# A COMMUNITY'S RESPONSE TO THE 2017 FLOODING





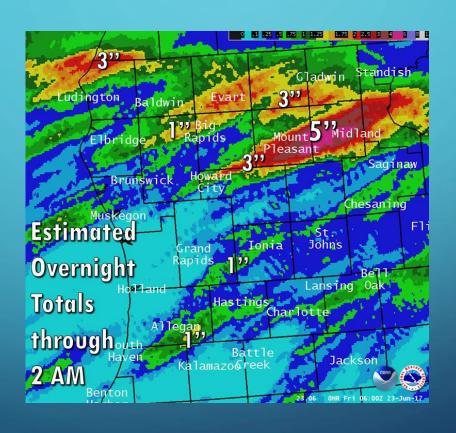
### THE BEGINNING.....THE FORECAST FROM THE NATIONAL WEATHER SERVICE GRAND RAPIDS WEATHER FORECAST OFFICE

Date: Thu, Jun 22, 2017 at 12:50 PM

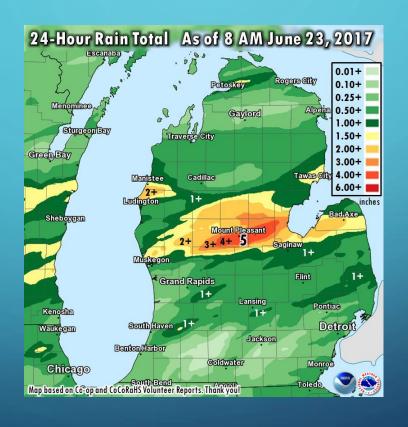
Thunderstorms Likely Thursday Evening/Overnight Isolated Severe Storms Possible

- \* Storms may develop overhead this evening around 8 PM.
- \* Additional storms may move in from Wisconsin late tonight after 11 PM.
- \* Isolated damaging wind gusts and large hail are possible this evening.
- \* Repeated storms especially areas north of I-96 could produce rainfall amounts over 1 or 2 inches, cause water ponding on roadways.

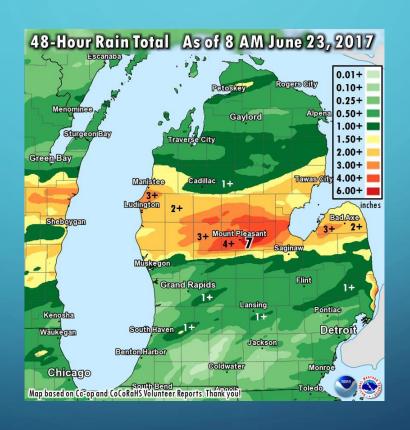
#### RADAR ESTIMATED TOTALS AT 2 A.M. ON JUNE 23



#### 24 HOUR RAIN TOTAL AS OF 8 A.M. ON JUNE 23



### 48 HOUR RAIN TOTAL AS OF 8 A.M. ON JUNE 23



#### ACTIVATING AND REPORTING TO THE EOC.....

- County Emergency Manager received a call from 911 Central Dispatch
- Isabella EOC was activated at approximately 5 a.m. on 6/23/17.
- CMDHD Emergency Preparedness Coordinator reported to the EOC upon request from the county emergency manager at 1:13 p.m. on 6/23/17.
- Press Conference took place, facilitated by the Isabella County Administrator/Controller (and designated Public Information Officer) at 2:19 p.m. on 6/23/17.
- CMDHD Health Officer reported to the EOC at 3:02 p.m. on 6/23/17.
- The EPC, Health Officer, and EH Director represented CMDHD in the EOC between 6/23/17 and 7/5/17.

## TWO COUNTIES IN CMDHD'S JURISDICTION AT THE SAME TIME

- •Isabella County fully activated their Emergency Operations Center.
- •Gladwin County partially activated their Emergency Operations Center.

# OVER 100 ROADS COMPROMISED OR WASHED OUT



### MANY HOMES SURROUNDED BY WATER





#### WATER, WATER (WELL WATER TESTING)

- Well water testing
  - Multi-Agency Resource Center was opened in Isabella County for one day. 68 water test kits were distributed.
  - 25 water test kits were distributed through the health department branch office in Isabella County.
  - Initial estimates of 55 water wells being affected (from aerial footage) on 6/24/17.
    - County Damage Assessment Teams covered 16 townships, 3 villages, 1 city, 1 university, 1 sovereign nation
  - Sample fee waived for Isabella & Midland, then came request from Gladwin.

### CAN YOU FIND THE WELL?



### THERE IT IS.....



# WATER, WATER (WASTEWATER TREATMENT PLANT)



#### WATER, WATER (BEACH SAMPLING)

- Beach sampling
  - At the beginning of sampling season (3 weeks in) so we didn't have a 30 day geomean to reference.
  - Areas that were high before the flood became higher.
  - Areas that weren't high became high.

#### WATER, WATER (RIVER ADVISORIES)

#### River advisories

- County was looking to public health for guidance on body contact with the river.
- Three kayakers on the river on Saturday that had to be rescued.
- First warning sign vs regular beach advisory sign for high levels of E. Coli
- Closing a river is not routine whereas beach advisories are routine.
- Saginaw Chippewa Indian Tribe samples along the river.
- Concerns about kids wanting to "play" in the flood waters, rivers, etc.
- Businesses (canoe liveries) wanted to put people in the water city/county parks

### ISLAND PARK IN MT PLEASANT



#### FOOD SERVICE

- Helicopter footage (aerial photos) from missing kayakers
- •Made phone calls to facilities that were closest to the river no impact; no power loss; no sewer back-up.

### DEBRIS & GARBAGE REMOVAL





#### PUBLIC INFORMATION

- More than 65 phone calls came into Environmental Health (Isabella) in the two weeks following the flood.
- More than 17 phone calls came into Environmental Health (Gladwin) in the weeks following the flood.
- CMDHD and the City of Mt. Pleasant Division of Public Works issued 3 press releases regarding the sanitary sewer overflow.
- CMDHD contributed information for 13 press releases issued by Isabella County in the days following the flood numerous press conferences and individual interviews by county PIO.
- CMDHD made 23 posts (or shared others' posts) on FB between 6/23/17 and 9/7/17.

### A VISIT FROM GOVERNOR SNYDER





# AGENCY COORDINATION & COMMUNICATION (INSIDE AND OUTSIDE)

- All functions of the EOC
- State EOC and CHECC
- Internal updates to staff
- Coordinated public information plan from the beginning all messages were released in one press release by all entities.
- Who are your partners?

### SUCCESSES AND LESSONS LEARNED — PUBLIC HEALTH

#### Successes:

- "Three-deep" is the rule.
- Our Health Officer has an EH background.
- Our staff are trained in ICS.
- Staff trained in WebEOC/MI-CIMS.

#### Challenges:

- Have a plan for tracking staff time and activities (ICS 214)
- New system for notifying staff of office closure

#### INDIVIDUAL THINGS TO CONSIDER OVERALL

- Describe the types of homes impacted
- Average depth of the water in the structures and severity
- What happens if the government doesn't help?
- Unmet needs
- Lack of temporary housing

- Know special populations
- Primary language is Chinese
- Try to track location of displaced families early.
- Compounding? Vehicles damage and no public transportation
- Were furnaces and water heaters impacted?
- Boil water orders issued or utility interruptions

#### THANK YOU!

Melissa DeRoche, Emergency Preparedness Coordinator

(Collaboration with Steve King, Environmental Health Director)

Central Michigan District Health Department

&

Marc Griffis, Emergency Management Director

Isabella County