Antrim County Hazard Mitigation Plan Update

November 9, 2021



Welcome

- Thank you for joining us!
- We will be discussing the following:
 - Antrim County and local jurisdictions' Community Profile
 - Results of the Community Survey

Introductions

- Networks Northwest Staff
 - Jennifer Neal, AICP
 - Stephanie Loria
 - Frank Post
- Community Partners

Purpose

Hazard Mitigation Planning

"The effort to reduce loss of life and property by lessening the impact of disasters"

Subscribe Latest Issues SCIENTIFIC AMERICAN,

Billion-Dollar Disasters Shattered U.S. Record in 2020

The 22 events that each caused at least \$1 billion in damage show the increasing costs of climate change

By Thomas Frank, E&E News on January 11, 2021



An aerial view of flood waters from Hurricane Delta surrounding structures destroyed by Hurricane Laura on October 10, 2020 in Creole, Louisiana. Credit: Mario Tama Getty Images

Project Timeline

Now through December 2023



From Fishtown To State Theatre, High Waters Wreak Havoc - With Trend Likely To Continue

By Beth Milligan | Nov. 18, 2019

The impacts of near-record lake levels will continue to be felt this winter, with major repair projects needed at sites ranging from Fishtown to the State Theatre, planning

Antrim County LEPC/LPT Membership

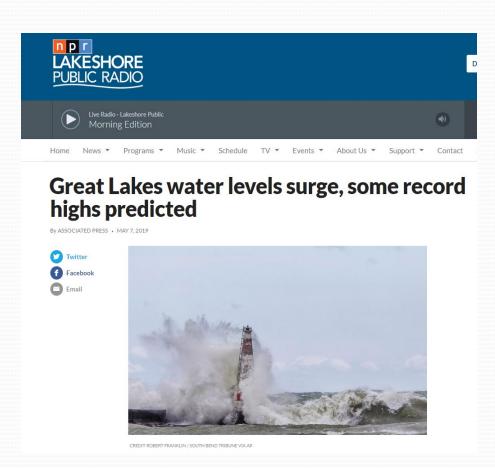
Name

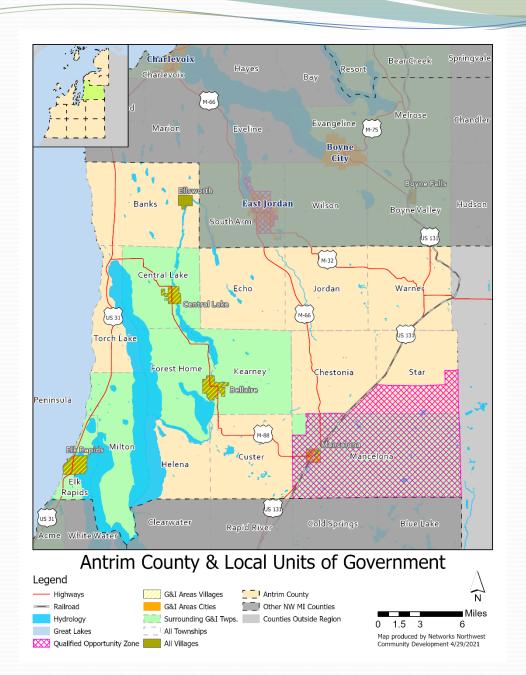
Organization

Community Profile*

- Demographics
- Housing
- Income
- Economy
- Agriculture

*2019 ACS 5-year data unless otherwise specified

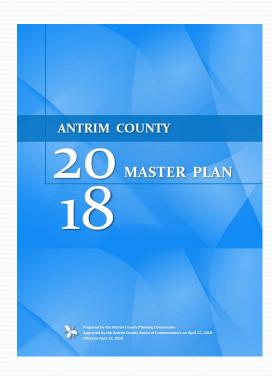




Reference Documents

- Antrim County CIP (2022)
- Antrim County Parks and Rec Plan (2022)
- Antrim County Master Plan (2018)
- Other regional reports



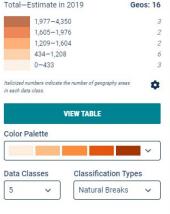


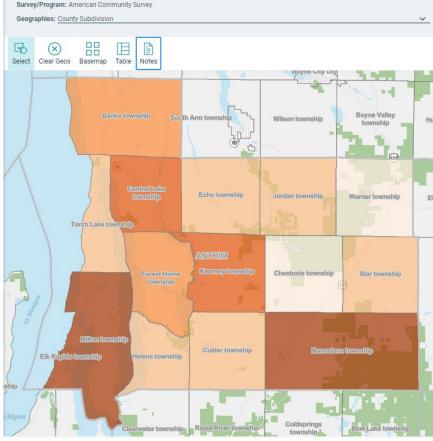


Population levels by

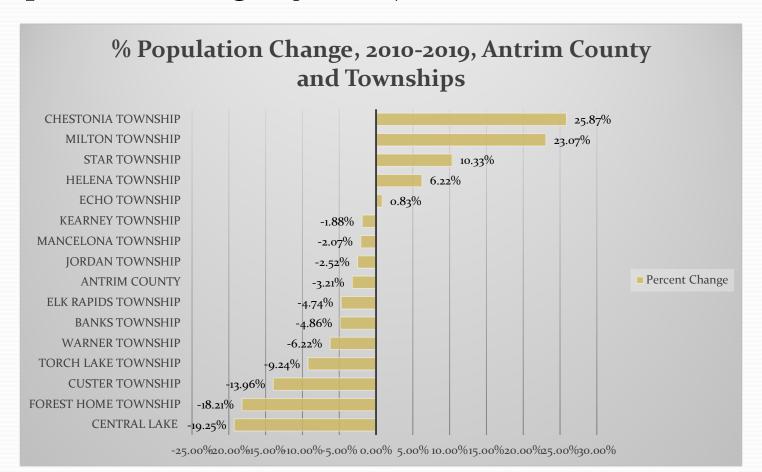
local jurisdiction

Municipality	2019 Estimated Population		
Antrim County	23,206	%	
Mancelona Township	4,350	18.7%	
Elk Rapids Township	2,575	11.1%	
Milton Township	2,545	11.0%	
Central Lake Township	1,976	8.5%	
Kearney Township	1,882	8.1%	
Banks Township	1,604	6.9%	
Forest Home Township	1,594	6.9%	
Torch Lake Township	1,208	5.2%	
Helena Township	1,024	4.4%	
Custer Township	949	4.1%	
Jordan Township	929	4.0%	
Star Township	929	4.0%	
Echo Township	846	3.6%	
Chestonia Township	433	1.9%	
Warner Township	362	1.6%	





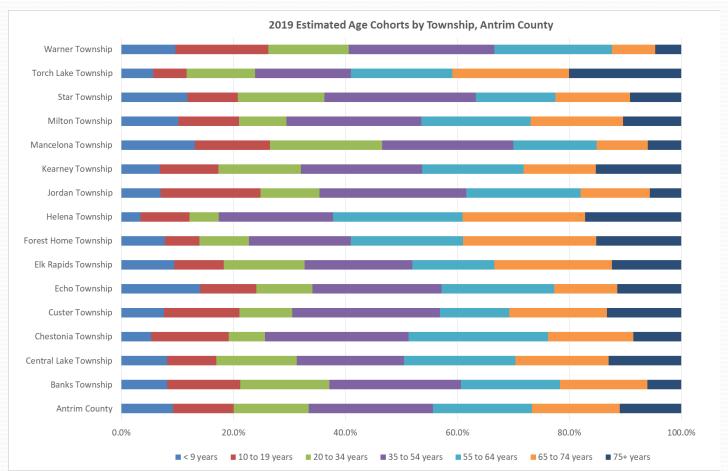
Population change by local jurisdiction



Population change by local jurisdiction

Antrim County and Municipalities Population Estimates, 2010-2019								
Municipality	2010 Estimated Population	2019 Estimated Population	Numeric Change	Percent Change				
Antrim County	23,975	23,206	-769	-3.2%				
Central Lake Township	2,447	1,976	-471	-19.2%				
Forest Home Township	1,949	1,594	-355	-18.2%				
Custer Township	1,103	949	-154	-14.0%				
Torch Lake Township	1,331	1,208	-123	-9.2%				
Warner Township	386	362	-24	-6.2%				
Banks Township	1,686	1,604	-82	-4.9%				
Elk Rapids Township	2,703	2,575	-128	-4.7%				
Jordan Township	953	929	-24	-2.5%				
Mancelona Township	4,442	4,350	-92	-2.1%				
Kearney Township	1,918	1,882	-36	-1.9%				
Echo Township	839	846	7	0.8%				
Helena Township	964	1,024	60	6.2%				
Star Township	842	929	87	10.3%				
Milton Township	2,068	2,545	477	23.1%				
Chestonia Township	344	433	89	25.9%				

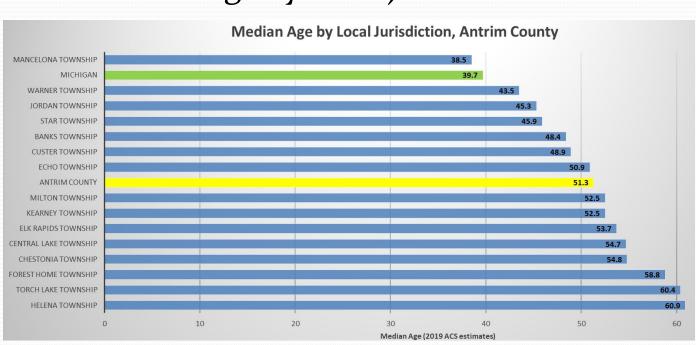
Age groups by local jurisdiction

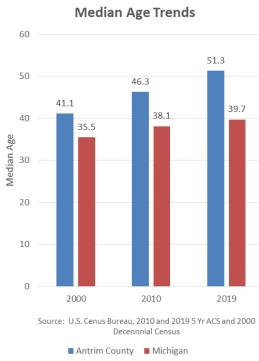


Age groups by local jurisdiction

Community	< 9 years	10 to 19 years	20 to 34 years	35 to 54 years	55 to 64 years	65 to 74 years	75+ years
Antrim County	9.3%	10.8%	13.4%	22.1%	17.7%	15.6%	11.0%
Banks Township	8.2%	13.0%	15.9%	23.5%	17.6%	15.6%	6.0%
Central Lake Township	8.2%	8.8%	14.3%	19.1%	19.9%	16.6%	13.0%
Chestonia Township	5.3%	13.9%	6.5%	25.6%	24.9%	15.2%	8.5%
Custer Township	7.6%	13.5%	9.5%	26.3%	12.3%	17.5%	13.3%
Echo Township	14.1%	10.0%	10.0%	23.0%	20.1%	11.2%	11.5%
Elk Rapids Township	9.4%	8.9%	14.4%	19.2%	14.7%	20.9%	12.4%
Forest Home Township	7.8%	6.2%	8.8%	18.2%	20.1%	23.8%	15.2%
Helena Township	3.4%	8.8%	5.2%	20.4%	23.1%	21.9%	17.2%
Jordan Township	7.0%	17.9%	10.5%	26.2%	20.5%	12.4%	5.6%
Kearney Township	6.9%	10.5%	14.7%	21.7%	18.1%	12.9%	15.2%
Mancelona Township	13.1%	13.4%	20.0%	23.5%	14.8%	9.1%	6.0%
Milton Township	10.2%	10.9%	8.4%	24.1%	19.6%	16.5%	10.4%
Star Township	11.8%	8.9%	15.5%	27.0%	14.2%	13.3%	9.1%
Torch Lake Township	5.7%	6.o%	12.3%	17.1%	18.1%	20.9%	20.0%
Warner Township	9.7%	16.6%	14.4%	26.0%	21.0%	7.7%	4.7%

Median age by local jurisdiction

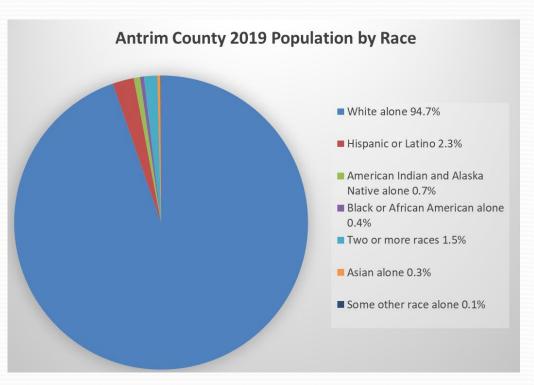




Disability Status In Antrim County

ANTRIM COUNTY	Population	Percentage
2019 Estimate of Total Civilian Noninstitutionalized Population	23,031	
Estimated number of people with one or more type of disability	3,733	16.2
With an ambulatory difficulty	1,756	8
With an independent living difficulty	1,202	6.4
With a hearing difficulty	1,459	6.3
With a cognitive difficulty	1,347	6.1
With a self-care difficulty	610	2.8
With a vision difficulty	502	2.2

 Population by Race and Limited English-Speaking Households

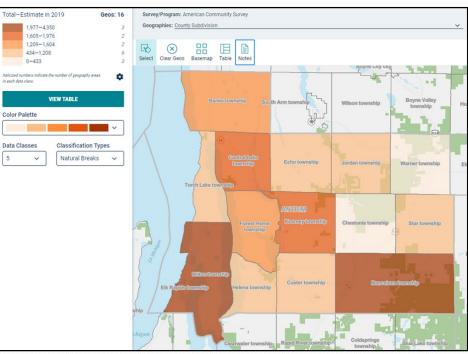


		Banks Tow	nship		Elk Rapids Township			Jordan Township		
	Total	Limited English- speaking households	Percent limited English-speaking households	Total	Limited English- speaking households	Percent limited English-speaking households	Total	Limited English- speaking households	Percent limited English-speaking households	
All households	679	3	0.4%	1,142	8	0.7%	367	5	1.4%	
Households speaking										
Spanish	8	3	37.5%	8	0	0.0%	0	0	-	
Other Indo-European languages	6	0	0.0%	20	8	40.0%	5	0	0.0%	

Housing

Units by local jurisdiction

2019 Population Estimates Map



Municipality	2010 Housing Units (ACS)	2019 Housing Units (ACS)	Percent Change	Percent of 2019 Total
Antrim County	17,546	18,069	2.9%	
Mancelona Township	2,529	2,564	1.4%	14.2%
Milton Township	1,887	1,934	2.4%	10.7%
Elk Rapids Township	1,910	1,918	0.4%	10.6%
Central Lake Township	1,811	1,637	-10.6%	9.1%
Forest Home Township	1,547	1,536	-o.7%	8.5%
Kearney Township	1,067	1,409	24.3%	7.8%
Torch Lake Township	1,205	1,399	13.9%	7.7%
Custer Township	1,117	1,161	3.8%	6.4%
Banks Township	1,187	1,002	-18.5%	5.5%
Helena Township	947	962	1.6%	5.3%
Star Township	673	848	20.6%	4.7%
Echo Township	599	601	0.3%	3.3%
Jordan Township	536	552	2.9%	3.1%
Chestonia Township	323	349	7.4%	1.9%
Warner Township	208	197	-5.6%	1.1%
Jordan Township Chestonia Township	536 323	552 349	2.9% 7.4%	3.1% 1.9%

Housing

County Occupancy Status

Antrim County Housing Unit Occupancy							
Total housing units	18,069	%					
Occupied housing units	9,899	54.80%					
Owner-occupied	8,621	87.10%					
Renter-occupied	1,278	12.90%					
Vacant housing units	8,170	45.20%					

Housing

Units by Year Structure Built

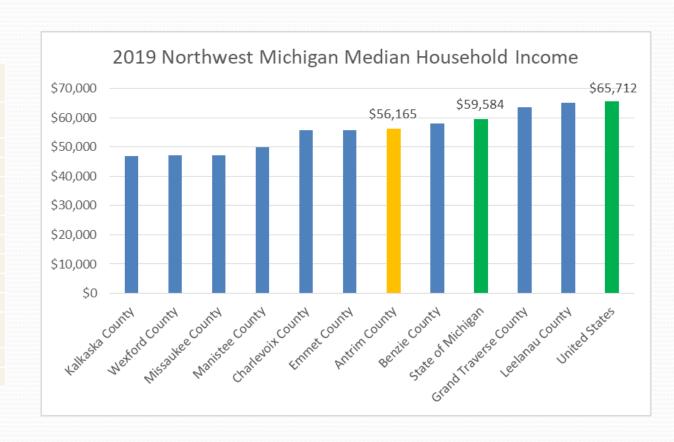
10	Year Housing Structure Built, Antrim County								
	Year Built	Housing Units	Percentage of Units						
Ві	uilt 2000 or later	2,398	13.3%						
В	uilt 1990 to 1999	3,031	16.8%						
В	uilt 1980 to 1989	2,702	15.0%						
В	uilt 1960 to 1979	5,526	30.6%						
В	uilt 1940 to 1959	2,332	12.9%						
Bu	ilt 1939 or earlier	2,080	11.5%						
Tot	tal Housing Units	18,069							

55% of the housing is 40 or more years old

Income

Median Household Income by County

2019 Median Household Income					
ne Median					
Income					
\$46,898					
\$47,193					
\$47,194					
\$50,055					
\$55,760					
\$55,829					
\$56,165					
\$57,974					
\$59,584					
\$63,575					
\$65,249					
\$65,712					



Income

Poverty Rates – Individuals and Families

Antrim County		Below poverty level	Percent below poverty level
Population for whom poverty status is determined	22,935	2,527	11.0%
Individuals under 18 years	4,146	695	16.8%
Individuals 18 to 64 years	12,717	1,412	11.1%
Individuals 65 years and over	6,072	420	6.9%
Total families in Antrim County with child(ren) under age 18 in the home	4,122	671	16.3%
In married-couple family:		161	23.99%
In other family:		510	76.01%
Male householder, no spouse present:		39	
Female householder, no spouse present:		471	

Income

• ALICE: Asset Limited, Income Constrained, Employed = households with income above the Federal Poverty Level but below the basic cost of living.

erty and CE	% of HH in Poverty and ALICE 46.2%	Poverty Households		Total
	46 2%		nousenoias	Households
	40.470	305	4 51	1,637
	38.9%	102	253	913
	29.3%	173	162	1,142
	39.9%	98	203	754
	24.3%	94	165	1,068
	28.4%	76	141	765
	28.0%	43	147	679
	30.0%	51	124	584
	40.7%	30	112	349
	31.5%	38	87	397
	30.3%	22	101	406
	33.2%	36	86	367
	59.2%	16	103	201
	23.7%	11	106	493
	34.0%	10	39	144
5	25.5%	1,105	2,280	9,899
	,	29.3% 39.9% 24.3% 28.4% 28.0% 30.0% 40.7% 31.5% 30.3% 33.2% 59.2% 23.7% 34.0%	29.3% 173 39.9% 98 24.3% 94 28.4% 76 28.0% 43 30.0% 51 40.7% 30 31.5% 38 30.3% 22 33.2% 36 59.2% 16 23.7% 11 34.0% 10	29.3% 173 162 39.9% 98 203 24.3% 94 165 28.4% 76 141 28.0% 43 147 30.0% 51 124 40.7% 30 112 31.5% 38 87 30.3% 22 101 33.2% 36 86 59.2% 16 103 23.7% 11 106 34.0% 10 39 25.5% 1,105 2,280

ALICE households are more likely to live in housing units and communities that are more vulnerable to flooding, fire, and other hazards, primarily because those areas are more affordable.

https://www.unitedforalice.org/state-overview/michigan

Data Source: ACS 5-Yr Estimates, 2019

Agriculture

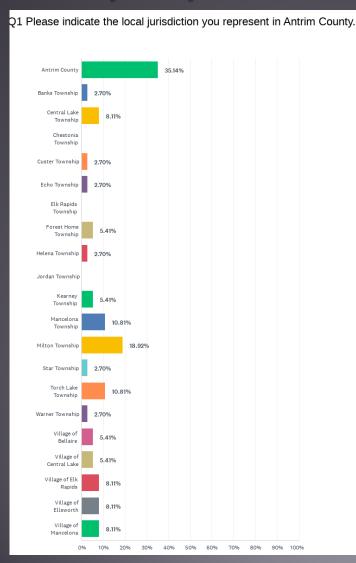


"WE ARE IN A WAR ZONE AGAINST THIS DISEASE." CLIMATE CHANGE IS FUELING FIRE BLIGHT, AND NORTHERN MICHIGAN'S APPLE ORCHARDS ARE AT RISK.

BY TODD VANSICKLE | OCT. 5, 2019

What is this contagion? What does it mean for the future of our fruit and orchards? And what — if anything - can we do about it?

Antrim County Profile, 2017 USDA Census of Agriculture							
	2017	% Ch	_				
Number of farms	333	-20%					
Land in farms (acres)	55,565	-13%					
Average size of farm (acres)	167	8%					
Percent of state agricultural sales	<0.5%						
Total				producing	Counties in the U.S. producing item(s)		
Market value of products sold	\$35,472,000	69%		47 out of 83	2,037 out of 3,077		
Crops	\$28,983,000		89%	42 out of 83	1,438 out of 3,073		
Livestock, poultry and other animal products	\$6,488,000		15%	54 out of 82	2,335 out of 3,073		
Farm production expenses	\$29,311,000	21%					
Net cash farm income	\$8,066,000	5117%					
Per Farm Average							
Market value of products sold	\$106,521	111%					
Total farm production expenses	\$88,022	51%					
Net cash farm income	\$24,221	6401%					
https://www.nass.usda.gov/Publications/AgCensus/2017	/Online_Resources/County	Profiles/N	Michigan	L			

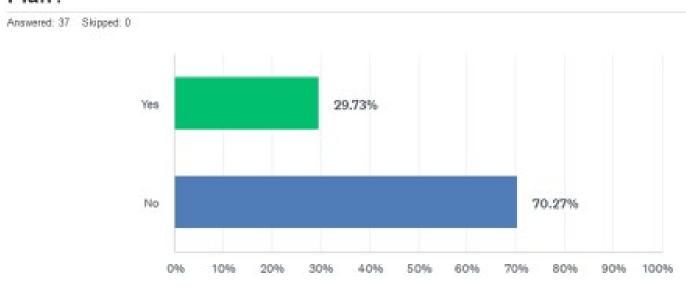


37/208 responses = 17.8% completion rate

Aim to get more responses from representatives of:

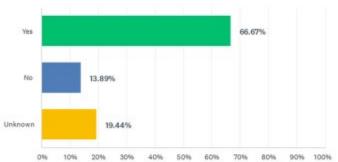
Chestonia, Elk Rapids and Jordan Twps	No Response
Banks, Custer, Echo, Helena, Star and Warner Twps	<3% response
Fire Depts. From Banks Twp, Bellaire, Elk Rapids, Star Twp, Twp Ambulance Authority	No Response
More CERT members	?





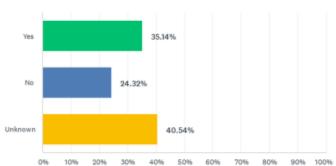
Q4: Does the community you represent have an adopted Master Plan?



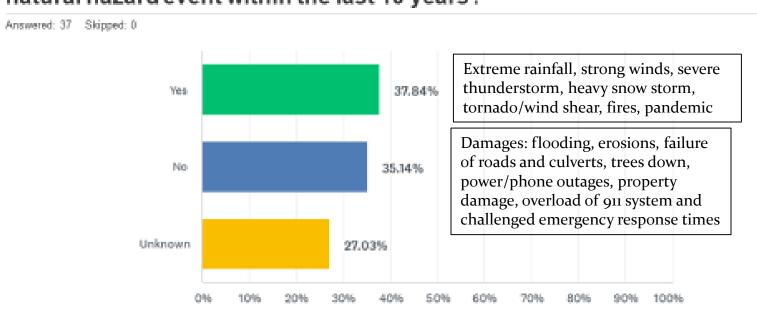


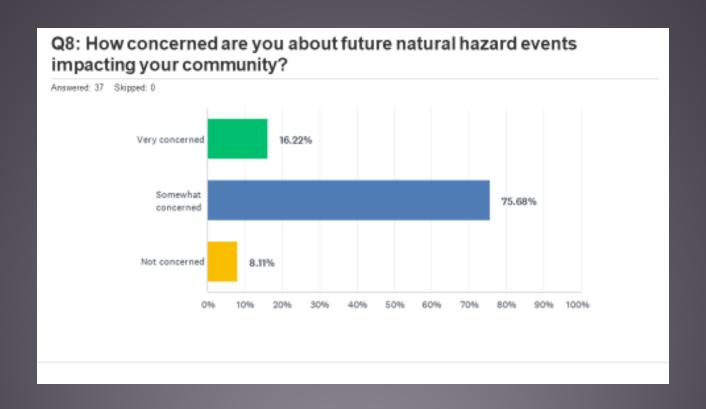
Q5: Does the community you represent have an adopted Capital Improvements Plan?

Answered: 37 Skipped: 0



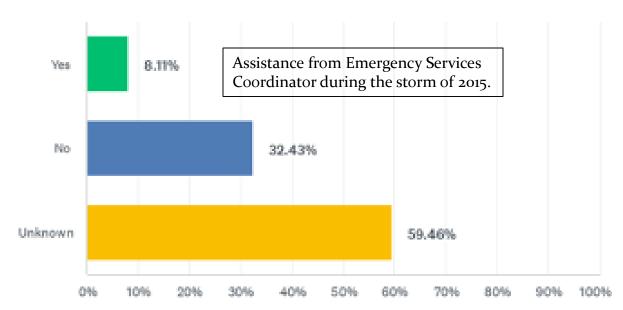
Q6: Has the community you represent experienced a significant natural hazard event within the last 10 years?



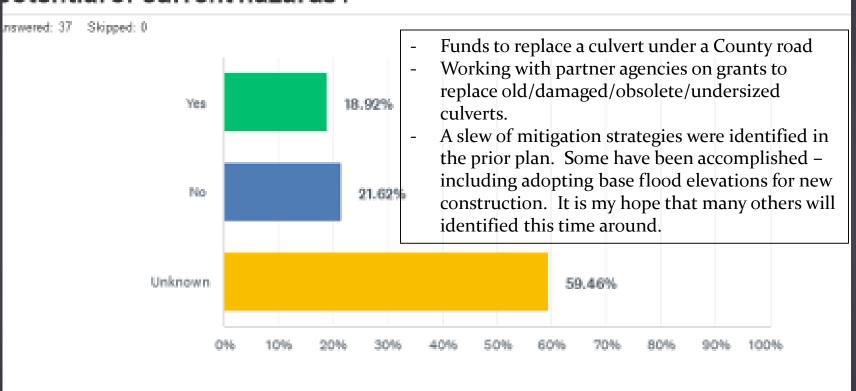


Q11: Has your community requested assistance for mitigation projects in the past?

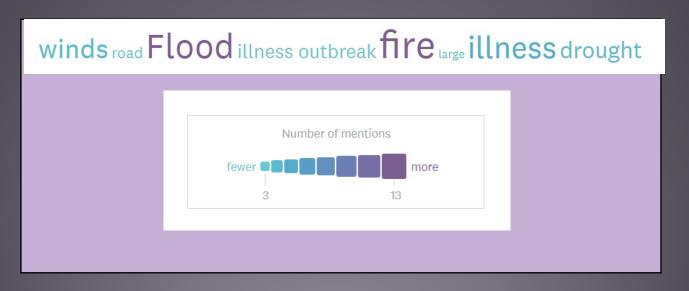




Q13: Has your community considered mitigation strategies for otential or current hazards?

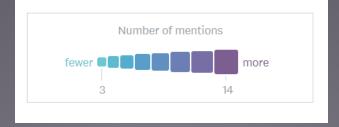


Q9. What type of natural hazard events are likely to have the largest impact on your community, for example fire, flood, drought, illness outbreak, etc.?



Q10. Concerns about infrastructure (dams, bridges, utilities, etc.) and the potential for a hazardous event in the future?





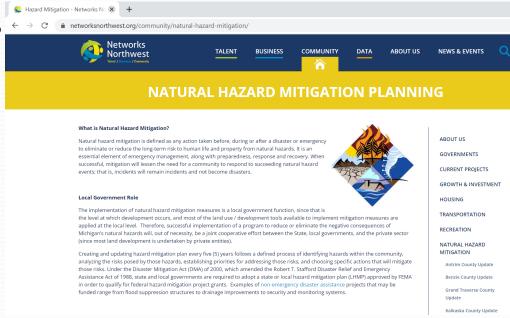
- Aging infrastructure follow through on plans in place to inspect and maintain
- 2 dams in County
- Culverts, bridges, roads; State Street Bridge, Torch River Bridge
- Keeping utilities operating in weather events

Q15. Is there any additional information you would like us to consider as we update the county's Natural Hazard Mitigation Plan?

- Talk to your local firefighters about information, they are your first line of defense, we respond to everything.
- Water quality could be considered. We have a large amount of lakes and a lot of livelihoods and quality of life rely on the continued good quality of the water. A spill, leak, or unattended issues could create water quality issues that could have an affect on the entire chain of lakes (and most of the county).
- Water drainage management
- More information on resources available from the county level to help mitigate a hazardous condition.
- No-never know had one. Will it be on the Antrim County website and alerted via news stores in local papers?
- Forest management.

Next Steps

- Identify potential Advisory Team members
- Solicit additional Community Survey responses
- Establish web presence at nwm.org/HazardPlan
- Prepare hazard analysis
- Next group meeting



Thank you!

• Any questions??