Achieved through erosion and sediment control, stream corridor protection, vegetative management, and wetlands preservation.

**Emergency Services:** Achieved through hazard threat recognition, hazard warning systems, emergency response, protection of critical facilities, and health and safety maintenance.

**Structural Projects:** Achieved through dams, levees, seawalls, bulkheads, revetments, high flow diversions, spillways, buttresses, debris basins, retaining walls, channel modifications, storm sewers, and retrofitted buildings and elevated roadways (seismic protection).

## What is a Hazard Mitigation Plan?

FEMA defines a Hazard Mitigation Plan as the documentation of a state or local government's evaluation of natural hazards and the strategies to mitigate such hazards.

Hazard mitigation planning is the process of determining how to reduce or eliminate the loss of life and property damage resulting from natural hazards. Section 322 of the DMA 2000 specifically addresses mitigation planning at the state and local levels. FEMA has promulgated hazard mitigation planning regulations pursuant to the DMA 2000. These regulations identify four essential phases to mitigation planning: 1) organize resources, 2) assess risks, 3) develop mitigation plan, and 4) implement mitigation plan and monitor progress.

Onondaga County is preparing a Multi-Jurisdictional All-Hazard Mitigation Plan. The Plan will demonstrate the County's and participating jurisdictions' commitment to reducing risk and serve as a guide for decision makers as they commit resources to minimize the effects of natural hazards.

## How Does the Plan Benefit Onondaga County?

A hazard mitigation plan will assist Onondaga County with the following:

- An increased understanding of natural hazards the County faces.

- Development of more sustainable and disaster-resistant communities.

- Eligibility for federal funds for pre-disaster mitigation planning (DMA 2000).

- Partnerships that support planning and mitigation efforts and may offer potential financial savings:

- Flood Insurance premium reductions

- Broader resources for funding of mitigation projects

- Enhanced benefit-cost ratios for COE projects.

- Reduced long-term impacts and damages to human health and structures, and reduced repair costs.

Proactive mitigation leads to sustainable, more cost-effective projects. By contrast, reactive mitigation tends to lead to the "quick fix" alternatives; it simply costs too much to address the effects of disasters only after they happen. A surprising amount of damage can be prevented if the County anticipates where and how disasters will occur, and takes steps to mitigate those damages.

Steering Committee

The role of the Steering Committee is to provide guidance and direction to the planning effort and to ensure the resulting document will be embraced by each participating jurisdiction. The Steering Committee will provide leadership, oversee the planning process, and act as the point of contact for all participating communities and the various interest groups in the planning area. The makeup of this committee was selected to provide a cross section of views to enhance the planning effort and to help build support for hazard mitigation.

## Planning Partnership

The Onondaga County Hazard Mitigation Planning Partnership consists of members of the Steering Committee along with representatives from each participating jurisdiction. Each jurisdictional representative serves as the point of contact for their community, and is responsible for assuring that the interests and concerns of their community are represented in the planning process.

# Syracuse-Onondaga County Planning Agency

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## Onondaga County Multi-Jurisdictional Hazard Mitigation Plan (HMP) - Interim Draft Plan

Onondaga County is currently in the process of developing a draft HMP for the County and participating municipalities. Interim draft sections of the Plan are available below, as they become available. Please note that these sections are considered "work in progress," and may be edited and updated at any time.

We welcome and encourage your input to this planning project, and ask that any comment or input be forwarded to:

Megan Costa  
Syracuse-Onondaga County Planning Agency  
John H. Mulroy Civic Center  
421 Montgomery Street - 11th Floor  
Syracuse, NY 13202

Phone: 315-435-2611  
Email: [megancosta@ongov.net](mailto:megancosta@ongov.net)

### Interim Draft Plan

[Cover and Spine](#)  
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#### VOLUME I

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Summary Sheet](#)

Click here for the  
[CITIZEN PREPAREDNESS  
QUESTIONNAIRE](#)

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- Section 2 - Plan Adoption
- Section 3 - Planning Process
- Section 4 - County Profile
- Section 5 - Introduction
  - 5.1 - Methodology and Tools
  - 5.2 - Hazards of Concern
  - 5.3 - Hazard Ranking
  - 5.4 - Introduction to Profiles
    - 5.4.1 - Severe Storm
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    - 5.4.3 - Flood
    - 5.4.4 - Ground Failure
    - 5.4.5 - Earthquake
- Section 6 - Mitigation Strategies
- Section 7 - Plan Maintenance
- Acronyms and Abbreviations
- Glossary
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  - 9.1 - Onondaga County
  - 9.2 - Village of Baldwinsville
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  - 9.5 - Town of Cicero
  - 9.6 - Town of Clay
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  - 9.14 - Town of Geddes
  - 9.15 - Village of Jordan
  - 9.16 - Town of LaFayette
  - 9.17 - Village of Liverpool
  - 9.18 - Town of Lysander
  - 9.19 - Town of Manlius



- 9.20 - Village of Manlius
- 9.21 - Town of Marcellus
- 9.22 - Village of Marcellus
- 9.23 - Village of Minoa
- 9.24 - Village of North Syracuse
- 9.25 - Town of Onondaga
- 9.26 - Town of Otisco
- 9.27 - Town of Pompey
- 9.28 - Town of Salina
- 9.29 - Town of Skaneateles
- 9.30 - Village of Skaneateles
- 9.31 - Village of Solvay
- 9.32 - Town of Spafford
- 9.33 - City of Syracuse
- 9.34 - Town of Tully
- 9.35 - Village of Tully
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**APPENDICES**

- A - Federal and State Regulations
- B - Sample Adoption Resolution
- C - Meeting Documentation
- D - Public and Stakeholder Outreach
- E - Mitigation Catalog
- F - Federal Mitigation Programs, Activities, and Ini
- G - Jurisdictional Annex Instructions and Template
- H - FEMA 386-4 Guidance Worksheets
- I - Linkage Procedures
- J - Minutes of Meeting

## 1. Onondaga County Hazard Mitigation - Citizen Survey

CITIZEN PREPAREDNESS QUESTIONNAIRE - A regional planning partnership of municipalities, agencies and stakeholders has recently been established to address natural hazards that may occur in Onondaga County. A steering committee has been selected to oversee this process. In order to identify and plan for future natural disasters, we need assistance from the residents of Onondaga County. This questionnaire is designed to gauge the level of knowledge local citizens have about natural-disaster issues and areas vulnerable in your community to any type of natural disaster. The information you provide will help coordinate activities to reduce the risk of injury or property damage in the future.

You will be asked if your home is located in a floodplain. If you do not know, or are not sure, please check the following sources:

Onondaga County Online Mapping: <http://www.maphost.com/syracuse-onondaga/>

FEMA NFIP Website: <http://www.floodsmart.gov>

The "One-Step Flood Risk Profile" provides a quick indication of your location with respect to delineated floodplains.

This survey consists of 22 questions and will take approximately 10 minutes to complete.

## 2. General Household Information

The following requested demographic information will aid the steering committee in determining the hazard mitigation needs of our various communities.

The answers provided in this section will be treated as CONFIDENTIAL and will be used solely for the preparation of this plan and will not be provided to any other group or interest.

### 1. Please indicate your age range:

18 to 30

31 to 40

41 to 50

51 to 60

60 or over

### 2. Please indicate in what municipality you live in Onondaga County:

City of Syracuse

Town of Marcellus

Village of Elbridge

Onondaga Nation Territory

Town of Onondaga

Village of Fabius

Town of Camillus

Town of Otsico

Village of Fayetteville

Town of Cicero

Town of Pompey

Village of Jordan

Town of Clay

Town of Salina

Village of Liverpool

Town of DeWitt

Town of Skaneateles

Village of Manlius

Town of Elbridge

Town of Spafford

Village of Marcellus

Town of Fabius

Town of Tully

Village of Minoa

Town of Geddes

Town of Van Buren

Village of North Syracuse

Town of LaFayette

Village of Baldwinsville

Village of Skaneateles

Town of Lysander

Village of Camillus

Village of Solvay

Town of Manlius

Village of East Syracuse

Village of Tully

### 3. How long have you lived in Onondaga County?

Less than 1 year

1 to 5 years

6 to 9 years

10 to 19 years

20 years or more

### 4. Do you own or rent your place of residence?

Own

Rent

### 5. What is your zip code?

### 6. What is your home address? (optional, will be kept confidential - only used to identify localized hazard areas such as flooding)

### 3. Natural Hazard Information

7. Please rank how prepared you feel you and your household are for the probable impacts of natural hazard events likely to occur within Onondaga County. Rank on a scale of 1 to 5, with 5 representing the most prepared.

1 (least)

2

3

4

5 (Most)

8. Why do you think you are prepared for the probable impacts from natural hazard events that may occur with Onondaga County? (Please check all that apply)

- Emergency preparedness information from a government source (e.g., federal, state, or local emergency management)
- Locally provided news or other media information
- Schools and other academic institutions
- Attended meetings that have dealt with disaster preparedness
- Other (please specify)

9. In the past 10 years, which of the following types of natural hazard events have you or someone in your household experienced within Onondaga County and how concerned are you about the following natural hazards impacting Onondaga County? (In the first column indicate if you have experience the hazard then indicate your level of concern).

	Have Experience	Not Concerned	Somewhat Concerned	Very Concerned	Extremely Concerned
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Epidemic/Pandemic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Temperatures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Property	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Basement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - 1st Floor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Above 1st Floor	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flooding - Street	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ice Jam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ice Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Infestation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence/Sinkholes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nor-Easters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Storms (Wind, Lightning, Tornado, Hail)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storms (Blizzard, Heavy Snow)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Information on the impacts of and how to prepare for a natural disaster can be disseminated to the public in various ways. Of the information sources below, please identify the top three (3) that would be MOST EFFECTIVE in providing you with information to make your home safer and better able to withstand the impact of natural hazard events.

- Newspaper - Syracuse Post Standard
- Newspaper - Other
- Telephone Book
- Informational Brochures
- Public Meetings
- Workshops
- Schools
- TV News
- TV Advertising
- Radio News
- Radio Advertisements
- Outdoor Advertisements
- Internet
- Chamber of Commerce
- Fire Department/EMS Agency
- Academic Institutions
- Public Awareness Event
- Church
- Books
- Public Library

Other (please specify)

11. To the best of your knowledge is your property located in a designated floodplain?

Yes

No

Not Sure

12. Do you have flood insurance?

Yes

No

13. If you do NOT have flood insurance, what is the primary reason?

I don't need it/my property has never flooded

Insurance company will not provide

Don't need it/my house is not in the floodplain

My homeowners insurance will cover me

It is too expensive

It is not worth it

Not familiar with it/don't know about it

14. Do you or did you have problems getting homeowners/renters insurance due to risks from natural hazards?

Yes

No

15. If you answered "yes" to the previous question, please identify the natural hazard risk that caused you to have problems obtaining homeowners/renters insurance.

## 4. Natural Hazard Mitigation

The term mitigation means to make something become less harsh or severe, to alleviate. Mitigation activities are those types of actions you can take to protect your home and property from natural hazard events such as floods, severe storms and wildfires. Onondaga County is preparing an All-Natural Hazard Mitigation Plan to formulate and document mitigation strategies that will aid our community in protecting life and property from the impacts of future natural disasters. The following section will attempt to determine the level of knowledge citizens have about their options to protect their property from natural disasters.

16. Did you consider the impact a natural disaster could have on your home before you purchased/moved into your home?

Yes

No

17. Was the presence of a natural hazard risk zone (i.e. flood zone, sink hole/mining area) disclosed to you by a Real Estate Agent, Seller, or landlord before you purchased/moved into your home?

Yes

No

18. Would the disclosure of this type of information influence your decision to purchase/move into a home?

yes

No

19. How much money would you be willing to spend on your current home to retrofit it from the impacts of future possible natural disasters within your community? (Examples of retrofitting are: Elevating a flood-prone home, elevating utilities in floodprone basements, creating a defensible space around your home to mitigate wildfire risk)

\$5,000 or above

\$100 to \$499

\$2,500 to \$4,999

Less than \$100

\$1,000 to \$2,499

Nothing

\$500 to \$999

Don't know

20. Which of the following incentives would help to encourage you to spend money to retrofit your home from the possible impacts of natural disasters? (Please check all that apply)

Building permit fee waiver

Mortgage discount

Insurance premium discount

Grant funding that requires a "cost-share"

Low interest rate loan

None

Property tax break or incentive

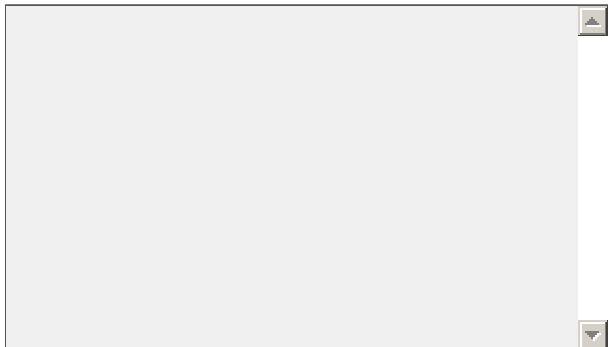
Other (please specify)

21. If your property were located in a designated "high hazard" area, or had received repeated damages from a natural hazard event, would you consider a "buyout", elevation of the structure, or relocation offered by a public agency?


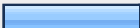
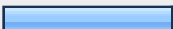

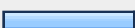
Yes

No

22. Other Comments:

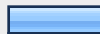


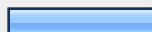
























# Onondaga County






1. Please indicate your age range:			Response Percent	Response Count
18 to 30			7.4%	10
31 to 40			20.6%	28
41 to 50			25.7%	35
<b>51 to 60</b>			<b>26.5%</b>	<b>36</b>
60 or over			19.9%	27
		<i>answered question</i>		<b>136</b>
		<i>skipped question</i>		<b>1</b>





2. Please indicate in what municipality you live in Onondaga County:

		Response Percent	Response Count
City of Syracuse		14.0%	19
Onondaga Nation Territory		0.0%	0
Town of Camillus		5.1%	7
Town of Cicero		8.1%	11
<b>Town of Clay</b>		<b>22.1%</b>	<b>30</b>
Town of DeWitt		5.1%	7
Town of Elbridge		1.5%	2
Town of Fabius		0.7%	1
Town of Geddes		3.7%	5
Town of LaFayette		2.2%	3
Town of Lysander		2.2%	3
Town of Manlius		3.7%	5
Town of Marcellus		1.5%	2
Town of Onondaga		6.6%	9
Town of Otsico		0.7%	1
Town of Pompey		2.2%	3
Town of Salina		5.9%	8
Town of Skaneateles		1.5%	2
Town of Spafford		0.7%	1
Town of Tully		0.7%	1
Town of Van Buren		2.2%	3
Village of Baldwinsville		0.0%	0
Village of Camillus		0.0%	0
Village of East Syracuse		0.0%	0

Village of Elbridge		0.7%	1
Village of Fabius		0.0%	0
Village of Fayetteville		3.7%	5
Village of Jordan		0.0%	0
Village of Liverpool		0.0%	0
Village of Manlius		0.7%	1
Village of Marcellus		0.0%	0
Village of Minoa		0.7%	1
Village of North Syracuse		2.9%	4
Village of Skaneateles		0.0%	0
Village of Solvay		0.7%	1
Village of Tully		0.0%	0
		<b>answered question</b>	<b>136</b>
		<b>skipped question</b>	<b>1</b>






<b>3. How long have you lived in Onondaga County?</b>			
		<b>Response Percent</b>	<b>Response Count</b>
Less than 1 year		4.4%	6
1 to 5 years		4.4%	6
6 to 9 years		5.9%	8
10 to 19 years		11.1%	15
<b>20 years or more</b>		<b>74.1%</b>	<b>100</b>
		<b>answered question</b>	<b>135</b>
		<b>skipped question</b>	<b>2</b>

4. Do you own or rent your place of residence?			Response Percent	Response Count
Own			86.0%	117
Rent			14.0%	19
			<i>answered question</i>	136
			<i>skipped question</i>	1

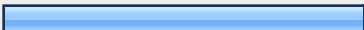
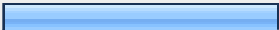
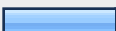
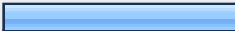

5. What is your zip code?			Response Count	
			135	
			<i>answered question</i>	135
			<i>skipped question</i>	2

6. What is your home address? (optional, will be kept confidential - only used to identify localized hazard areas such as flooding)			Response Count	
			88	
			<i>answered question</i>	88
			<i>skipped question</i>	49

7. Please rank how prepared you feel you and your household are for the probable impacts of natural hazard events likely to occur within Onondaga County. Rank on a scale of 1 to 5, with 5 representing the most prepared.

		Response Percent	Response Count
1 (least)		5.2%	6
2		15.7%	18
3		33.0%	38
4		35.7%	41
5 (Most)		10.4%	12
		<i>answered question</i>	<b>115</b>
		<i>skipped question</i>	<b>22</b>

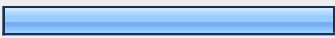


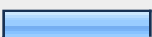



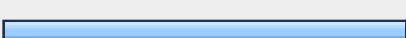

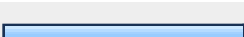


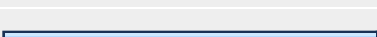

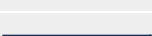





8. Why do you think you are prepared for the probable impacts from natural hazard events that may occur with Onondaga County? (Please check all that apply)


		Response Percent	Response Count
Emergency preparedness information from a government source (e.g., federal, state, or local emergency management)		55.7%	59
Locally provided news or other media information		42.5%	45
Schools and other academic institutions		17.0%	18
Attended meetings that have dealt with disaster preparedness		35.8%	38
Other (please specify)		33.0%	35
		<i>answered question</i>	<b>106</b>
		<i>skipped question</i>	<b>31</b>



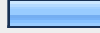
**9. In the past 10 years, which of the following types of natural hazard events have you or someone in your household experienced within Onondaga County and how concerned are you about the following natural hazards impacting Onondaga County? (In the first column indicate if you have experience the hazard then indicate your level of concern).**


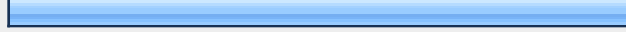
	Have Experience	Not Concerned	Somewhat Concerned	Very Concerned	Extremely Concerned	Response Count
Dam Failure	1.2% (1)	<b>92.8% (77)</b>	4.8% (4)	0.0% (0)	2.4% (2)	83
Drought	6.0% (5)	<b>67.5% (56)</b>	27.7% (23)	4.8% (4)	0.0% (0)	83
Earthquake	13.1% (11)	<b>66.7% (56)</b>	27.4% (23)	2.4% (2)	1.2% (1)	84
Epidemic/Pandemic	5.9% (5)	8.2% (7)	<b>56.5% (48)</b>	27.1% (23)	7.1% (6)	85
Extreme Temperatures	22.8% (21)	40.2% (37)	<b>46.7% (43)</b>	7.6% (7)	1.1% (1)	92
Flooding - Property	13.5% (12)	<b>47.2% (42)</b>	37.1% (33)	10.1% (9)	1.1% (1)	89
Flooding - Basement	25.5% (24)	25.5% (24)	<b>45.7% (43)</b>	20.2% (19)	3.2% (3)	94
Flooding - 1st Floor	3.5% (3)	<b>77.6% (66)</b>	8.2% (7)	10.6% (9)	1.2% (1)	85
Flooding - Above 1st Floor	2.4% (2)	<b>82.1% (69)</b>	9.5% (8)	4.8% (4)	1.2% (1)	84
Flooding - Street	13.8% (12)	<b>44.8% (39)</b>	40.2% (35)	8.0% (7)	2.3% (2)	87
Ice Jam	8.3% (7)	<b>61.9% (52)</b>	28.6% (24)	6.0% (5)	0.0% (0)	84
Ice Storm	<b>44.9% (48)</b>	5.6% (6)	43.9% (47)	31.8% (34)	9.3% (10)	107
Infestation	2.4% (2)	<b>57.3% (47)</b>	34.1% (28)	4.9% (4)	3.7% (3)	82
Land Subsidence/Sinkholes	3.6% (3)	<b>72.6% (61)</b>	16.7% (14)	6.0% (5)	2.4% (2)	84
Landslide	1.2% (1)	<b>81.5% (66)</b>	13.6% (11)	1.2% (1)	2.5% (2)	81
Nor-Easters	<b>47.7% (51)</b>	14.0% (15)	42.1% (45)	24.3% (26)	9.3% (10)	107
Severe Storms (Wind, Lightning, Tornado, Hail)	<b>60.6% (66)</b>	6.4% (7)	41.3% (45)	29.4% (32)	9.2% (10)	109
Severe Winter Storms (Blizzard, Heavy Snow)	<b>59.5% (66)</b>	7.2% (8)	38.7% (43)	24.3% (27)	13.5% (15)	111
Wildfire	0.0% (0)	<b>79.3% (65)</b>	12.2% (10)	7.3% (6)	3.7% (3)	82
Other	6.0% (3)	<b>84.0% (42)</b>	8.0% (4)	2.0% (1)	4.0% (2)	50
	<b>answered question</b>					<b>115</b>

10. Information on the impacts of and how to prepare for a natural disaster can be disseminated to the public in various ways. Of the information sources below, please identify the top three (3) that would be MOST EFFECTIVE in providing you with information to make your home safer and better able to withstand the impact of natural hazard events.

		Response Percent	Response Count
Newspaper - Syracuse Post Standard		50.9%	59
Newspaper - Other		5.2%	6
Telephone Book		2.6%	3
Informational Brochures		22.4%	26
Public Meetings		11.2%	13
Workshops		11.2%	13
Schools		12.1%	14
<b>TV News</b>		<b>62.1%</b>	<b>72</b>
TV Advertising		8.6%	10
Radio News		37.1%	43
Radio Advertisements		6.0%	7
Outdoor Advertisements		4.3%	5
Internet		57.8%	67
Chamber of Commerce		1.7%	2
Fire Department/EMS Agency		22.4%	26
Academic Institutions		3.4%	4
Public Awareness Event		12.9%	15
Church		1.7%	2
Books		2.6%	3
Public Library		4.3%	5

Other (please specify)		8.6%	10
		<b>answered question</b>	<b>116</b>
		<b>skipped question</b>	<b>21</b>

11. To the best of your knowledge is your property located in a designated floodplain?			
		Response Percent	Response Count
yes		2.6%	3
<b>No</b>		<b>83.5%</b>	<b>96</b>
Not Sure		13.9%	16
		<b>answered question</b>	<b>115</b>
		<b>skipped question</b>	<b>22</b>

12. Do you have flood insurance?			
		Response Percent	Response Count
Yes		4.3%	5
<b>No</b>		<b>95.7%</b>	<b>110</b>
		<b>answered question</b>	<b>115</b>
		<b>skipped question</b>	<b>22</b>

13. If you do NOT have flood insurance, what is the primary reason?			Response Percent	Response Count
I don't need it/my property has never flooded			22.4%	24
<b>Don't need it/my house in not in the floodplain</b>			<b>58.9%</b>	<b>63</b>
It is too expensive			5.6%	6
Not familiar with it/don't know about it			7.5%	8
Insurance company will not provide			1.9%	2
My homeowners insurance will cover me			0.9%	1
It is not worth it			2.8%	3
		<i>answered question</i>		<b>107</b>
		<i>skipped question</i>		<b>30</b>

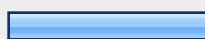
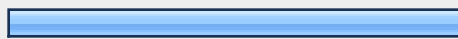
14. Do you or did you have problems getting homeowners/renters insurance due to risks from natural hazards?			Response Percent	Response Count
Yes			1.7%	2
<b>No</b>			<b>98.3%</b>	<b>114</b>
		<i>answered question</i>		<b>116</b>
		<i>skipped question</i>		<b>21</b>




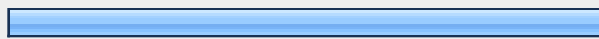
**15. If you answered "yes" to the previous question, please identify the natural hazard risk that caused you to have problems obtaining homeowners/renters insurance.**

		Response Count
		2
	<i>answered question</i>	2
	<i>skipped question</i>	135

**16. Did you consider the impact a natural disaster could have on your home before you purchased/moved into your home?**

		Response Percent	Response Count
Yes		30.3%	33
No		69.7%	76
		<i>answered question</i>	109
		<i>skipped question</i>	28

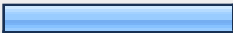

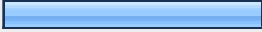
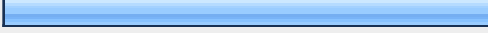




**17. Was the presence of a natural hazard risk zone (i.e. flood zone, sink hole/mining area) disclosed to you by a Real Estate Agent, Seller, or landlord before you purchased/moved into your home?**

		Response Percent	Response Count
Yes		8.5%	9
No		91.5%	97
		<i>answered question</i>	106
		<i>skipped question</i>	31

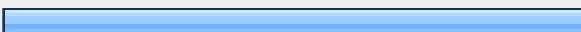

18. Would the disclosure of this type of information influence your decision to purchase/move into a home?			Response Percent	Response Count
yes			89.9%	98
No			10.1%	11
			<i>answered question</i>	<b>109</b>
			<i>skipped question</i>	<b>28</b>

19. How much money would you be willing to spend on your current home to retrofit it from the impacts of future possible natural disasters within your community? (Examples of retrofitting are: Elevating a flood-prone home, elevating utilities in floodprone basements, creating a defensible space around your home to mitigate wildfire risk)			Response Percent	Response Count
\$5,000 or above			11.0%	12
\$2,500 to \$4,999			9.2%	10
\$1,000 to \$2,499			5.5%	6
\$500 to \$999			9.2%	10
\$100 to \$499			6.4%	7
Less than \$100			0.0%	0
Nothing			18.3%	20
Don't know			40.4%	44
			<i>answered question</i>	<b>109</b>
			<i>skipped question</i>	<b>28</b>

20. Which of the following incentives would help to encourage you to spend money to retrofit your home from the possible impacts of natural disasters? (Please check all that apply)

		Response Percent	Response Count
Building permit fee waiver		35.2%	38
Insurance premium discount		68.5%	74
Low interest rate loan		39.8%	43
<b>Property tax break or incentive</b>		<b>75.0%</b>	<b>81</b>
Mortgage discount		31.5%	34
Grant funding that requires a "cost-share"		51.9%	56
None		9.3%	10
Other (please specify)		2.8%	3
		<i>answered question</i>	<b>108</b>
		<i>skipped question</i>	<b>29</b>

21. If your property were located in a designated "high hazard" area, or had received repeated damages from a natural hazard event, would you consider a "buyout", elevation of the structure, or relocation offered by a public agency?

		Response Percent	Response Count
Yes		89.7%	96
No		10.3%	11
		<i>answered question</i>	<b>107</b>
		<i>skipped question</i>	<b>30</b>

22. Other Comments:		
		Response Count
		15
	<i>answered question</i>	15
	<i>skipped question</i>	122

Open ended responses to Question #22 of Survey – As of April 30, 2010

Sep 11 2009  
6:40 PM Keep up the efforts this is a great start.

Sep 11 2009  
7:14 PM Surveys of this type are usually too generic or hypothetical to generate viable results, but it's a good starting point.

Sep 11 2009  
7:27 PM I believe that we need to educate the public a lot more than what we are currently doing.  
Having lived in PA during Agnes flooding in 1972 I am very aware of potential flooding.

Sep 11 2009  
10:37 PM Having lived in TN I am all too aware of hurricanes. Can you tell why I live in Upstate NY?

Sep 12 2009  
12:18 AM I can't fix the house if I can't find a job.  
I have food and water on hand in my basement. I have a spare sump pump ready. I also have a stand by generator that starts within 15 seconds so my lights are not a factor. The generator runs on natural gas so I do not have to fuel it. I have 4 natural gas space heaters that run with no electric. They are on all levels of my house and one in the garage. I have a working chain saw and gas, snow blowers a four wheel drive truck and extra gasoline on hand. I also have a 5000 watt gasoline generator on hand in my shed.

Sep 12 2009  
12:48 AM

Sep 24 2009  
6:53 PM Good survey - someone is putting some good thought to things.  
A cost benefit analysis must be completed before a decision could be made for question 19 & 20. The Town of Manlius have not resolved this dangerous, environmental and public safety issue that is a threat to all public safety responders, the residents of the Town home building #1, other neighbors of The Bluffs and the Town of Manlius. Marcia Novek Cell 315-420-4846

Sep 28 2009  
12:46 AM If a buy-out program is offered, it needs to permanently remove folks from a hazard area. We should not knowingly keep spending tax payer money to repeatedly bail people out!

Oct 1 2009  
4:40 PM

Oct 18 2009  
12:10 AM Hello

Oct 21 2009  
12:06 PM I live high on a hill in Otisco... don't have to worry about flooding... flooding questions do not apply to my circumstance....

Nov 16 2009  
9:30 PM I would not continue to live in an area that had constant issues.  
My area is fine now. Neighbors have fought at Town Boards and in court to uphold a Covenant, and keep Three Falls Woods, from being developed. The woods is underpinned by large aquifer, studied by Paul Ruben which if disturbed could have catastrophic consequences for the neighborhood and Town.

Nov 17 2009  
3:10 PM

Feb 4 2010  
3:38 PM I believe in the motto "consider the soil first". This answers flooding questions, wetness concerns, land slide worries, and drought concerns.  
**MUNICIPAL FOREST MANAGEMENT - LOTS of HAZARD AND LITTLE PROACTIVE MANAGEMENT + HIGH COST AND HIGH RISK** I would argue that our communities are still not prepared to deal with another "microburst event". Evidence is the reactive management of our existing trees. The next wind event of 50 mph will result in a lot of downed power lines and potential damage to property and people. The next ice storm or 70 mph or greater wind event will reduce our urban forest significantly while causing significant damage. Municipalities need to continue to take a proactive approach to managing trees through cycle pruning which happens predictably. Instead, municipalities manage trees based on request which is like health care by emergency room. This problem won't go away but it is understandably easy to defer maintenance on trees.

Feb 10 2010  
7:00 PM

On August 26, 2009, the following press release was distributed to the following media agencies serving the Syracuse and Onondaga County region: Post-Standard, News 10, WSYR, Channel 9, Channel 3, WRVO Radio, and Syracuse New Times

## **Onondaga County Preparing Natural Hazards Mitigation Plan**

Onondaga County, through the Syracuse-Onondaga County Planning Agency and Department of Emergency Management, is in the process of creating a comprehensive natural hazards mitigation plan for the County and its participating municipalities. The Onondaga County Multi-Jurisdictional Hazards Mitigation Plan is being funded by a grant from the Federal Emergency Management Agency (FEMA).

The mission of the Onondaga plan is protect the health, safety, property, environment and economy of the communities within Onondaga County by partnering to identify and reduce our vulnerability to natural hazards in a proactive and efficient manner. The goal of the plan is to identify projects that can reduce damages from future natural hazards.

As a multi-jurisdictional plan, it serves as an efficient and cost-effective way for all municipalities within Onondaga County to satisfy each jurisdiction's federal requirements under the Disaster Mitigation Act of 2000. And having an adopted plan in place allows these jurisdictions to apply for mitigation project implementation funding through FEMA. There is no cost for municipalities to participate in the County planning process.

"The creation of this plan will allow the county and its participating municipalities to protect ourselves against rather than react to the impacts of natural hazards," said Don Jordan, Director of the Syracuse-Onondaga County Planning Agency. "This is an opportunity for us to create a detailed plan that will address a variety of potential hazards that affect our communities."

The plan will include a risk assessment and a hazard-mitigation strategy. The risk assessment will include four phases: The first phase will identify hazards that may impact the County and its municipalities; the second will profile the relevant hazards and their potential consequences. The third phase will identify assets that are subject to losses or damage, including physical structures, functions and populations. Finally, the fourth phase will estimate the potential losses that could result from each type of hazard. Following the risk assessment will be the development of a hazard mitigation strategy. The strategy will include the identification of hazard mitigation goals as well as a prioritized list of actions designed to reduce losses.

The main natural hazards in Onondaga County include flooding, severe winter storms, landslide, earthquake and severe storms. Vulnerability to these hazards will be determined in terms of existing and future buildings, infrastructure and critical facilities that might be impacted, including police, fire, shelters and hospitals, power-generation facilities, sewer and water utilities, roadways, bridges and communication systems.

To inform and engage the public and other local and regional stakeholders in the planning process, the County has developed a hazard mitigation planning website at <http://www.ongov.net/Planning/haz.html>. This site includes an online hazards awareness and preparedness survey, and draft sections of the Plan as they become available. The public is encouraged to visit the site and take the online survey. The site will advise the public of other opportunities to participate in the planning process, review draft plan documents, and provide direct input and feedback.

For more information, contact Megan Costa at the Syracuse-Onondaga County Planning Agency at 315-435-2611 or [megancosta@ongov.net](mailto:megancosta@ongov.net).

## Raser, Jonathan

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**From:** Raser, Jonathan  
**Sent:** Friday, August 14, 2009 1:34 PM  
**To:** 'terryb@oswegocounty.com'  
**Cc:** 'eganp@oswegocounty.com'; 'Megan Costa (MeganCosta@ongov.net)'  
**Subject:** Mitigation Planning Coordination - Onondaga and Oswego Countys

Terry:

It was a pleasure speaking with you today on the mitigation planning projects in Onondaga and Oswego counties.

Per our discussion, I will keep you informed of potential regional mitigation initiatives as they develop. Specifically we are working with USGS to identify some stream gaging projects within the Oswego River Basin, and with CNYRPDB on viable mitigation projects identified in the "Management Strategy for Oneida Lake and its Watershed".

You can find out more about the Onondaga County project, and review interim draft sections of their plan as they become available, at:

<http://www.ongov.net/Planning/haz.html>

We look forward to continued coordination of these planning efforts, and can be reached through my contact information below. Thank you.

**Jonathan Raser, CFM | Hazard Mitigation Program Manager**

Office: 973.659.9996 x239 | Fax: 973.659.1287

[jonathan.raser@ttemi.com](mailto:jonathan.raser@ttemi.com)

Tetra Tech EM Inc.

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## Raser, Jonathan

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**From:** Raser, Jonathan  
**Sent:** Friday, August 14, 2009 2:05 PM  
**To:** 'Brian P. Dahl (ccemo@co.cayuga.ny.us)'  
**Cc:** 'Megan Costa (MeganCosta@ongov.net)'  
**Subject:** Inter-County Coordination - Onondaga County Hazard Mitigation Plan

**Contacts:** Brian P. Dahl

Brian:

Our firm is supporting Onondaga County in the preparation of their DMA 2000 Hazard Mitigation Plan. This project is being managed through their planning department (Megan Costa) and county emergency management (Peter Alberti). We wish to encourage regional mitigation planning as the Onondaga plan develops.

A number of potential regional mitigation initiatives have been identified that we would like neighboring counties to be aware of and support as applicable. Specifically we are working with USGS to identify some stream gaging projects within the Oswego River Basin, and with CNYRPDB on viable mitigation projects they have identified through their regional planning efforts. I will keep you informed as these and other potential mitigation initiatives develop.

You can find out more about the Onondaga County project, and review interim draft sections of their plan as they become available, at:

<http://www.ongov.net/Planning/haz.html>

We look forward to Cayuga County's interest and input in the Onondaga County planning effort and regional mitigation planning in general, and can be reached through my contact information below. Thank you.

**Jonathan Raser, CFM | Hazard Mitigation Program Manager**

Office: 973.659.9996 x239 | Fax: 973.659.1287

[jonathan.raser@ttemi.com](mailto:jonathan.raser@ttemi.com)

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## Raser, Jonathan

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**From:** Raser, Jonathan  
**Sent:** Friday, August 14, 2009 2:09 PM  
**To:** 'madco1@dreamscape.com'  
**Cc:** 'Megan Costa (MeganCosta@ongov.net)'  
**Subject:** Inter-County Coordination - Onondaga County Hazard Mitigation Plan

Joe:

Our firm is supporting Onondaga County in the preparation of their DMA 2000 Hazard Mitigation Plan. This project is being managed through their planning department (Megan Costa) and county emergency management (Peter Alberti). We wish to encourage regional mitigation planning as the Onondaga plan develops.

A number of potential regional mitigation initiatives have been identified that we would like neighboring counties to be aware of and support as applicable. Specifically we are working with USGS to identify some stream gaging projects within the Oswego River Basin, and with CNYRPDB on viable mitigation projects they have identified through their regional planning efforts including projects in the Oneida Lake watershed. I will keep you informed as these and other potential mitigation initiatives develop.

You can find out more about the Onondaga County project, and review interim draft sections of their plan as they become available, at:

<http://www.ongov.net/Planning/haz.html>

We look forward to Madison County's interest and input in the Onondaga County planning effort and regional mitigation planning in general, and can be reached through my contact information below. Thank you.

**Jonathan Raser, CFM | Hazard Mitigation Program Manager**

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