



COUNTY OF
MIDLAND
OFFICE OF EMERGENCY MANAGEMENT

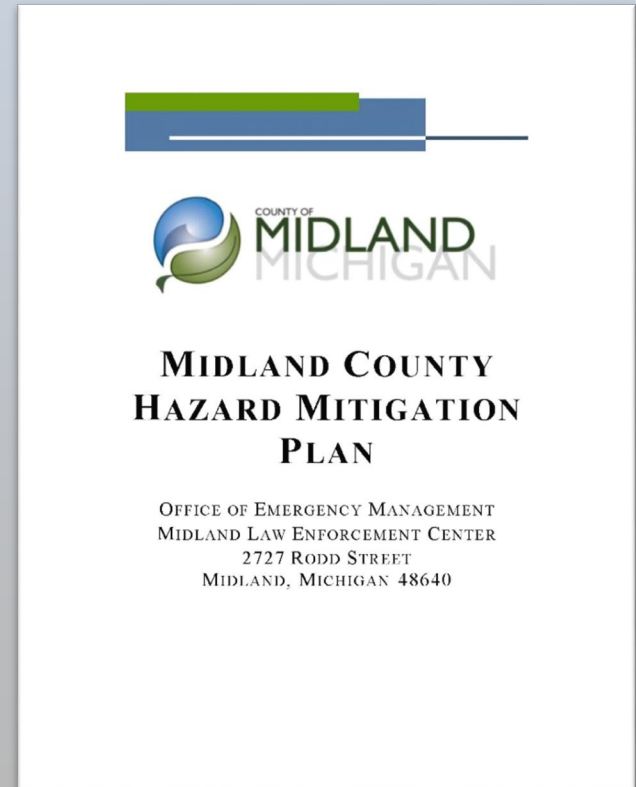
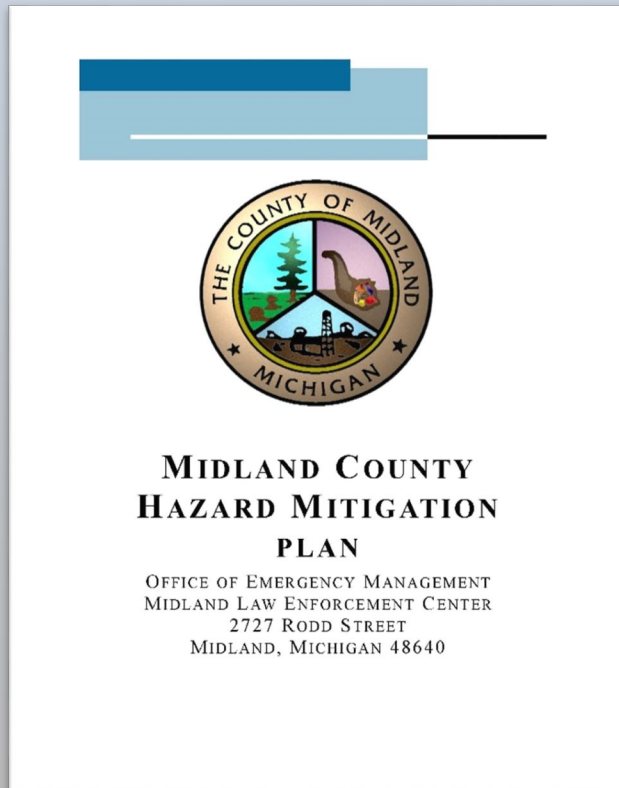
JENIFER BOYER
MIDLAND COUNTY
EMERGENCY MANAGEMENT COORDINATOR

JBOYER@CO.MIDLAND.MI.US

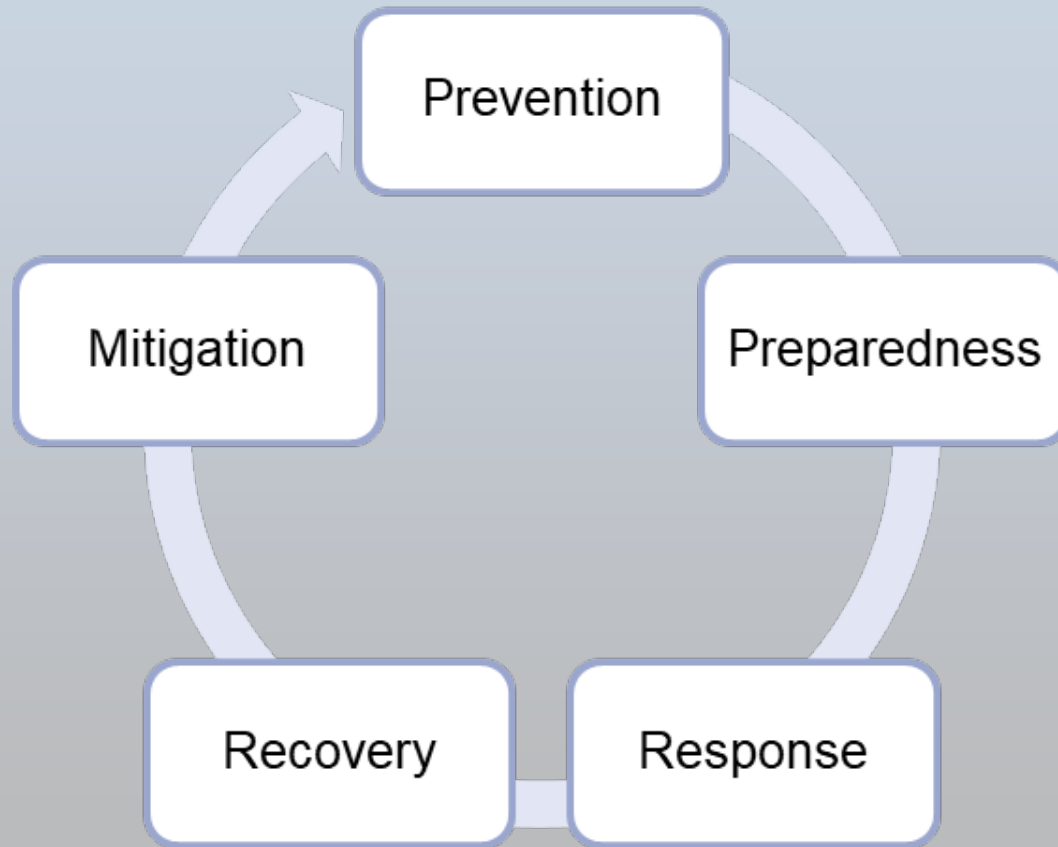
(989) 264-4247

2023 MIDLAND COUNTY HAZARD MITIGATION PLAN UPDATE

July 10, 2023



COMPREHENSIVE EMERGENCY MANAGEMENT



WHAT IS HAZARD MITIGATION?

- HAZARD MITIGATION IS ANY ACTION TAKEN BEFORE, DURING, OR AFTER A DISASTER TO PERMANENTLY ELIMINATE OR REDUCE THE LONG-TERM RISK TO HUMAN LIFE AND PROPERTY FROM NATURAL AND TECHNOLOGICAL HAZARDS.



WHY?

- LAND USE PLANNING NOW WITH THE INTEGRATION OF COMMUNITY HAZARD VULNERABILITY WILL HELP MITIGATE FUTURE DISASTERS IMPACT TO COMMUNITY.
- REQUIRED TO BE ELIGIBLE FOR HAZARD MITIGATION FUNDS.
 - ANNUAL FUNDING AVAILABLE – PRE-DISASTER PROJECTS
 - DISASTER FUNDING AVAILABLE – POST-DISASTER PROJECTS



WHY?

- LAND USE PLANNING NOW WITH THE INTEGRATION OF COMMUNITY HAZARD VULNERABILITY WILL HELP MITIGATE FUTURE DISASTERS IMPACT TO COMMUNITY.
- REQUIRED TO BE ELIGIBLE FOR HAZARD MITIGATION FUNDS.
 - ANNUAL FUNDING AVAILABLE – PRE-DISASTER PROJECTS
 - DISASTER FUNDING AVAILABLE – POST-DISASTER PROJECTS



WHAT'S IN A HAZARD MITIGATION PLAN?

- PLANNING PROCESS
 - HAZARD IDENTIFICATION
 - RISK AND VULNERABILITY ANALYSIS
 - MITIGATION GOALS AND STRATEGIES
- PLAN MAINTENANCE
- PLAN ADOPTION
- MITIGATION ACTIVITIES IMPLEMENTED LOCALLY

LOCAL PROJECTS

- 2014 GRANT – CITY OF MIDLAND 4D PROJECT \$687,300
- 2016 GRANT – SANFORD SENIOR CENTER \$261,140
- 2017 – DISASTER DECLARATION \$766,373
 - VILLAGE OF SANFORD – PROPERTY ACQUISITION \$254,630
- 2020 – DISASTER DECLARATION \$9,000,000 (STATE)
 - VILLAGE OF SANFORD – PROPERTY ACQUISITION \$2,000,000
 - CITY OF MIDLAND – PROPERTY ACQUISITION \$4,200,000
- 2021 – HIGH HAZARD POTENTIAL DAM \$400,000
- 2022 – HIGH HAZARD POTENTIAL DAM \$300,000

TIMELINE

- APRIL – MAY 2023
 - UPDATING DATA FOR EACH HAZARD.
 - MAKING SURE FEMA REQUIREMENTS ARE MET.
 - REORGANIZING INFORMATION
 - ADDING CLIMATE CHANGE
 - ADDING SOCIAL VULNERABILITY
 - ADDING HIGH HAZARD DAM ANNEX
- JUNE 2023
 - ROLLING OUT THE HAZARD MITIGATION PLAN UPDATE TO LOCAL JURISDICTIONS AND STAKEHOLDERS.
 - IDENTIFY REPRESENTATIVES FOR EACH JURISDICTION.
 - SCHEDULED REGULARLY HELD MEETINGS
 - DEVELOP AT PUBLIC OUTREACH CAMPAIGN.

TIMELINE (CONT'D)

- JULY – SEPT 2023
 - MONTHLY MEETINGS WITH LOCAL JURISDICTIONS
 - IMPLEMENT PUBLIC OUTREACH CAMPAIGN.*
- OCT 2023
 - COMPILE FEEDBACK FROM LOCAL JURISDICTIONS INTO PLAN.
 - BEGIN WORK ON A FINAL DRAFT.
- NOV 2023
 - ACQUIRE “PRE-APPROVAL” FROM STATE OF PLAN
 - ACQUIRE “PRE-APPROVAL” FROM FEMA OF PLAN.
- JAN 2024
 - COLLECT PLAN ADOPTIONS FROM ALL JURISDICTIONS.

NEED ENGAGEMENT FROM VILLAGE



- COMMUNITY PROFILE
- PARTICIPATE IN REGULARLY SCHEDULED MEETINGS.
 - HAZARD RANKINGS
 - RISK AND VULNERABILITY ANALYSIS
- SHARE INFORMATION WITH RESIDENTS. *
- ADOPT FINAL PLAN
- IMPLEMENT MITIGATION ACTIVITIES LOCALLY

IDENTIFIED MIDLAND COUNTY HAZARDS

- WHAT MAY THREATEN THE COMMUNITY?

- WHO AND WHAT IS AT RISK?

- SEVERE WINDS
- WINTER STORMS *
- RIVER FLOODING *
- DAM FAILURE *
- TORNADO
- PUBLIC HEALTH EMERGENCY *
- WILDFIRES
- INFRASTRUCTURE FAILURE
- TERRORISM / ACTS OF VIOLENCE
- PIPELINE ACCIDENT *
- HAZARDOUS MATERIALS RELEASE
- OIL & GAS WELL

GOALS OF EXISTING PLAN

- #1 ENHANCE PUBLIC PROTECTION FROM WEATHER HAZARDS
- #2 IMPROVE AND EXPAND PUBLIC WARNING CAPABILITIES
- #3 PROMOTE WILDFIRE PROTECTION IN THE URBAN/WILD
LAND INTERFACE
- #4 PROTECT PUBLIC INFRASTRUCTURE AND FACILITIES FROM
FLOODING AND IMPLEMENT STRATEGIES TO MAKE THE
WHOLE COMMUNITY FLOOD RESILIENT.
- #5 IMPROVE PUBLIC AWARENESS OF HAZARDOUS MATERIAL
EMERGENCIES AND RELATED SAFETY PROCEDURES.

POTENTIAL **NEW** GOALS OR STRATEGIES?

EXAMPLE:

HAZARD: TORNADO

GOAL: IMPROVE PROTECTION AND WARNING.

STRATEGY:

- BUILD COMMUNITY STORM SHELTERS.
- ADDRESS LOCAL ORDINANCES REGARDING MOBILE HOME STRUCTURES TO REQUIRE STORM SHELTERS.
- ADD ADDITIONAL WARNING SIRENS ACROSS THE COMMUNITY.
- CREATE A PUBLIC OUTREACH CAMPAIGN TO ENCOURAGE HOME OWNERS TO HAVE A NOAA WEATHER RADIO AND SIGN UP FOR MASS NOTIFICATION ALERTS (NIXLE) THROUGH 911.

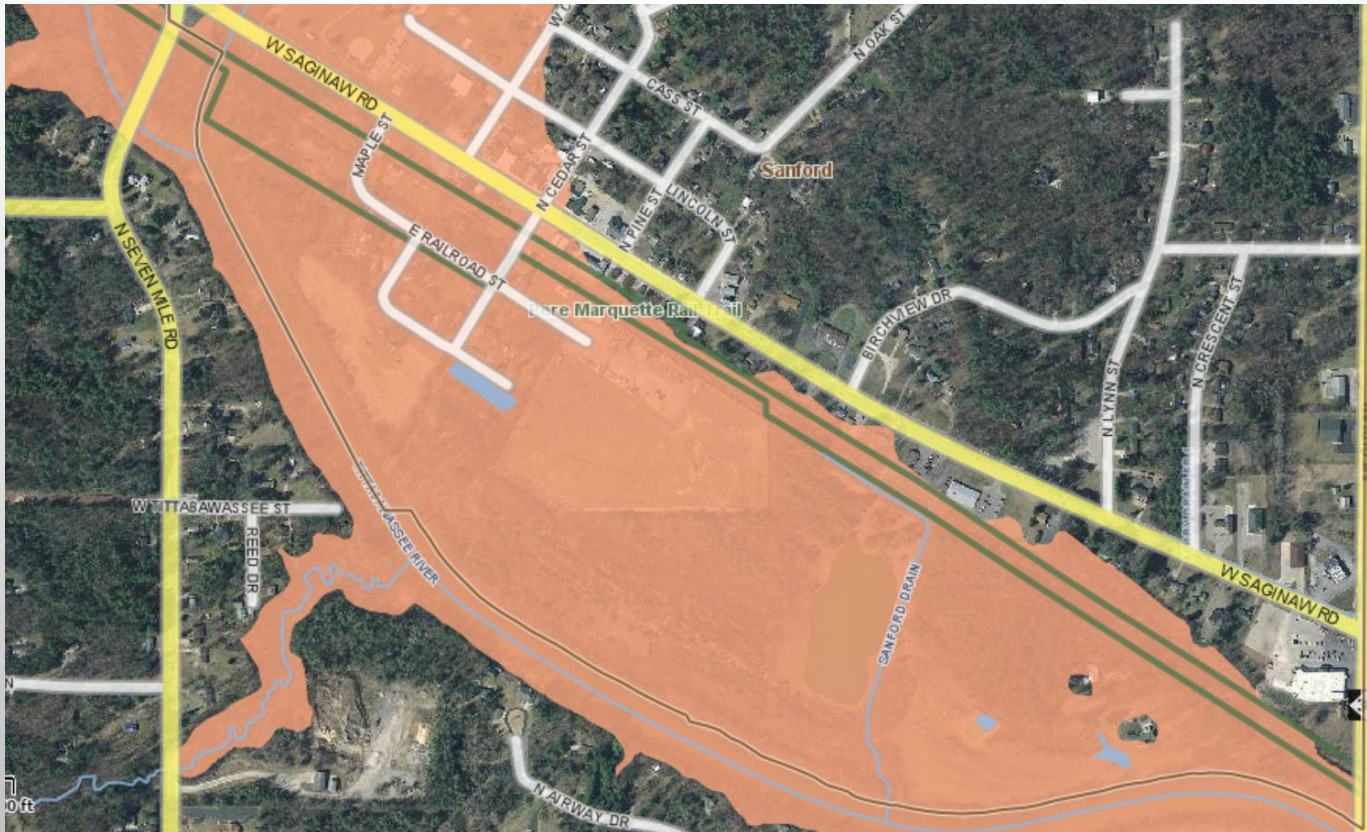
HAZARD MITIGATION COMMITTEE

- MIDLAND COUNTY BOARD OF COMMISSIONER'S REPRESENTATIVE
- MIDLAND COUNTY EMERGENCY MANAGEMENT COORDINATOR
- MIDLAND COUNTY FIRE CHIEF'S ASSOCIATION REPRESENTATIVE
- MIDLAND CITY FIRE CHIEF
- MIDLAND COUNTY DRAIN COMMISSIONER
- CITY OF MIDLAND UTILITIES DIRECTOR
- CITY OF MIDLAND DEPUTY DIRECTOR OF PLANNING
- REPRESENTATIVE FROM EACH TOWNSHIP, VILLAGE, AND CITY
- MIDLAND COUNTY ROAD COMMISSION REPRESENTATIVE
- MIDLAND COUNTY SHERIFF'S OFFICE
- FOUR LAKES TASK FORCE REPRESENTATIVE
- DNR – SANFORD FIRE OFFICER

WHY IS THIS IMPORTANT TO YOU?

VILLAGE OF SANFORD IS ZONE A

FEBRUARY 13, 2017



VILLAGE OF SANFORD IS ZONE A

FEBRUARY 13, 2017



VILLAGE OF SANFORD RESIDENTIAL AND COMMERCIAL IMPACTS

FEBRUARY 13, 2017

- APPROXIMATE IMPACT
 - RESIDENTIAL IMPROVED (35) \$3,129,400 = 9%
 - RESIDENTIAL VACANT (18) \$257,000 = 16%
 - COMMERCIAL IMPROVED (30) \$3,891,000 = 30%
 - COMMERCIAL VACANT (12) \$165,800 = 80%

OVERALL 18% OF PROPERTIES ARE IMPACTED.

\$ = CURRENT MARKET VALUE, % = OF TOTAL MARKET VALUE

FEBRUARY 13, 2017

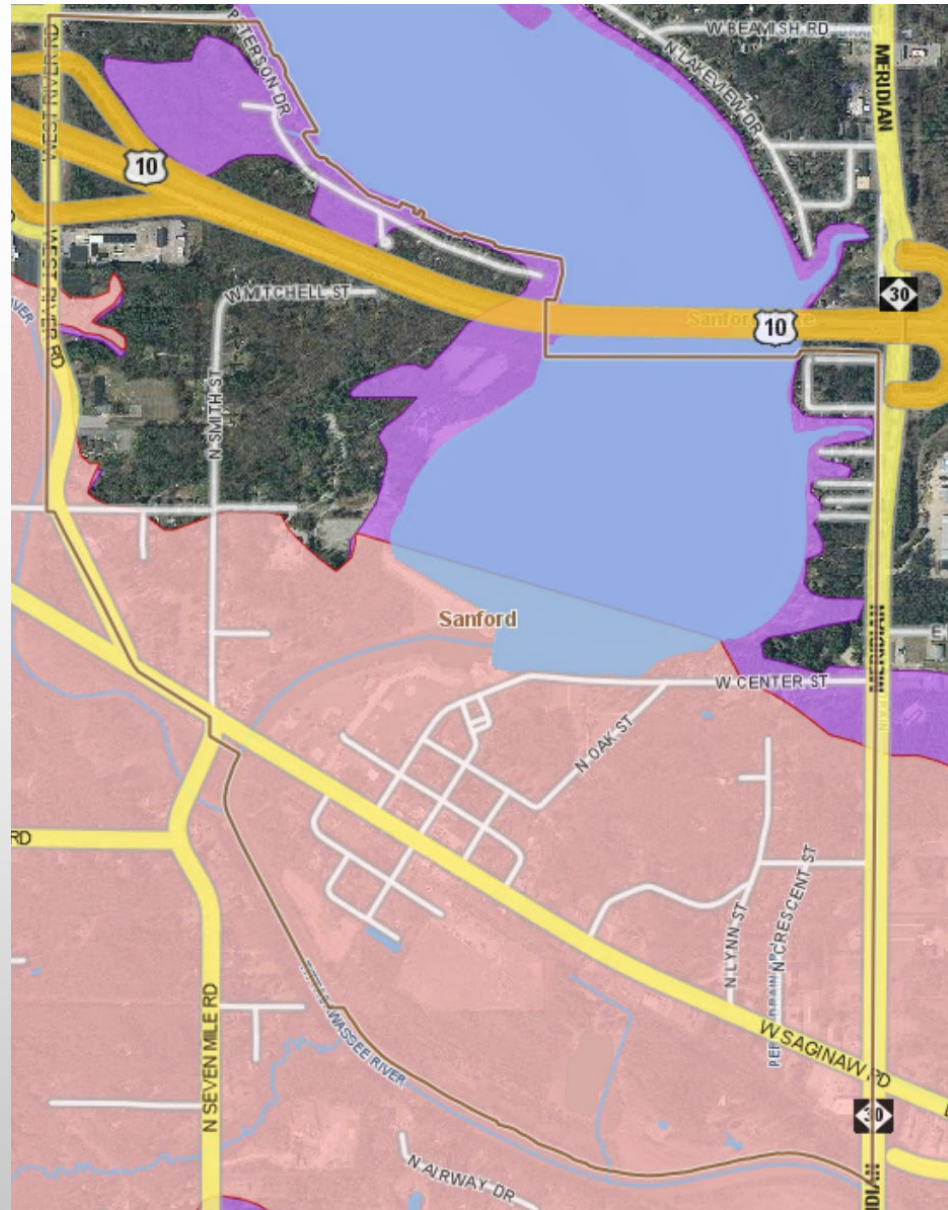
WORST CASE SCENARIO



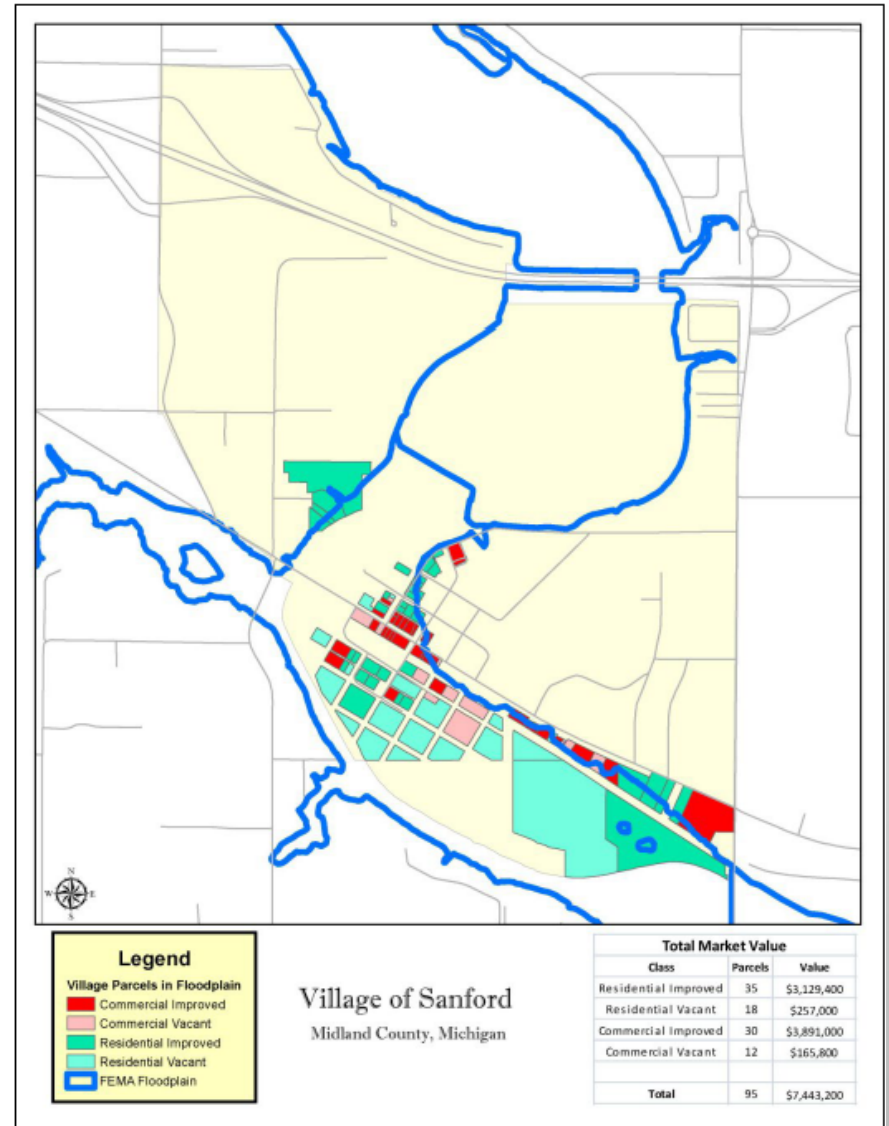
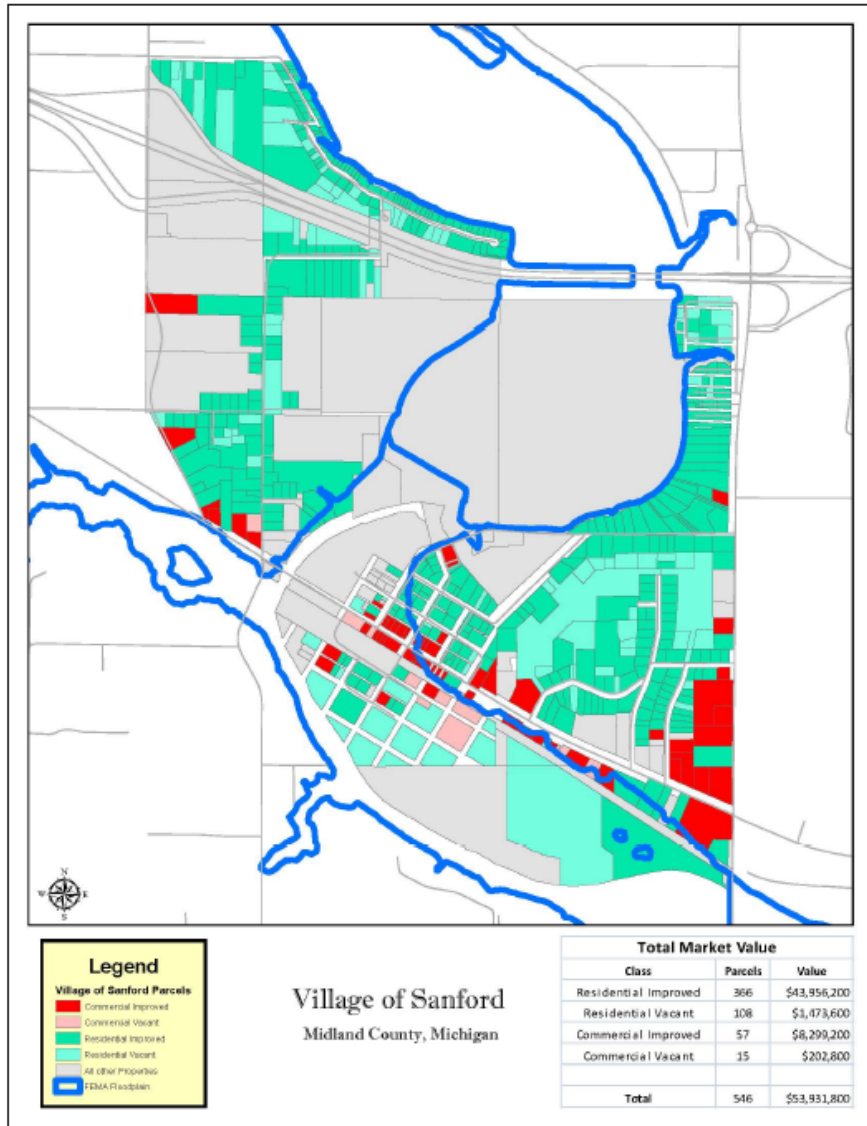
Edenville Dam
Failure



Sanford
Dam Failure



FEBRUARY 13, 2017



These graphs represent estimated numbers and values – dependant on confirming actual risk through elevation certification process

POWER OF CHANGE

- LOCAL PLANNING COMMISSIONS
 - LOCAL ZONING
 - LOCAL ORDINANCES
 - THE ABILITY TO SHAPE THE GROWTH OF YOUR COMMUNITY WHILE PROVIDING PROTECTION OR MITIGATION EFFORTS FOR RESIDENTS AND BUSINESSES.
- ACTIONS TAKEN TODAY CAN MAKE POSITIVE IMPACTS FOR THE NEXT 5, 10, 20 YEARS AND BEYOND.

Questions?

Thank You!

CONTACT INFORMATION

JENIFER BOYER
EMERGENCY MANAGEMENT COORDINATOR
2727 RODD STREET
MIDLAND, MICHIGAN 48640
(989) 832-6750
JBOYER@CO.MIDLAND.MI.US



COUNTY OF
MIDLAND
OFFICE OF EMERGENCY MANAGEMENT