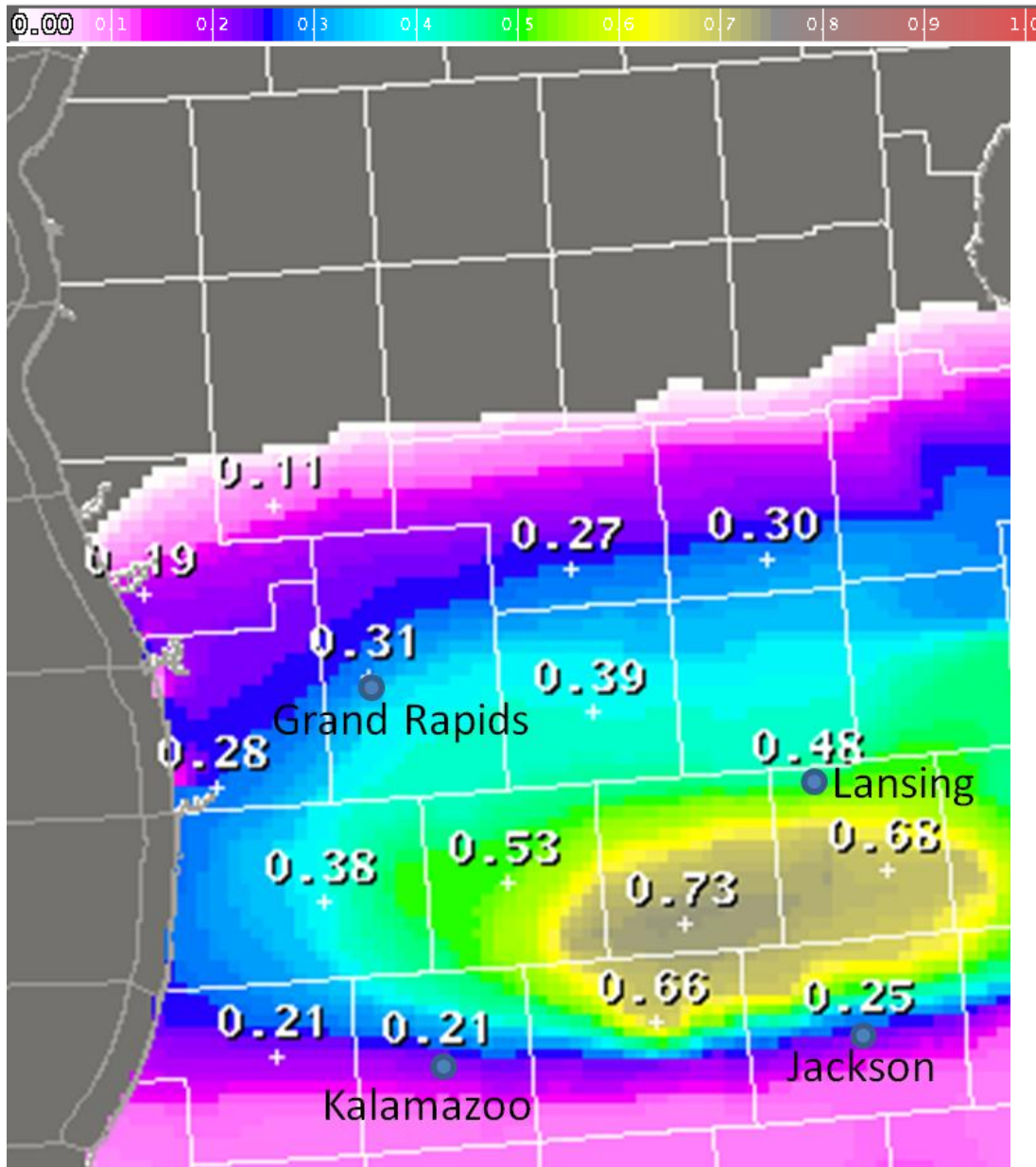


21-22 December 2013 Ice Storm

A storm system moved into the Great Lakes region, bringing a mix of freezing rain, sleet, ice pellets, and snow to the region. Slick roads developed, but the primary impact was the large scale power outages that affected hundreds of thousands of residents across Lower Michigan. Tree limbs and even whole trees came down under the weight of ice. This was one of the more significant icing events on record to affect the region. **Contact your local Red Cross for more information about warming centers set up throughout the region.**

24 Hour Observed and Estimated Ice Accumulation, Ending 4pm 12/22



Winter Precipitation Summary – National Weather Service Grand Rapids, MI

Ice Reports

LOCATION	PRECIP (INCHES)	TIME/DATE OF OBSERVATION	LAT	LON
MICHIGAN				
..ALLEGAN COUNTY				
2 SSE HOLLAND	0.16 M	148 AM 12/22	42.75N	86.10W
5 E CASTLE PARK	0.34 M	700 AM 12/22	42.74N	86.10W
..CALHOUN COUNTY				
3 WSW BATTLE CREEK	0.32 M	123 AM 12/22	42.30N	85.25W
1 SSW SPRINGFIELD	0.56 M	700 AM 12/22	42.31N	85.25W
..CLINTON COUNTY				
DEWITT	0.20 E	201 AM 12/22	42.84N	84.58W
..KALAMAZOO COUNTY				
KALAMAZOO	0.20 E	1226 AM 12/22	42.28N	85.59W
..KENT COUNTY				
1 NNE BELMONT	0.25 M	815 AM 12/22	43.10N	85.60W
3 ESE KENTWOOD	0.25 M	123 AM 12/22	42.88N	85.53W
1 SSW EAST GRAND RAPIDS	0.30 M	853 AM 12/22	42.94N	85.61W
3 ENE KENTWOOD	0.36 M	700 AM 12/22	42.89N	85.54W
..MUSKEGON COUNTY				
MUSKEGON	0.25 M	920 AM 12/22	43.23N	86.26W
..VAN BUREN COUNTY				
BLOOMINGDALE	0.25 E	858 AM 12/22	42.38N	85.96W
ICE STORM REPORTS				
LOCATION	OBSERVED VALUE	TIME/DATE OF OBSERVATION	LAT	LON
MICHIGAN				
..ALLEGAN COUNTY				
ALLEGAN	0.40 M	1219 PM 12/22	42.53N	85.85W
MARTIN	0.75 M	1138 AM 12/22	42.54N	85.64W
..BARRY COUNTY				

Winter Precipitation Summary – National Weather Service Grand Rapids, MI

3 NW DELTON	0.63 M	1200 PM 12/22	42.53N	85.45W
2 NW DELTON	0.75 M	418 PM 12/22	42.52N	85.44W

..CALHOUN COUNTY

MARSHALL	0.63 M	843 AM 12/22	42.26N	84.96W
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..INGHAM COUNTY

LANSING	0.40 M	1000 AM 12/22	42.71N	84.55W
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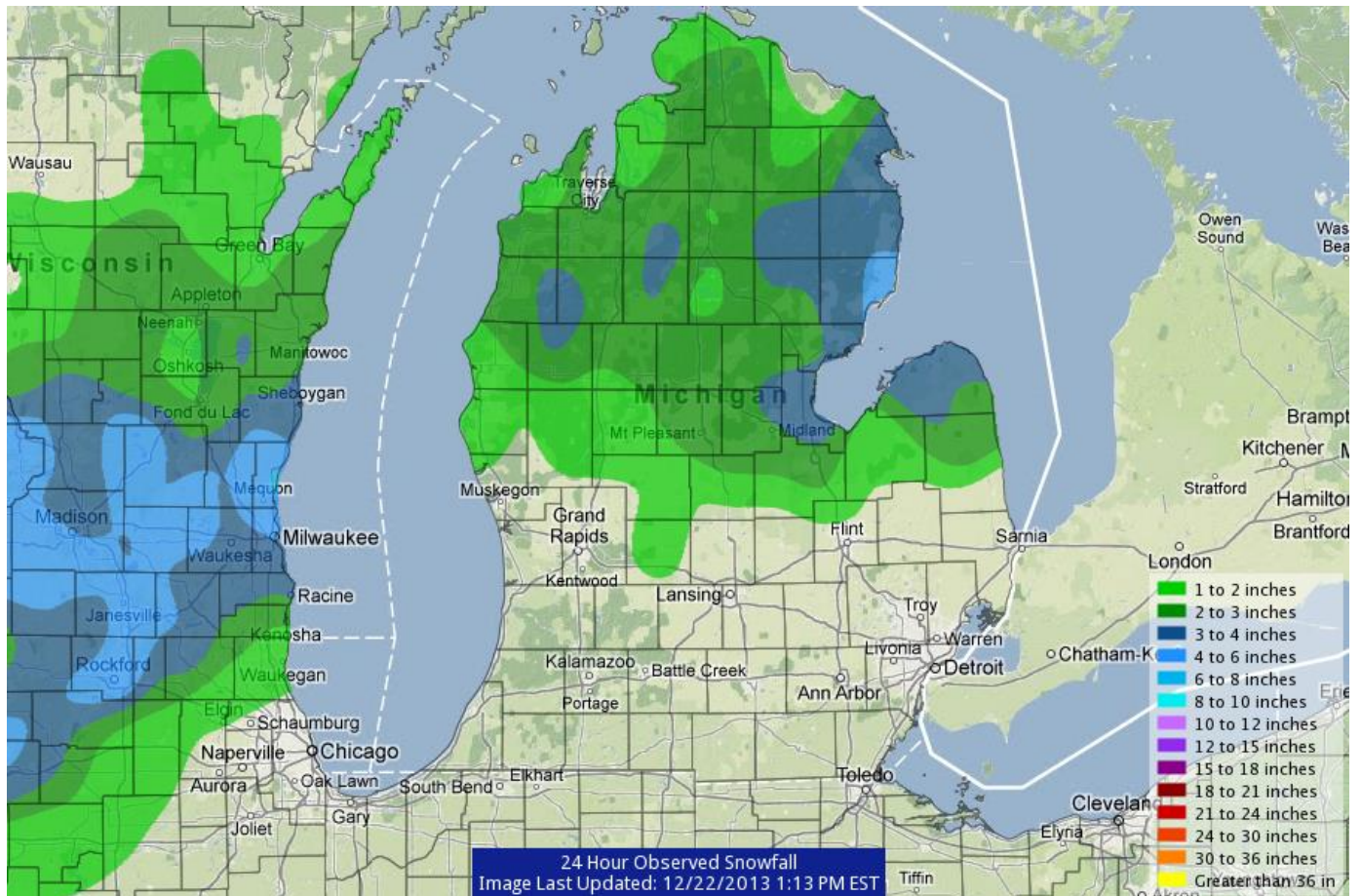
..IONIA COUNTY

IONIA	0.50 M	1139 AM 12/22	42.99N	85.06W
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..KENT COUNTY

CASCADE	0.00 U	200 PM 12/22	42.91N	85.49W
1 S EAST GRAND RAPIDS	0.40 E	1037 AM 12/22	42.93N	85.61W
2 SSE EAST GRAND RAPIDS	0.50 M	800 AM 12/22	42.92N	85.60W

24 Hour Observed Snowfall, Ending 1pm 12/22



Winter Precipitation Summary – National Weather Service Grand Rapids, MI

Snow Reports


LOCATION	OBSERVED VALUE	TIME/DATE OF OBSERVATION	LAT	LON
MICHIGAN				
..KENT COUNTY				
3 ENE KENTWOOD	0.8 M	100 PM 12/22	42.89N	85.54W
..MECOSTA COUNTY				
BIG RAPIDS	1.3 M	700 AM 12/22	43.70N	85.48W
..MONTCALM COUNTY				
N GREENVILLE	1.0 E	421 AM 12/22	43.18N	85.26W
..MUSKEGON COUNTY				
2 WSW CLOVERVILLE	2.3 M	100 PM 12/22	43.18N	86.20W
..NEWAYGO COUNTY				
7 ENE WHITE CLOUD	1.4 M	700 AM 12/22	43.61N	85.64W
..OCEANA COUNTY				
3 NW NEW ERA	3.5 M	230 PM 12/22	43.59N	86.40W
..OSCEOLA COUNTY				
1 SE REED CITY	1.5 M	700 AM 12/22	43.87N	85.50W


Outage Map from Consumer's Energy – 5pm 12/22 (see next page).....

Winter Precipitation Summary – National Weather Service Grand Rapids, MI


Customer Outages Legend


Service Territory


 Consumers Energy

 Other

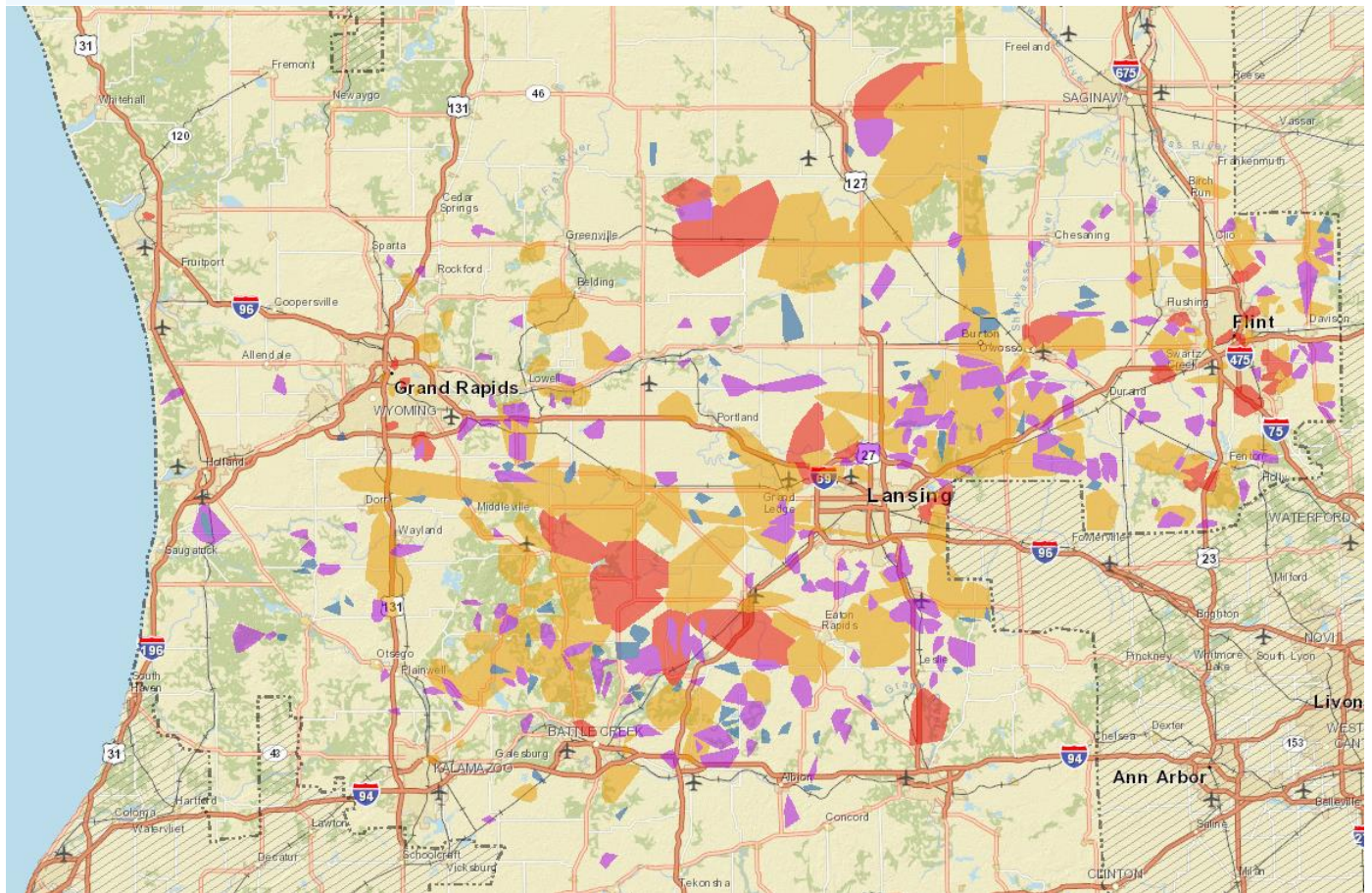
Number of Customers Affected

 1 - 50

 51 - 200

 201 - 1,000

 1,001 +



Ice Storm Pictures

Caledonia (courtesy of Lisa Britten)



Grand Rapids – Forest Hills Neighborhood (courtesy of Nathan Anthony)



Jamestown (courtesy of Eric Kuipers)



Lansing (courtesy of Joe Stiles)



Williamston (courtesy of Jake Dunne)



Holt (courtesy of Jake Dunne)

