

Kickapoo River Watershed – Annual Meeting



Kickapoo River Watershed

Informational Meeting on Weather Monitoring Stations

Where:

Wilton Community Hall, 400 East St, Wilton, WI 54670

When:

Tuesday, July 21st, 2020 @ 7 p.m.

Presentations:

- ◆ Kickapoo River Flooding/What can we do – Ron Luethe & Tim Welch
- ➔ ◆ Monroe County Climate Change Task Force Update -Tina Osterberg & Bob Micheal
- ◆ Weather Monitoring Equipment – Roxie Anderson
- ◆ Q & A
- ◆ How can Kickapoo residents participate?—Ron Luethe & Tim Welch

Climate Change Task Force



Due to COVID-19 please practice social distancing (6' between others, face covering, etc.)

Monroe County Climate Change Task Force



*Monroe County Administrator – Tina Osterberg
Land Conservation Director – Bob Micheel
July 21, 2020*

Climate Change

- Last 34 years – Warmest Years (temp) on Record
- Average Temperature is +2 degrees
- Increase Evaporation
- Rainfall Intensity 2-6” hour
- Since 2007 – 20 Major Flood Events

The greatest warming is occurring during winter and spring, with nighttime temperatures increasing more than daytime temperatures.

Wisconsin's climate is changing. A wealth of temperature and precipitation data gathered over more than half a century, along with records from a variety of other periods and sources, paint a consistent picture of our state becoming generally warmer and wetter. The decades ahead are likely to bring changes much more profound than those seen so far, according to climate models.

The warming Wisconsin has experienced to date is consistent with the global trend.

The warming Wisconsin has experienced to date is consistent with the global trend. The past three decades have been Earth's warmest since reliable surface temperature records began to be kept in 1850, with a global average increase of about 1.5 degrees Fahrenheit over that period (see figure 1). In fact, temperature trends based on Arctic ice cores and other evidence indicate that the Earth's temperature

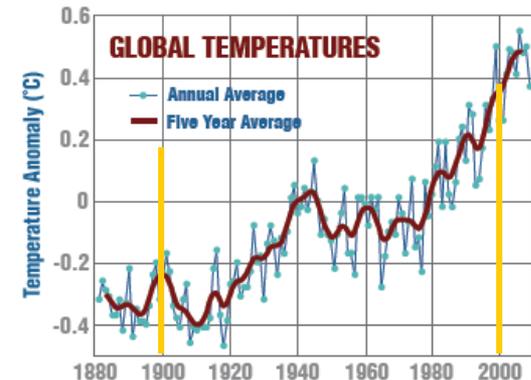


Figure 1. Global average temperatures have been steadily rising since reliable records began being kept in 1850.

Source: Intergovernmental Panel on Climate Change, 2007.

Symptoms of Climate Change?

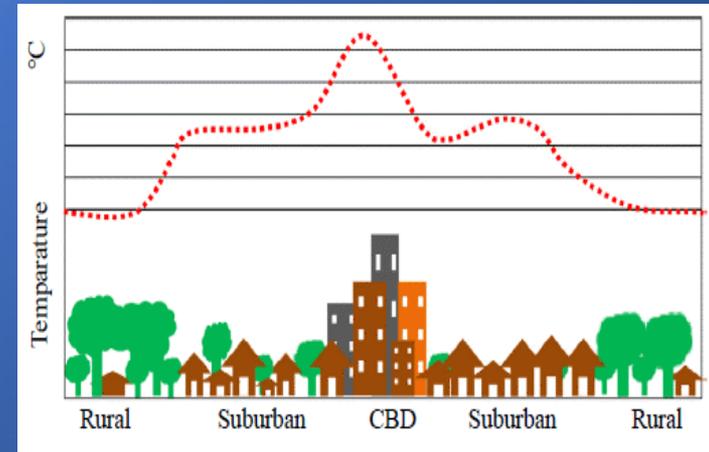


Coronavirus has changed our lives, but as you see, diseases caused by a virus, a bacteria, or a fungus, have seriously impacted our wildlife. There is much speculation as to why we're seeing a resurgence in these serious wildlife diseases. Climate change, more urban interaction of wild and domestic animals, more use of chemicals in food production, and more water and ocean pollution, have all been discussed as possible reasons. We really are in this together, and relative to humans and wildlife, we need to clean up our act.
Dr. David Samuels



Wildlife & Human Diseases (CWD - 24 states & 299 counties)

Oak Wilt



Well Water - Contamination

Invasive Species

Localized Temperature Regimes

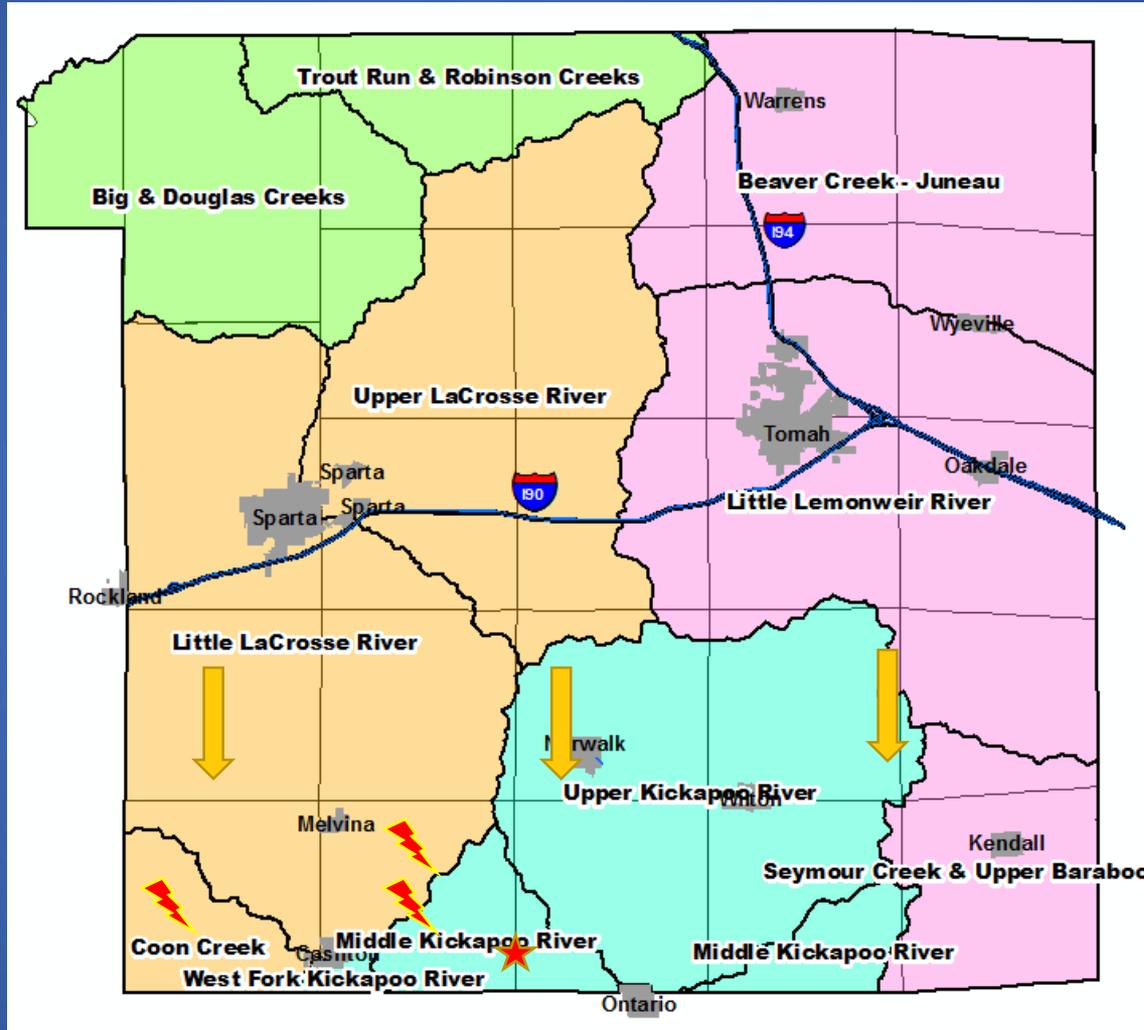


100 year flood event - every year!!

Localized Rain Events

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

★ 60.79"



Monroe County - Watersheds



2019

July 3rd (4-5"/1.5 hrs)

July 9th (1"/20 min)

July 18th (6-8"/2 hrs)

Reclaiming the Valley Floor



Saturated/Flooded Cropland



Saturated Lawns & Flooded Basements

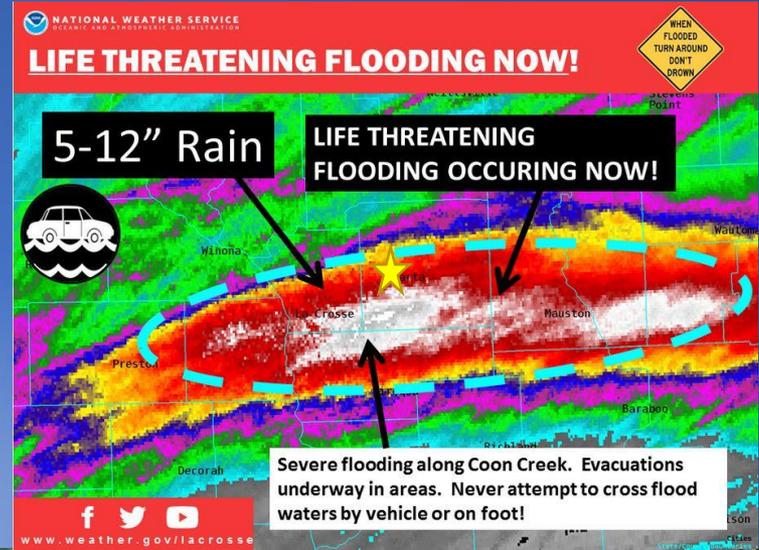


Infrastructure Failure



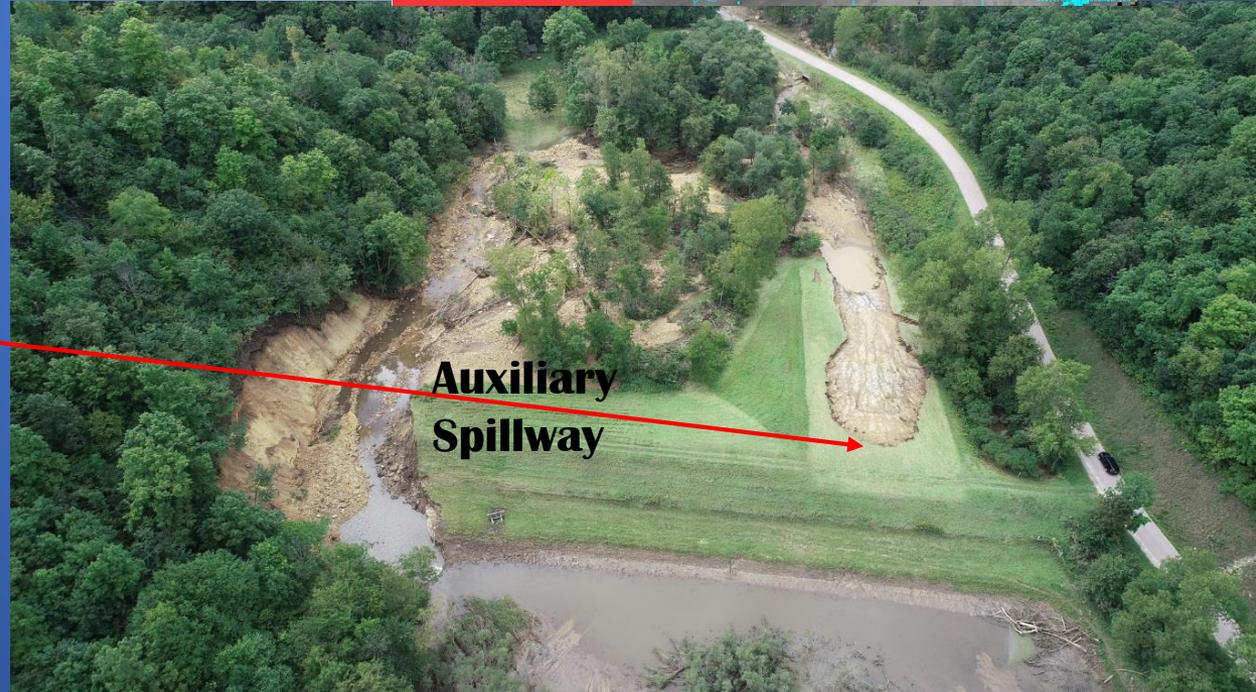
Brush Creek - 2018

August 28, 2018 Flood Event



★ PL566 Flood Control Dams (Coon Creek Watershed)

- 6 of 7 Overtopped
- 3 Breached



Conservation Practice Failure



Grass Waterway



Streambank Stabilization



Grade Stabilization Structure

CCTF Born on Date



July 1st – Concrete Stream Crossing



5" rain in 90 minutes – July 3, 2019



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

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.*

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

Objective 2 – Floodplain Management

Why are so Many Structures Failing?

- Poor or No Design
- Traditional Hydraulic Design is No Longer Adequate
- Climate Change—warmer air holds more moisture
- Population and Development Increasing—marginal sites being developed
- Regular Maintenance Neglected
- Regular Inspections and Inventories of Culverts Needed
- Lean Budgets
- Perceived Cost of Ecological Design Culverts
- More Media Coverage



- Provide training to the Town & County officials to address infrastructure (Culvert/Bridge)
- Standardize inspection form for all municipalities under the direction of DNR.
- County evaluate the cumulative effects (flooding, conductivity, fish passage, watershed management, etc.) in the permitting process.



Ladder Effect (11:4mi)

Objective 9 - Information & Education



-Media-



Wisconsin Land+Water Conservation Association

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Weekly News. Wisconsin Conservation.

February 21, 2020

TOP STORIES



Clean water bills flow smoothly through Assembly



Lt. Gov. Barnes speaks on climate change impact in WI

Climate Change Task Force



WRP Radio Interview

Climate Change Task Force – Members

CCTF Objectives Amended

Iowa Presentation Power Point

Wisconsin Climate Fast Forward Conference Report

CCTF Feb 12 Presentation – Project Cost Scenarios Updated

- ▶ February 12th, 2020 Minutes & Attendees
- ▶ February 12th, 2020 Agenda
- ▶ January 8th, 2020 Meeting Minutes, Attendees List, & DNR Stream Crossing Info
- ▶ DNR PowerPoint Presentation
- ▶ January 8 2020 Agenda
- ▶ December 11th 2019 Meeting Minutes w/ Attendees
- ▶ December 11 2019 Agenda
- ▶ October 4 2019 Agenda
- ▶ October 4 2019 Meeting Minutes
- ▶ September 5 2019 Agenda
- ▶ November 13 2019 Agenda
- ▶ November 13 2019 Meeting Minutes – Final



Messaging through participation:

- WI Climate Change Task Force
- Land & Water
- DNR, NRCS, USGS, UWEX, LCD, National Weather Service
- 5 Surrounding Counties
- Wisconsin's Green Fire
- Village, City, County, State & Federal Elected Officials
- Media
- County & Regional Planners

Grants & Donations



Objective 10 - Seek funding sources to implement task force recommendations.

RESOLUTION AUTHORIZING RESTRICTED CLIMATE CHANGE TASK FORCE DONATIONS
TO A NON-LAPSING ACCOUNT FOR THE MONROE COUNTY LAND CONSERVATION
DEPARTMENT

- 1 WHEREAS, Resolution 09-19-02 Climate Change in Monroe County was approved by the Monroe
2 County Board acknowledging that climate change is occurring in Monroe County, therefore the
3 establishment of the Monroe County Climate Change Task Force (CCTF) would address these historic
4 events through planning and education; and
5
- 6 WHEREAS, the Monroe County CCTF defined 10 goals/objectives of the task force. The first goal of
7 the task force is to implement monitoring devices (weather stations) and warning systems in real time by
8 coordinating with emergency management and the national weather service.; and
9
- 10 WHEREAS, the Monroe County CCTF has been offered donations to use towards the purchase of
11 monitoring devices; and
12
- 13 WHEREAS, the Land Conservation Department is requesting a non-lapsing account be set up to account
14 for these donations; and
15
- 16 NOW, THEREFORE, BE IT RESOLVED by the Monroe County Board of Supervisors that the Finance
17 Department Shall establish a non-lapsing account in the Land Conservation Department to hold the
18 donations received for Climate Change Task Force goals/objectives expenditures.
19
- 20 FURTHER BE IT RESOLVED that such funds shall be accepted in trust as donations restricted for use
21 of CCTF goals/objectives. A non-lapsing revenue and expenditure line item would be created in the
22 Land Conservation Department budget for the acceptance and use of donations. Use of donation funds
23 would be approved by the CCTF members.
24
- 25 FURTHER BE IT RESOLVED that if Monroe County discontinues the CCTF all remaining funds
26 would be available for use by the Land Conservation Department for conservation practices until
27 depleted and no additional funds would be accepted.
28

Offered this 25th day of March, 2020 by the Natural Resources & Extension Committee.

Fiscal note: This resolution will authorize the carrying forward of surplus funds from year to year into the Monroe County non-lapsing CCTF account. This resolution will require a majority vote of the entire membership of the Monroe County Board of Supervisors for approval. No levy dollars to be used.

Statement of purpose: This Resolution will authorize non-lapsing revenue and expenditure line item accounts in the Land Conservation Department budget to receive donations restricted to use as established by this resolution.

Donations

Tax-deductible donations can be made to KVA to support the purchase and implementation of flood monitoring devices. All proceeds will be repurposed back to MCCCTF to purchase equipment.

Kickapoo River Watershed

Adopt a weather station for \$10,000 or a sensor station for \$3,000 and receive naming rights. Check the donation level you'd like to include.

\$10,000 \$3,000 \$1,500

\$1,000 \$500 \$100

Don't see the donation level that you want included? Add a new donation level here:

Return form with check

Donations can be mailed to:

Kickapoo Valley Association
Attn: Scott Lind - Treasurer
P.O. Box 103
Ontario, WI 54651

Donate Now to help the Monroe County Climate Change Task Force implement flood warning systems.



The Kickapoo Valley Association (KVA) is partnered with the Monroe County Climate Change Task Force (MCCCTF) on data collection and spearheading fundraising efforts to buy weather stations and flood warning systems.

The fundraising goal is \$100,000.



Your donation will make a difference in saving lives and keeping people out the way of our yearly floods.

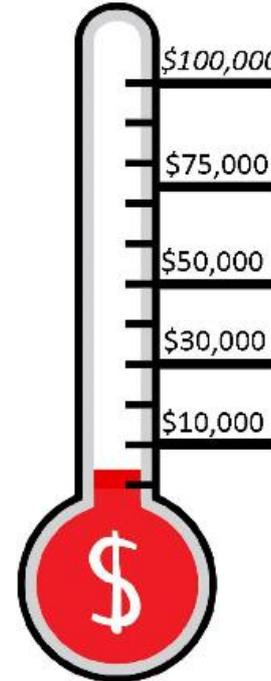
Kickapoo River Watershed

Monroe County Climate Change Task Force and Kickapoo Valley Association
Need your help!

Flood Resilience –
A Watershed Approach



Donation:



CCTF—Donations

Thank you:

Village of Wilton



Objective/Goal #1

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

Kickapoo River Watershed – Monitoring Station Planning

Site 1. Village of Norwalk – Railroad St. Crossing

Station Setup: Water Level Sensor

Site 2. Village of Wilton – St. Hwy 71

Station Setup: Water Level Sensor

Note: Establish rain gauge in Village of Wilton

Site 3. County Road Z

Station Setup: Water level sensor, rain gauge sensor

Site 4. County Road T Crossing

Station Setup: Water Level Sensor

Site 5. Village of Ontario

USGS Gage Station – data sharing

Site 6. St. Mary's Ridge

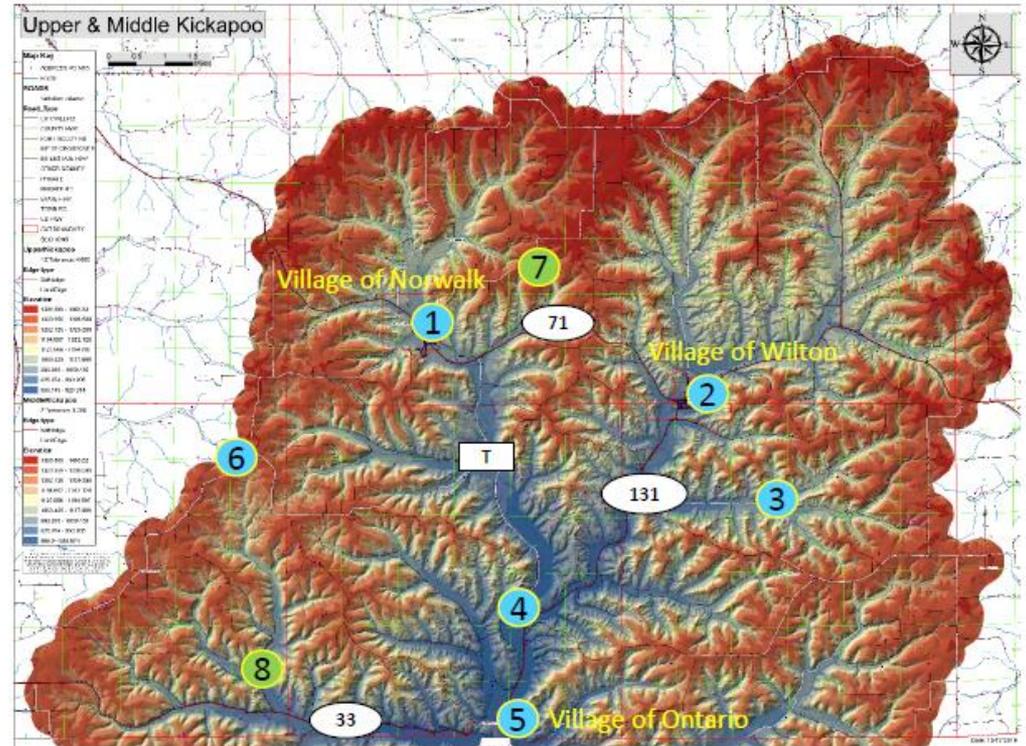
Station Setup: Rain Gauge Sensor

Site 7. County Road U – Helgren Farm

Weather Underground Registered Personal Weather Station

Site 8. Nevada Rd. – Firefly Ranch

Weather Underground Registered Personal Weather Station



All sites had good coverage on both Verizon and AT&T's FirstNet (first responders) Networks.