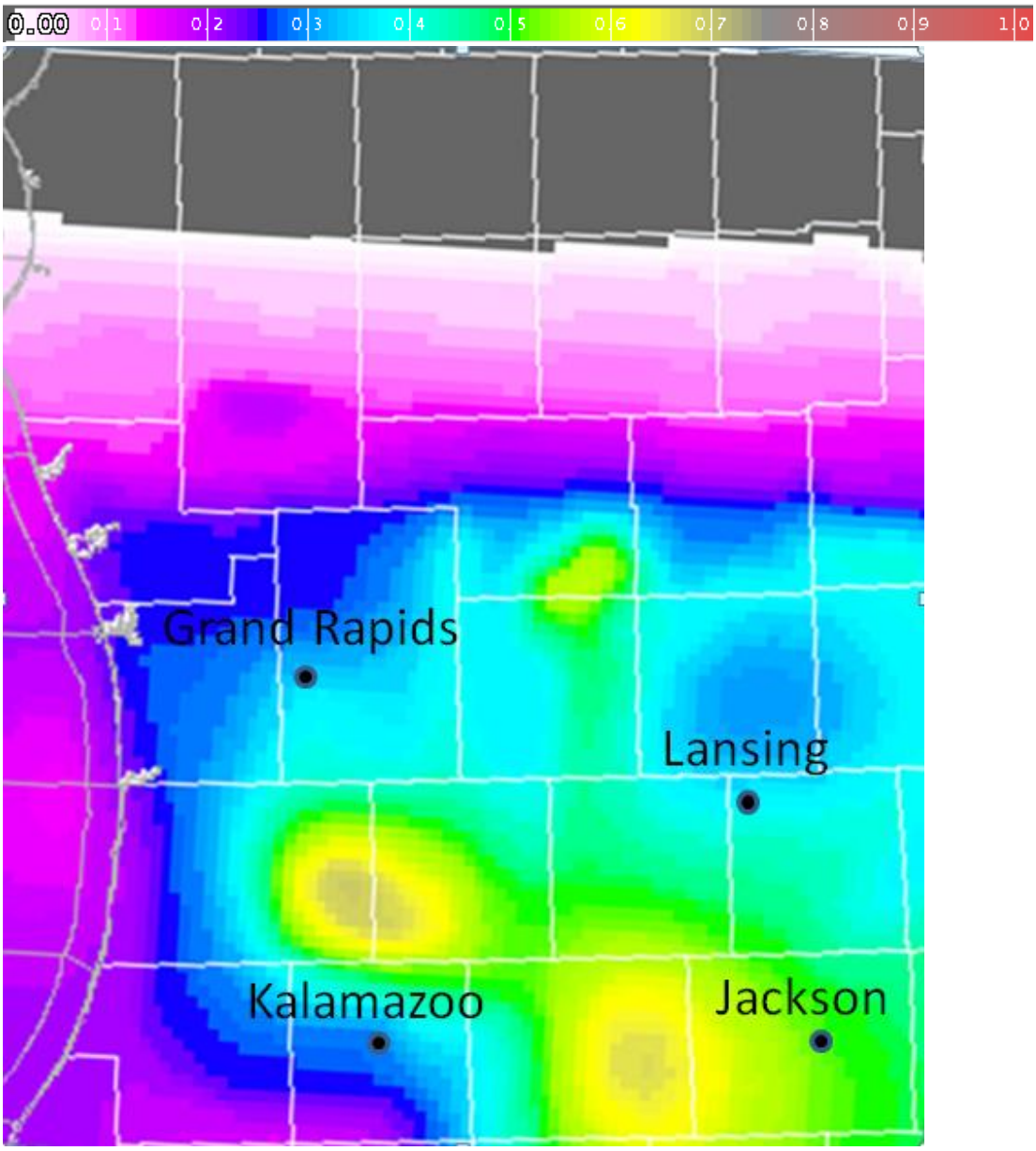
# 21-22 December 2013 Ice Storm

**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 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



## 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** | | | | |

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  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

..INGHAM COUNTY

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

..IONIA COUNTY

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

..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
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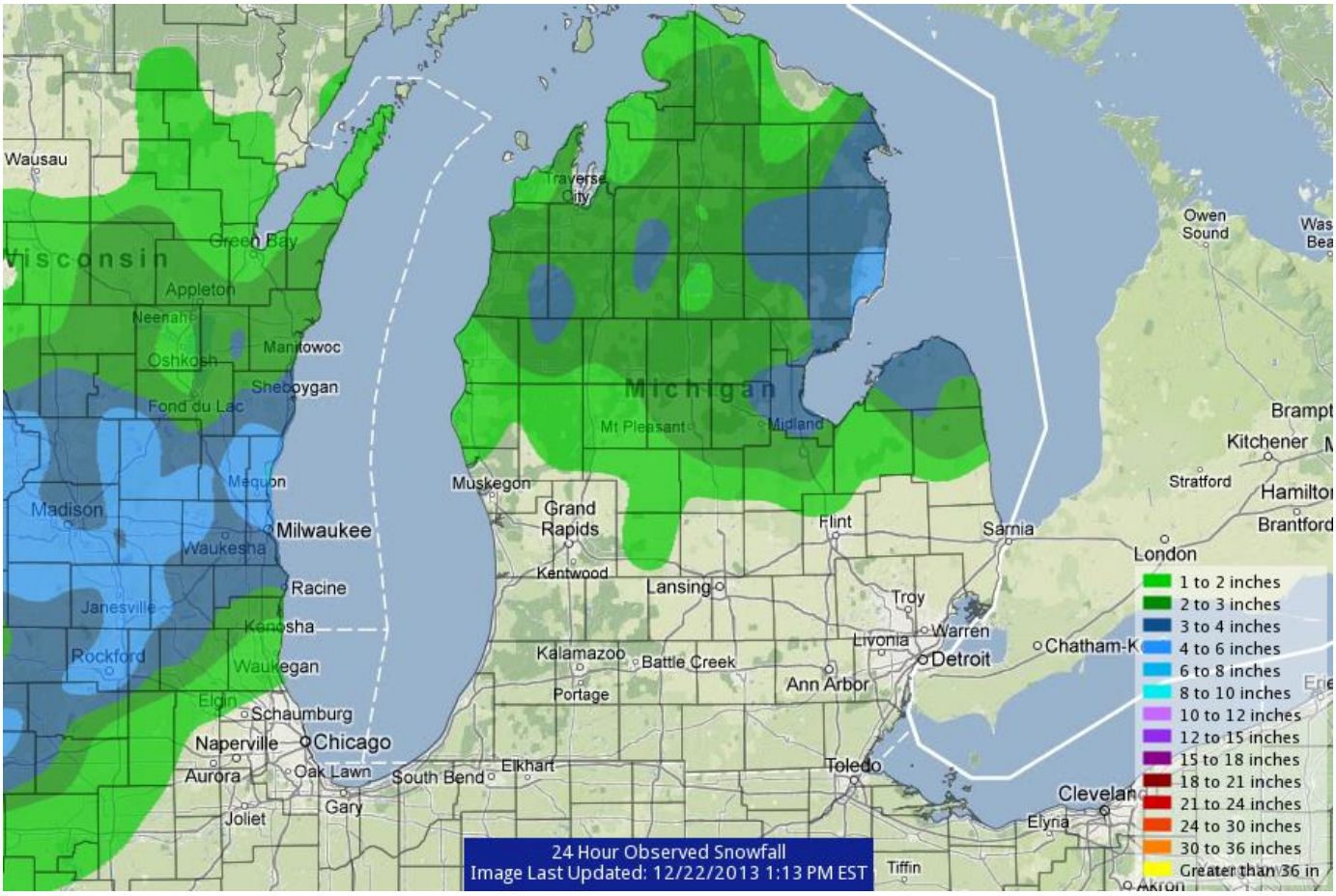
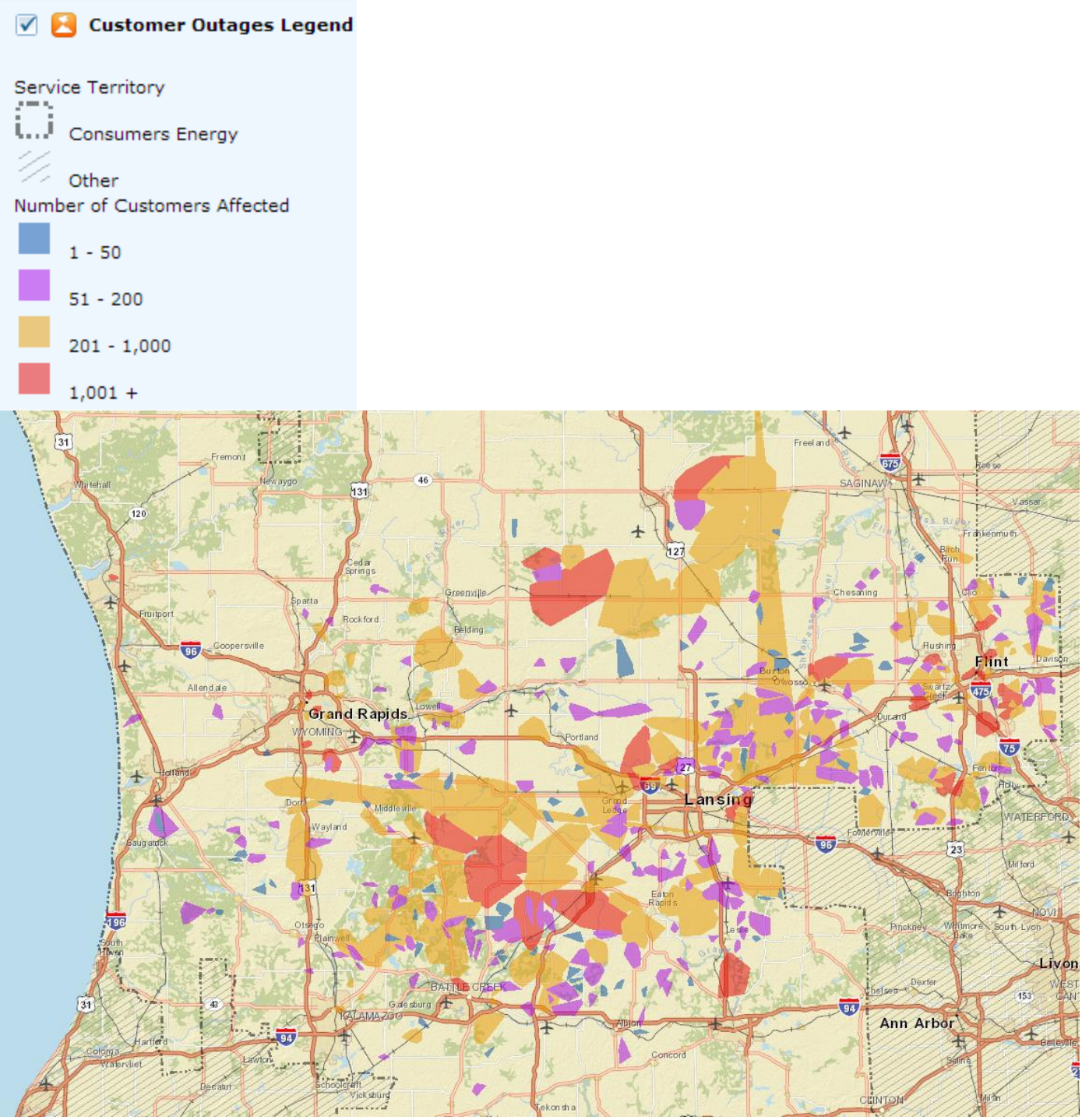
## 24 Hour Observed Snowfall, Ending 1pm 12/22



## 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).....


Customer Outages Legend
Service Territory
Consumers Energy
Other
Number of Customers Affected
1 - 50
51 - 200
201 - 1,000
1,001 +
Grand Rapids
Lansing
Flint
Ann Arbor
Livon
SAGINAW
WYOMING
BATTLE CREEK
KALAMAZOO
WATERFORD
CLINTON

## 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)