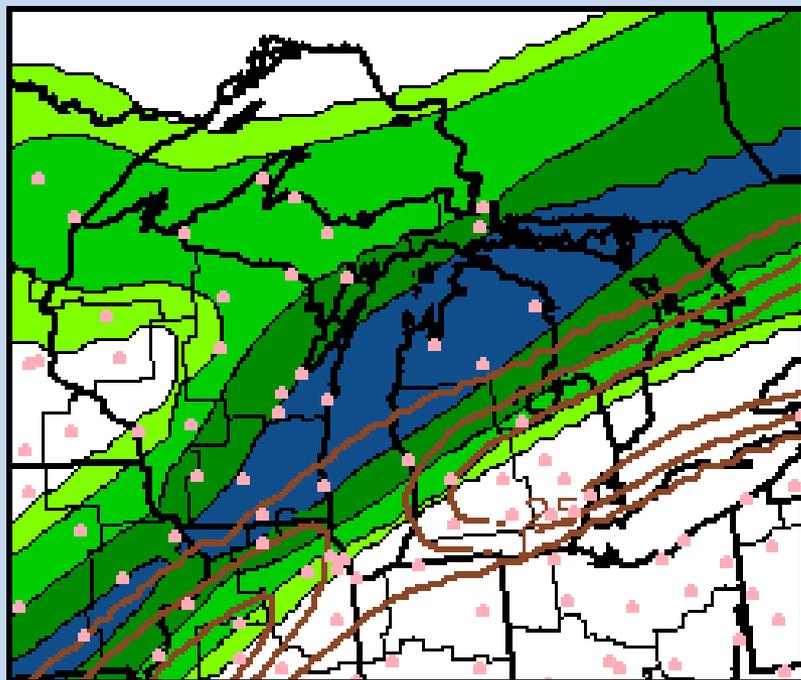




Winter Storm to Impact Michigan

Late Saturday through Sunday



Shaded Blue = 6" snow or more

Shaded Green = 2" snow or more

Inside Brown Lines = Some Ice Accumulation

Event Summary

Potentially Rare Weather for Lower Michigan

Significant Wet Snow Accumulation and
Potentially Significant Ice Accumulation

Holiday Weekend Travel Will Be Hazardous

Lengthy Power Outages Possible
Some Flooding Possible

Created: Friday, December 20, 2013 – 100 PM



NOAA National Weather Service
Website: <http://www.weather.gov>



#miwx #inwx #ohwx



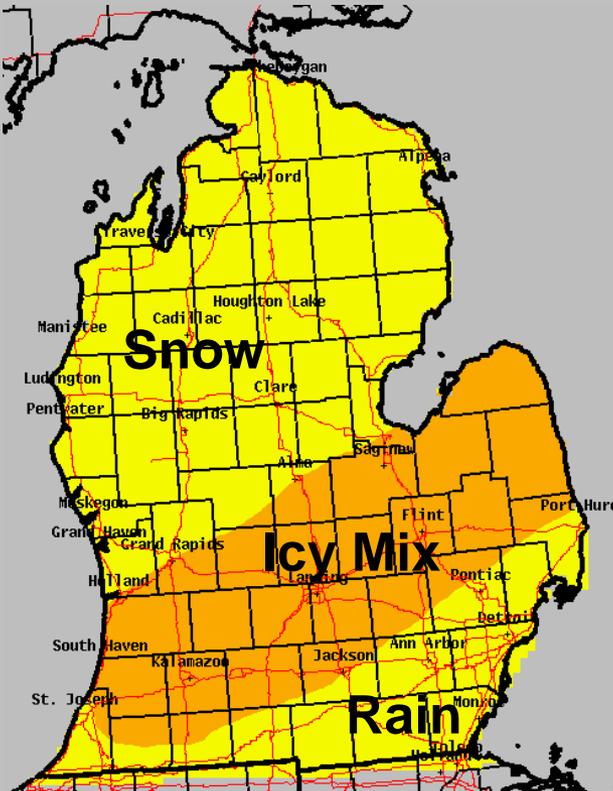


Rare Winter Storm Possible

Late Saturday through Sunday



This is Potentially Rare Weather For Portions of Lower Michigan



Weather Threats include

Up North: **Heavy Wet Snow**

Central Lower: **Ice Accumulation**

Far Lower: **Heavy Rain and Localized Flooding**

Immediate – Life Saving Action

Extremely Life Threatening

Everything Will be Shut Down Possibly for Days or Weeks

Be Prepared – Major Actions

Expect Dangerous Conditions

Expect Major Disruption of Normal Activities

Be Aware – Minor Actions

Caution – Especially When Travelling

Plan to Be Inconvenienced

Little to No Action

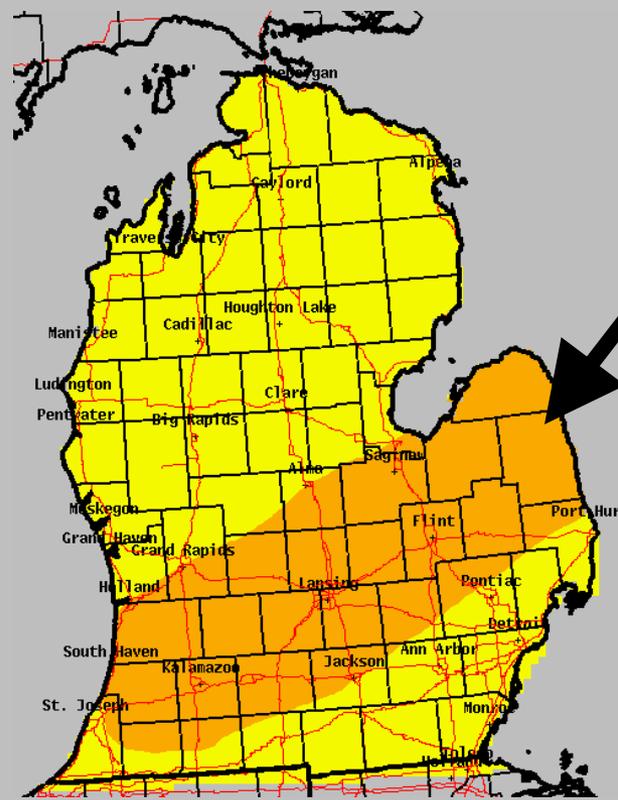
Little to No Impact on Daily Life

Plan on Minor Inconvenience



Rare Winter Storm Possible

Late Saturday through Sunday



Including: Kalamazoo, Battle Creek, Lansing, Flint, Saginaw

Expected Impacts

Hazardous Travel
Saturday Night and Sunday
I-94, I-96, I-69, I-75
US-127, US-131, US-23

Icy Secondary Roads
Icy Overpasses, Elevated Surfaces

Possible Impacts

Widespread, Lengthy Power Outages
Widespread Tree Damage

Event Cancellations/Road Closures
Localized Flooding and Ice Jams

Snow/Rain

Some Wet and Heavy Snow
Generally Less than 2 inches

Heavy Rain Possible

Ice Accumulation

At least one-tenth inch expected
More than one-quarter inch possible

Temperatures and Wind

Lows: near 32 Highs: near 32
Light Winds From the Northeast

Immediate – Life Saving Action

Extremely Life Threatening
Everything Will be Shut Down Possibly for Days or Weeks

Be Prepared – Major Actions

Expect Dangerous Conditions
Expect Major Disruption of Normal Activities

Be Aware – Minor Actions

Caution – Especially When Travelling
Plan to Be Inconvenienced

Little to No Action

Little to No Impact on Daily Life
Plan on Minor Inconvenience

Will This Happen?

Near Certain

Better than 50/50 Chance

Unlikely





Ice Accumulation Potential



Late Saturday through Sunday

Temperatures Will Play a Critical Role in Whether or Not Accumulating Ice Occurs This Weekend

The Colder the Air Temperature...
the Greater the Ice Accumulation will be with Freezing Rain

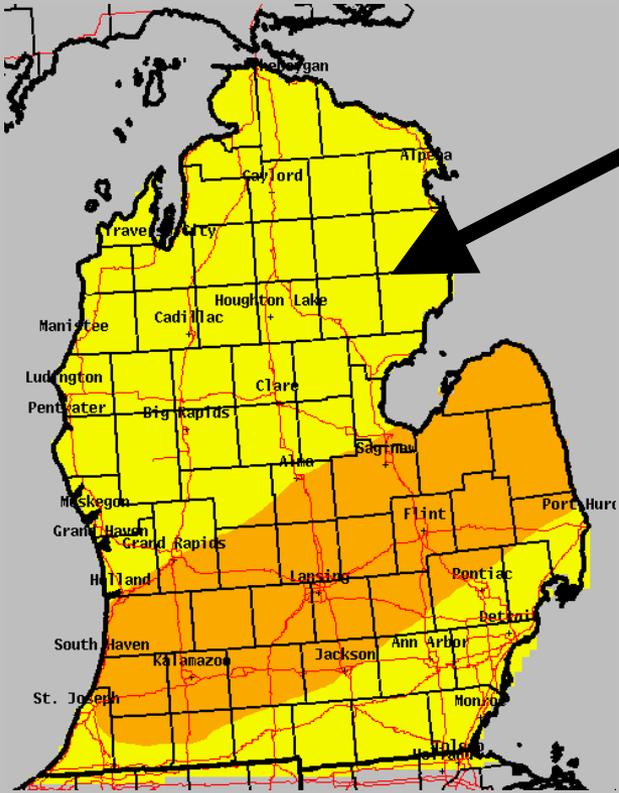
If We Have 10-15 mph Winds...

Temperature	Ice Accumulation With 0.5 Inch of Rain in 12 hours	Ice Accumulation With 1.00 Inch of Rain in 12 Hours
32°	.02 inches of ice	.05 inches of ice
31°	.11 inches of ice	.22 inches of ice
30° or less	.26 inches of ice	.48 inches of ice



Winter Weather Expected

Late Saturday through Sunday



Including: Gaylord, Traverse City, Cadillac, Manistee, Ludington, Big Rapids, Clare

Expected Impacts

**Hazardous Travel – Very Slow Speeds
Saturday Night and Sunday**

Visibility Less Than a Few Car Lengths

Possible Impacts

**Isolated Power Outages
Numerous Accidents**

**Tree Damage – especially areas impacted
by November 17-18 Severe Storms**

**Event Cancellations
Road Closures**

Snow

**Wet and Heavy Snow
4 to 8 Inches Expected
Worst Saturday Night and Sunday**

Ice Accumulation

None Expected

Temperatures and Wind

**Lows: 18-25 Highs: 18-25
Light Winds from the North/Northeast**

Immediate – Life Saving Action	Extremely Life Threatening Everything Will be Shut Down Possibly for Days or Weeks
Be Prepared – Major Actions	Expect Dangerous Conditions Expect Major Disruption of Normal Activities
Be Aware – Minor Actions	Caution – Especially When Travelling Plan to Be Inconvenienced
Little to No Action	Little to No Impact on Daily Life Plan on Minor Inconvenience

Will This Happen?	
Near Certain	
Better than 50/50 Chance	
Unlikely	

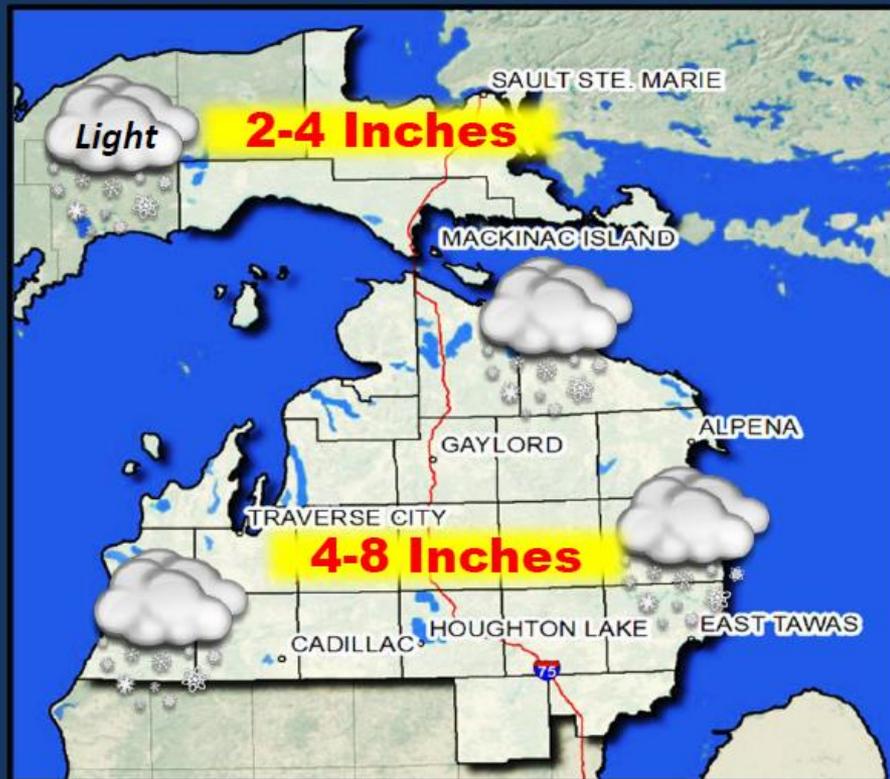


End of Weekend Snow Storm in northern Michigan



Slick and hazardous travel conditions expected

First Guess Snowfall Totals



Weather Highlights

- Snow develops late Saturday night and continues all day Sunday
Snow type: Wet and heavy
- Biggest snow accumulations will be south of the Mackinac Bridge.

Expected Storm Impacts

- ✓ Slick and hazardous travel conditions
If possible, travel on Saturday
- ✓ Localized tree damage
- ✓ Localized power outages

Stay tuned for updates on this developing winter storm:



<http://weather.gov/gaylord>



US.NationalWeatherService.Gaylord.gov



@NWSGaylord



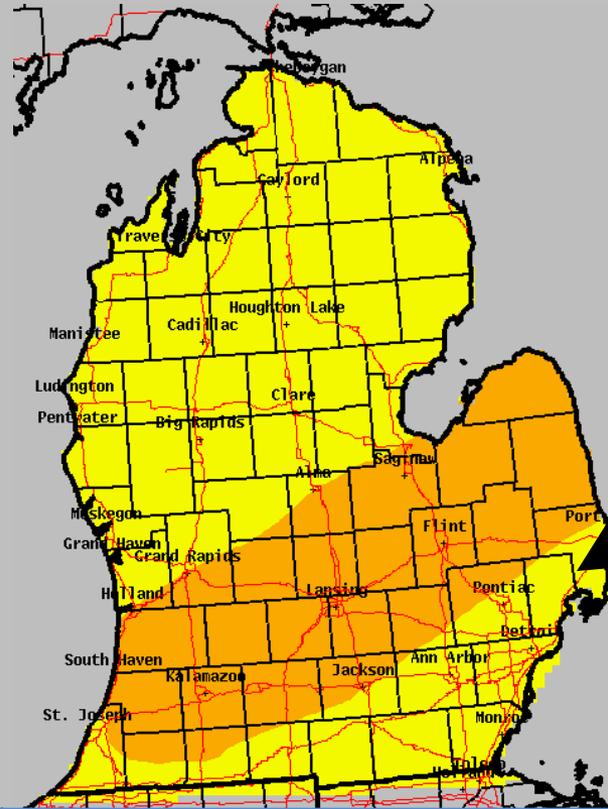


Winter Weather Possible

Late Saturday through Sunday



Including: Detroit, Pontiac, Ann Arbor, Monroe, St Joseph, Benton Harbor



Possible Impacts

Hazardous Road Conditions

Localized Flooding with Rapid Melting Snowpack and Ice Covered Rivers

**Event Cancellations
Temporary Road Closures**

Snow/Rain

Heavy Rain Expected

**Some Wet and Heavy Snow
Less than 1 Inch Expected**

Ice Accumulation

Maybe a Glaze of Ice

Temperatures and Wind

**Lows: Near 32 Highs: 35-40
Light Winds from the Northeast**

Immediate – Life Saving Action

Extremely Life Threatening
Everything Will be Shut Down Possibly for Days or Weeks

Be Prepared – Major Actions

Expect Dangerous Conditions
Expect Major Disruption of Normal Activities

Be Aware – Minor Actions

Caution – Especially When Travelling
Plan to Be Inconvenienced

Little to No Action

Little to No Impact on Daily Life
Plan on Minor Inconvenience

Will This Happen?

Near Certain

Better than 50/50 Chance

Unlikely





Weather Summary

Late Saturday through Sunday



Chance of Freezing Rain Saturday – Saturday Night
Best Chances for Light Ice Accumulation
Cass and Berrien Counties in Michigan

Saturday to Saturday Night
Local Flooding Possible



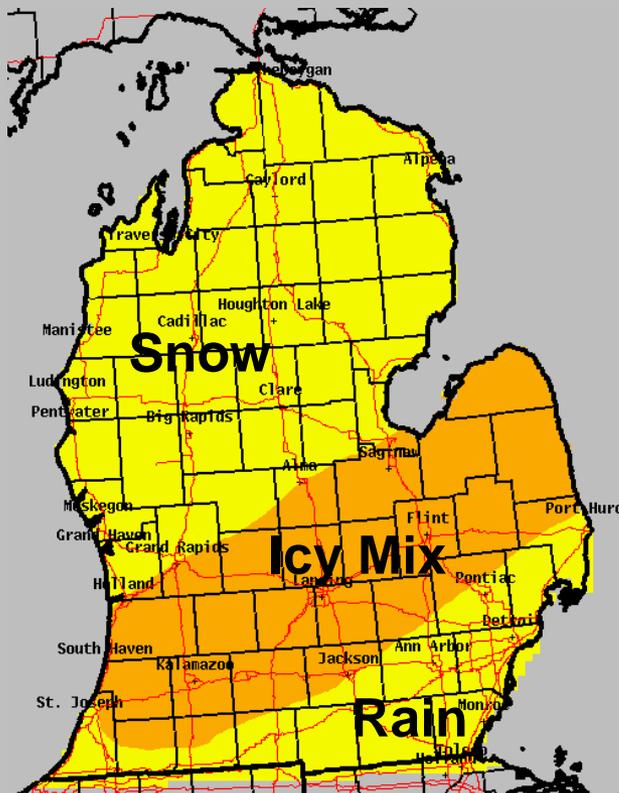
1 to 3 inches of Rain

1 to 3 Inches of Rain
Localized 4 inches Possible



Winter Storm Impact Summary

Late Saturday through Sunday



Significant Wet Snow Accumulation and Potentially Significant Ice Accumulation

Holiday Weekend Travel Will Be Hazardous Earlier Saturday Travel Will be Better

Lengthy Power Outages Possible Some Flooding Possible

Additional Snow, Hazardous Travel near Lake Michigan Sunday Night, Monday

Immediate – Life Saving Action	Extremely Life Threatening Everything Will be Shut Down Possibly for Days or Weeks
Be Prepared – Major Actions	Expect Dangerous Conditions Expect Major Disruption of Normal Activities
Be Aware – Minor Actions	Caution – Especially When Travelling Plan to Be Inconvenienced
Little to No Action	Little to No Impact on Daily Life Plan on Minor Inconvenience



For Additional Information



Links Below are Clickable in PDF File of the Briefing



Winter Weather Briefing Slides

www.weather.gov/grandrapids/webinars

Regional Weather Radar Loop

www.weather.gov/radar



- @NWSDetroit
- @NWSGrandRapids
- @NWSGaylord
- @NWSIWX (northern Indiana)
- @NWSMarquette



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