Monroe County Climate Change Task Force



Wisconsin Climate Change Task Force
May 21, 2020

42° Bob Micheel – Monroe County LCD, Director







100 year flood event - every year!!



Saturated/Flooded Cropland

Symptoms of Climate Change



Flooded Basements



Manure Storage Facility - Capacity



To a find the find th

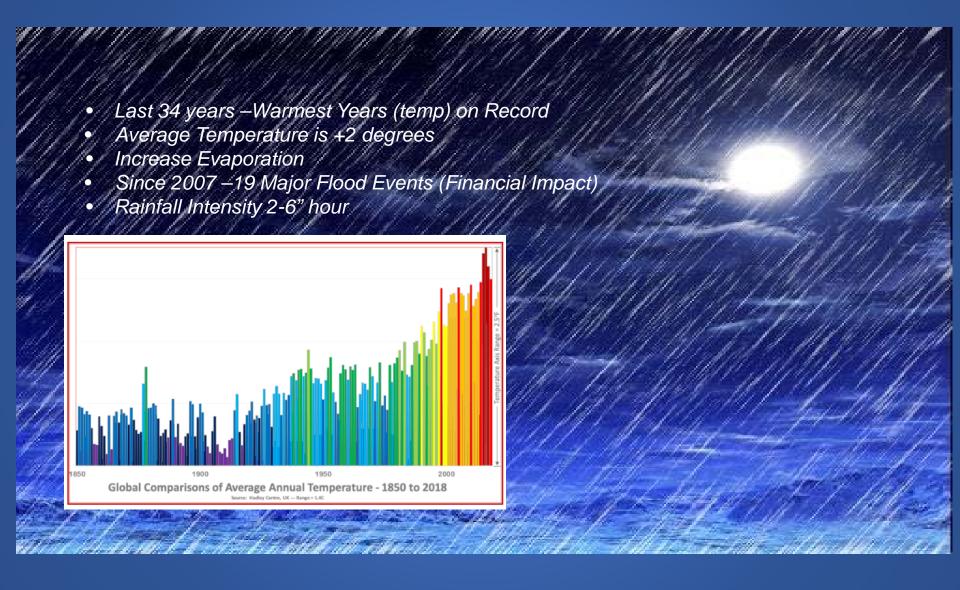
Rural Suburban CBD Suburban Rural

Ground Water - Contamination

Invasive Species

Localized Temperature Regimes

Acknowledge Climate Change







Coon Valley



Ontario



PL566 Flood Control Dams

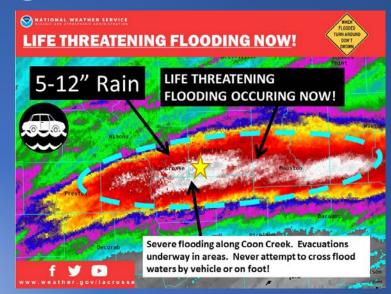
Town of Portland (Coon Creek)



Jersey Valley – Dam Breach – (Kickapoo)



August 28, 2018 – Flood Event



PL566 Flood Control Dams (Coon Creek Watershed)

- 6 of 7 Overtopped
- 3 Breached







Coon Creek Farmstead

After

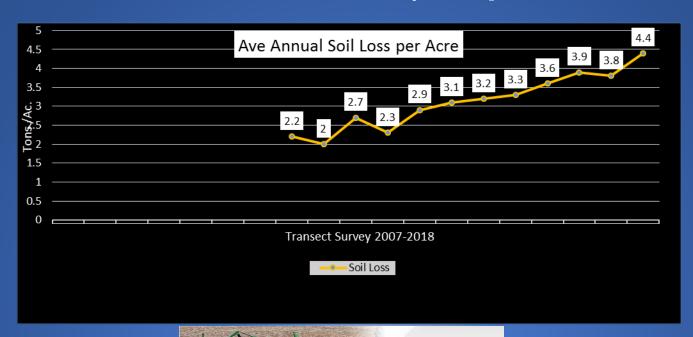
Before



Reclaim Valley Floors



Soil Erosion & Delivery - Cropland





Soil Loss = 649,057 tons/year



Mono-Culture Farming



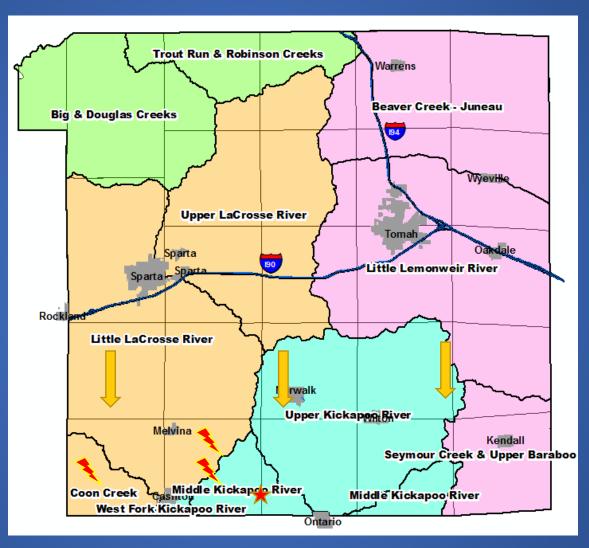
Dump Truck Loads = 32,453

Localized Rain Events

Ave. Annual Rainfall = 33" April 3rd – Dec. 31, 2018 60.79"







Monroe County - Watersheds

Infrastructure Failure







Conservation Practice Failure



Grass Waterway



Streambank Stabilization



Grade Stabilization Structure

July 1, 2019 – Concrete Stream Crossing



July 3rd - 5" rain in 90 minutes



July 5th - County Adm. Meeting

Monroe County

Climate Change - Task Force

Define: goals/plan/action - 12/11/19

(Sequence based on importance and development time)

- 1. Implement monitoring devices (weather stations) and warning systems in real time by coordinating with emergency management and the national weather service. (warning signage/Nixel/messaging)
- 2. Floodplain Management Remove structures/roads/crossings within floodway that have a history of being flooded & or under immediate threat. Define standards for building within the floodplain.
- 3. Complete flood impact study to identify 100 year floodway boundary based on recent rainfall data and current land use. Focus on areas with development pressure & or chronic flooding issues.
- 4. Zone to promote sustainable land use decisions. Improve existing enforcement of shore land zoning ordinance.
- 5. Enforcement of land use decisions.
- 6. Flood Mitigation Projects (watershed management) implement/develop water infiltration, retention practices that address rainfall and runoff.
- 7. Promote sustainable land use policies or practices that influence state and federal legislation.
- 8. Climate Change Mitigation:
 - > ID contributions/sources
 - > Establish standards for sustainability
 - Implement climate change mitigation and adaptation planning into municipal (county, town, village, city, etc.) comprehensive plans and promote planning integration throughout other municipal plans (transportation, hazard mitigation, watershed, etc.).
 - Implement mitigation programs (ex. Tree planting, mass transit, Runoff Curve Number (RCN) & Temperature balancing, Agriculture – Carbon Sequestering practices, etc.
 - Individual Empowerment
- 9. Provide information & education
- 10. Seek funding sources to implement Task Force recommendations/goals.



CCTF - 16 Members: (August 28, 2019)

- 1. County Administrator
- 2. LCD Director
- 3. Land Use Planner
- 4. UWEX Agent
- 5. Emergency Mgt. Coordinator
- 6. Hwy Commissioner
- 7. Sanitation & Zoning Administrator
- 8. County Board Supervisor
- 9. County Board Supervisor
- 10. County Board Supervisor
- 11. County Board Supervisor
- 12. Town Board Supervisor
- 13. Town Board Supervisor/Farm Bureau President
- 14. DNR Program & Policy Agent
- 15. Fort McCoy Public Affairs Officer
- 16. Fort McCoy Fisheries Biologist

Address the Symptoms:

Need to keep people out of the flood-way

*Mitigate intense rain events on the landscape

Soil Health Cover Crops

No-Till

*Manage runoff events

*Conservationist





Address the Cause



Objective #1 (2020)

Implement monitoring devices (weather stations) and warning systems in real time by coordinating with emergency management and the national weather service.

• Land Use - Roads, Buildings, Cropland, etc.



Crossings



Ladder Effect



"The land just blew away; we had to go somewhere."

— Kansas preacher, June 1936

Today - Climate Change?



CLIMATE CHANGE IN MONROE COUNTY

WHEREAS, climate change poses a serious threat to Monroe County's natural resources, agriculture, public health, communities, tourism, and economy; and

WHEREAS, increasing instances of extreme weather events since 2007 and more recently August of 2018 and July of 2019 are devastating Monroe County and surrounding communities; and

WHEREAS, the safety of our citizens is of the utmost importance and adequate monitoring of severe weather occurrences will help protect individuals, businesses and communities; and

WHEREAS, adequate floodplain management can help alleviate future property damage; and

WHEREAS, updating and or creating the county's floodplain map through an impact study will more accurately reflect current weather events; and

WHEREAS, identifying current landuse trends and challenges will allow the county to improve enforcement of standard zoning policies and practices to create sustainable land use decisions; and

WHEREAS, Monroe County citizens, businesses, and municipalities have incurred significant financial damage in the millions of dollars due to climate change and extreme weather events. These damages are impacting the municipalities budgets and adding substantial financial strain; and

WHEREAS, the Climate Change Task Force (CCTF) will seek federal, state, and local technical and financial assistance to implement Task Force recommendations and goals; and

WHEREAS, the CCTF will provide educational materials and inform the citizens of Monroe County about climate change and it's effects on the County; and

WHEREAS, establishing mitigation programs throughout Monroe County that will benefit all citizens; and

WHEREAS, promotion of sustainable land use policies and practices with the state and federal government is vital for future change; and

WHEREAS, our county has a responsibility to current and future generations of Monroe County residents to act to prevent continuing damage to our resources and infrastructure and to invest in solutions that help to mitigate the changes that have already occurred.

NOW, THEREFORE, BE IT RESOLVED that the Monroe County Board recognizes that climate change is occurring in Monroe County and supports the efforts of

Monroe County Board September 28th, 2019



Resolution - Vote: 15-0-1

Re-Active / Pro-Active