



Tioga County PA Emergency Services

Published by Emily Kreider [?] · January 26 at 4:09pm · 🌐

This is a notice that a public meeting to review the Tioga County Multi-Jurisdictional Hazard Mitigation Plan, Risk Assessment Section will be conducted on February 2, 2017 at 7:00 P.M. at the Tioga County Fairgrounds located at 2258 Charleston Road, Wellsboro, PA 16901. Public participation in the hazard mitigation plan update process is very important. This meeting will outline the updated list of natural and human-caused hazards that will be included in the 2017 Tioga County Hazard Mitigation Plan Update and the risk of these hazards to the public.



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Ron Wrn

Re: Public Notice

Natalie Kennedy [nkennedy@tiogapublishing.com]

You forwarded this message on 1/26/2017 12:07 PM.

Sent: Thu 1/12/2017 10:37 AM

To: Emily Kreider

Hi Emily, I forwarded this to Shereen - her email is slapoint@tiogapublishing.com. She handles public notices and classifieds; I handle stories and photos. Thanks!

Natalie

On 1/12/17 9:28 AM, Emily Kreider wrote:

Natalie,

I think you're the right person to ask to put this in the Public Notice section of the newspaper? If not please let me know who I should be contacting. I appreciate it! Thanks!

Emily J. Kreider

Tioga County Emergency Services

EMA Planner

99 William Farrell Dr

Wellsboro, Pa 16901

Phone: (570) 724-9110

Fax: (570) 724-6819

FW: Public Notice

Emily Kreider

Sent: Thu 1/26/2017 12:07 PM

To: 'slapoint@tiogapublishing.com'



Good morning Shereen,

I had sent this back on 1/12 and didn't see it in the 1/18 newspaper. Do you know if it happened to make the next one?

From: Natalie Kennedy [<mailto:nkennedy@tiogapublishing.com>]

Sent: Thursday, January 12, 2017 10:37 AM

To: Emily Kreider

Subject: Re: Public Notice

Hi Emily, I forwarded this to Shereen - her email is slapoint@tiogapublishing.com. She handles public notices and classifieds; I handle stories and photos. Thanks!

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Tioga County PA Emergency Services shared their photo.

Published by Emily Kreider (?) · Just now · 🌐

WE HOPE TO SEE YOU TONIGHT AT THE PUBLIC MEETING! Come and address your concerns and give us your ideas!

This is a notice that a public meeting to review the Tioga County Multi-Jurisdictional Hazard Mitigation Plan, Risk Assessment Section will be conducted on February 2, 2017 at 7:00 P.M. at the Tioga County Fairgrounds located at 2258 Charleston Road, Wellsboro, PA 16901. Public participation in the hazard mitigation plan update process is very important. This meeting will outline the updated list of natural and human-caused hazards that will be included in the 2017 Tioga County Hazard Mitigation Plan Update and the risk of these hazards to the public



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Tioga County Hazard Mitigation Plan Update

Risk Assessment Section
Public Meeting
February 2, 2017

Tioga County Hazard Mitigation Plan Update Risk Assessment Public Meeting

Agenda

- What is Hazard Mitigation Planning
- Review the update process
- Risk Assessment Section
- Next Steps
- Conclusion

Tioga County Hazard Mitigation Plan Update Risk Assessment Public Meeting

Why is a Hazard Mitigation Plan necessary?

Disaster Mitigation Act of 2000 (DMA 2000) which amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act (the Stafford Act), requires **all local jurisdictions** to have a mitigation plan in order to receive certain types of disaster assistance and hazard mitigation funding.

Tioga County Hazard Mitigation Plan Update Risk Assessment Public Meeting

Current Hazard Mitigation Plan

- Adopted and Promulgated by Tioga County Commissioners
- Municipality Adoption of the Tioga County Plan
- Used as support for disasters and emergencies since promulgation

Tioga County Hazard Mitigation Plan Update Risk Assessment Public Meeting

2017 Hazard Mitigation Plan Update

- Required to be updated every 5 years
- Update process is continuous
- All plans are reviewed annually:
 - County reviews all mitigation actions.
 - Municipalities provide progress reports on project opportunities.
 - Capture any major emergency or disaster information.
- Annual progress reports are required by PEMA

Tioga County Hazard Mitigation Plan Update Risk Assessment Public Meeting

2017 Hazard Mitigation Plan Update

- Tioga County Hazard Mitigation Grant
- Hired MCM Consulting Group, Inc.
 - Kick off meeting was September 27, 2016
- Local Planning Team Developed
- Update process
 - Capabilities Assessment
 - Risk Assessment
 - Mitigation Strategy Develop
 - Draft Plan

Tioga County
Hazard Mitigation Plan Update
Risk Assessment Public Meeting

2017 Hazard Mitigation Plan Update

- Municipality involvement:
 - Complete surveys and assessments:
 - Capability Assessment Survey
 - Hazard Identification Worksheet
 - Mitigation Opportunity Form
 - Provide input into the draft plan.
 - Participate in meetings.
 - Adopt the County Plan as the Municipal Plan.

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Hazard Mitigation Plan Update
Risk Assessment Public Meeting

2017 Hazard Mitigation Plan Update

- Public involvement:
 - Identify hazard areas in your municipality.
 - Participate in surveys and assessments.
 - Provide input into the draft plan.
 - Participate in meetings.

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Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment Review
Identifying Hazards**

44 CFR Requirement
Part 201.6(c)(2)(6): The risk assessment shall include a description of the type of all [hazards] that can affect the jurisdiction.

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Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment
Identifying Hazards**

- Note and Document Past Presidential Disaster Declarations
 - Hurricane Sandy - 2012
 - Tropical Depression Ivan - 2004
- Develop a List of Natural and Human-Caused Hazards
 - Review previous hazards in current plan
 - Flooding, Winter Storms, Drought, Wildfire, etc.
 - Identify new hazards
 - Extreme Temperature, Invasive Species, Search and Rescue, Etc.
- Use a Hazard Identification and Risk Evaluation Worksheet:
 - Municipality Worksheet completed by Municipalities.
 - County Worksheet completed by the local planning team.

Tioga County
Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment Review
Profiling Hazards**

44 CFR Requirement
Part 201.6(c)(2)(6): The risk assessment shall include a description of the location and extent of all [hazards] that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.

Tioga County
Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment
Profiling Hazards**

- Identify the location and geographic extent
 - Mapping utilized
 - Local knowledge
- Define the range and magnitude
 - Use of Scales or Measuring Tools
 - Defines intensity and Impact
- Past occurrences
 - Dates
 - Impact

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Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment
Profiling Hazards**

- Establish probability of future occurrences
 - Based on past occurrence frequency
 - Special Flood Hazard Area (Previously 100 year flood data)
- Determine environmental impacts
 - Flooding causes polluted streams
 - Tornado causes scattering of debris over large areas
 - Droughts kill crops and trees

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Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment
Assessing Vulnerability**

- Inventory and summarize vulnerable assets:
 - Existing buildings
 - Critical facilities
 - New development
 - Hazardous material facilities
 - Utility Systems
- Utilize GIS data

Tioga County
Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment
Assessing Vulnerability**

- Review high risk groups
 - Elderly
 - Children
 - Special needs
- Flooding hazards
 - Utilize Flood Insurance Rate Maps
 - Develop maps with critical facilities and impacted structures

Tioga County
Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment
Assessing Vulnerability**

- Estimate loss
 - Determine potential dollar loss estimates for hazards:
 - Flooding
 - Wind/Tornadoes
 - Utilize assessed values from county records
 - HAZUS Software from FEMA

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Hazard Mitigation Plan Update
Risk Assessment Public Meeting

**Risk Assessment
Assessing Vulnerability**

- Develop risk factor for hazards
 - Utilize a risk factor tool (next slide)
 - Relies on historical data
 - Relies on local planning team knowledge

Synopsis of Risk Factor (RF) Approach

Risk Assessment Category	Degree of Risk		Index	Weight Value
	Level	Criteria		
PROBABILITY What is the likelihood of a hazard event occurring in a given year?	UNLIKELY	LESS THAN 1% ANNUAL PROBABILITY	1	30%
	POSSIBLE	BETWEEN 1% & 40% ANNUAL PROBABILITY	2	
	LIKELY	BETWEEN 40% & 90% ANNUAL PROBABILITY	3	
	HIGHLY LIKELY	GREATER THAN 90% ANNUAL PROBABILITY	4	
IMPACT Is there a chance of physical damage or death, injury, or economic impacts to be irreversibly, partially, or temporarily reduced or eliminated when an equivalent hazard event occurs?	MINOR	MINOR INJURIES ONLY. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE DAY.	1	30%
	MODERATE	MULTIPLE DEATHS/INJURIES POSSIBLE. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE WEEK.	2	
	CRITICAL	HIGH NUMBER OF DEATHS/INJURIES POSSIBLE. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR 30 DAYS OR MORE.	3	
	CATASTROPHIC	HIGH NUMBER OF DEATHS/INJURIES POSSIBLE. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR 90 DAYS OR MORE.	4	
SPATIAL EXTENT How large of an area could be impacted by a hazard event? Are impacts localized or widespread?	NEGLECTABLE	LESS THAN 1% OF AREA AFFECTED	1	20%
	SMALL	BETWEEN 1 & 10% OF AREA AFFECTED	2	
	MODERATE	BETWEEN 10 & 50% OF AREA AFFECTED	3	
WARNING TIME Is there actually some lead time associated with the hazard event? How much lead time is available?	MORE THAN 24 HRS	SELF-DEFINED	1	10%
	1 TO 24 HRS	SELF-DEFINED	2	
	1 TO 12 HRS	SELF-DEFINED	3	
	LESS THAN 1 HRS	SELF-DEFINED	4	
DURATION How long does the hazard event persist?	LESS THAN 6 HRS	SELF-DEFINED	1	10%
	LESS THAN 24 HRS	SELF-DEFINED	2	
	LESS THAN 1 WEEK	SELF-DEFINED	3	
	MORE THAN 1 WEEK	SELF-DEFINED	4	

Section	Hazard	Probability	Impact	Spatial Extent	Warning Time	Duration	Risk Factor
4.3.19	Utility Interruption	4	3	4	4	2	3.5
4.3.12	Winter Storm	4	3	4	1	3	3.3
4.3.11	Wildfire	3	3	3	4	3	3.1
4.3.16 New	Industrial, Petroleum and Gas Well Incident	3	3	3	4	3	3.1
4.3.13 New	CBRNE - Chemical, Biological, Radiological, Nuclear, Explosive	2	3	3	4	4	2.9
4.3.3 New	Extreme Temperature	3	2	4	1	4	2.8
4.3.7 New	Pandemic, Epidemic and Infectious Disease	2	3	4	1	4	2.8
4.3.14 New	Cyber Attack	3	2	3	4	3	2.8
4.3.15	Dam Failure	2	3	3	3	3	2.7
4.3.4	Flood (100 Year)	2	3	3	2	3	2.6
4.3.2	Earthquake	1	3	3	4	4	2.6
4.3.17 New	Search and Rescue/Mountain	4	1	2	4	3	2.6
4.3.1	Drought	3	1	4	1	4	2.5
4.3.4	Fresh Flooding	2	3	2	4	2	2.5
4.3.18	Transportation Accidents and Transportation HazMat	4	2	1	4	1	2.5
4.3.4	Ice Jam Flooding	2	3	2	3	2	2.4
4.3.10	Tornado	2	2	2	4	4	2.4
4.3.3 New	Invasive Species	2	2	3	1	4	2.3
4.3.6	Landslide	2	2	2	4	2	2.2
4.3.8 New	Solar Flare	1	2	4	3	2	2.2
4.3.10	Windstorm	2	2	2	4	2	2.2
4.3.9	Subsidence and Sinkhole	2	2	1	4	1	1.9

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Next Steps

- Mitigation Strategy Section:
 - Meet with municipalities
 - Develop mitigation action plan
- Draft the mitigation plan
- Available for public comment
- Draft submit to PEMA
- FEMA review and approval pending adoption
- County and municipality adoption

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Conclusion

Questions??

Thank You

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