

**Energy & Environment Committee
Meeting Minutes**

DATE & TIME: December 6, 2018; 6:00
LOCATION: KL Binder Library, 6th Floor, COB, Kingston, NY
PRESIDING OFFICER: Chairman Mary Wawro
LEGISLATIVE STAFF: Fawn A. Tantillo, Deputy Clerk
PRESENT: Legislators Tracey Bartels, Manna Jo Greene, Joseph Maloney and Brian Woltman
ABSENT: None
QUORUM PRESENT: Yes

OTHER ATTENDEES: Legislator Kathy Nolan; Mark Longtoe, County Attorney; Jared Buono, Cornell Cooperative Extension; Kathy O'Connor, League of Women Voters; Cameron Williams; John Schoonmaker; Alysa Wishingrad

Chairman Wawro called the meeting to order at approximately 6:05 pm and lead the Pledge of Allegiance.

Motion No. 1: To discuss Resolution No. 471 - Amending Resolution No. 318 Dated September 15, 2015 To Conform To Agreement of Sale of County-Owned Real Property in the Town of Lloyd To The New York State Department Of Environmental Conservation And Authorizing The Chairman Of The Ulster County Legislature To Convey Such Parcel – Department Of Finance

Resolution Summary: This resolution makes an amendment to a previous resolution associated with the transfer of a Parcel located off North Chodikee Lake Road in the Town of Lloyd from the County of Ulster to the New York State Department of Environmental Conservation for the purchase price of \$178,5000.

Motion By: Legislator Bartels
Motion Seconded By: Legislator Woltman

Discussion: Mr. Longtoe explained that a Resolution No. 318 of 2015 authorized the Chairman at the time to sign a contract to sell this property to the New York State Department of Environmental Protection via a Quit Claim Deed. The NYSDEC requires a Bargain Sale Deed. This resolution is simply changing the type of deed to facilitate the transfer. He briefly explained the difference in those deeds.

Legislator Bartels told the committee how the property had almost been sold to a developer and that she wanted to ensure it remained open space. She asked if there was any way to include a deed restrictions that would prevent NYSDEC from selling the property to a developer in the future and/or give the county first refusal if the NYSDEC wanted to sell it.

Legislator Nolan explained that the NYSDEC could not sell open space for gain. When NYSDEC acquires land, it becomes part of a unit management plan and would require a state-wide referendum to sell it.

Legislator Joseph Maloney wanted to meet with the residents of Chodkee Lake Road to discuss their concerns. He also wanted to meet with the NYSDEC to discuss their plans for this property. He noted this action was not time sensitive.

Motion No. 2: Motion to postpone Resolution No. 471.

Motion By: Legislator Greene

Seconded By: Legislator Joseph Maloney

Discussion: None

Voting in Favor: Legislators Wawro, Bartels, Greene, Joseph Maloney and Woltman

Voting Against: None

No. of Votes in Favor: 5

No. of Votes Against: 0

Disposition: Resolution Postponed

Motion No. 3 - To move into executive session for the purpose of conducting interviews for the Recycling Oversight Committee (6:25)

Motion Made By: Legislator Joseph Maloney

Motion Seconded By: Legislator Greene

Voting in Favor: Legislators Wawro, Bartels, Greene, Maloney and Woltman

Voting Against: None

No. of Votes in Favor: 5

No. of Votes Against: 0

Disposition: Approved

Cameron Williams, John Schoonmaker and Alysa Wishingrad were interviewed individually.

Motion No. 4 – To move out of executive session. (7:15)

Motion Made By: Legislator Greene

Motion Seconded By: Legislator Woltman

Voting in Favor: Legislators Wawro, Bartels, Greene, Maloney and Woltman

Voting Against: None

No. of Votes in Favor: 5

No. of Votes Against: 0

Disposition: Approved

Motion No. 5: To Approve the Minutes November 8, 2018

Motion Made By: Legislator Bartels

Motion Seconded By: Legislator Joseph Maloney

Discussion: None

Voting in Favor: Legislators Wawro, Bartels, Greene, Joseph Maloney and Woltman

Voting Against: None

No. of Votes in Favor: 5

No. of Votes Against: 0

Disposition: Approved

Motion No. 6: to discuss Resolution No. 400 - Adopting Proposed Local Law No. 20 Of 2018, A Local Law Requiring Restaurants And Fast Food Service Establishments Provide Plastic Beverage Straws Solely Upon Request

Resolution Summary: This resolution would approve and adopt proposed local law No. 20 of 2018 establishing a requirement that local restaurants and food establishments ask patrons if they want a straw before providing one.

Motion By: Legislator Maloney

Motion Seconded By: Legislator Greene

Discussion: Chairman Wawro introduced a draft of a letter she proposed sending to businesses seeking their partnership and advice in addressing ways to eliminate plastic straws, utensils and takeout containers and other steps they may be taking to be more environmentally responsible. She felt that rather than more legislation this approach might be positive way to reward businesses that are already eliminating plastics and encourage other businesses to make environmentally responsible changes.

Legislator Bartels liked the idea as a way to recognize businesses and ask them to do more but expressed concern that a letter alone would not achieve the level of compliance that could be attained by legislation. She recognized Chairman Wawro's concerns about the timing of this local law so close to the passing of the BYO Bag law.

Chairman Wawro outlined several steps to reach businesses that included distributing the letter through local chambers of commerce and making one on one contact with businesses.

Legislator Joseph Maloney supported reaching out to businesses but not as a replacement to this legislation.

Legislator Greene suggested some edits to the letter that included tying it to climate solutions, recognizing businesses as "green business leaders" and citing examples of businesses that have successfully eliminated plastic straws, utensils and take out like the Mountain Brauhaus, Love Bites and the Roost.

The committee discussed other way to approach businesses.

Legislator Bartels reported dramatic changes in the European Union to eliminate all single use plastics as well as reduce and eliminate fossil fuel vehicles. She discussed some proposed changes to this local law and asked to postpone this resolution for one more month so she can complete some amendments.

Motion No. 7: Motion to postpone Resolution No. 400.

Motion By: Legislator Greene

Seconded By: Legislator Joseph Maloney

Discussion: None

Voting in Favor: Legislators Wawro, Bartels, Greene, Joseph Maloney and Woltman

Voting Against: None

No. of Votes in Favor: 5

No. of Votes Against: 0

Disposition: Resolution Postponed

Motion No. 8 Resolution No. 485 - Confirming Re-Appointment Of Member To The Fish And Wildlife Board

Resolution Summary: This resolution would re-appoint Albert William Wilklow of Highland, NY to the NYS Fish and Wildlife Management Board (NYSF&W)

Motion By: Legislator Bartels
Motion Seconded By: Legislator Joseph Maloney

Discussion: Legislator Bartels told the committee she serves with Mr. Wilklow on the Ulster County Soil and Water (UCS&W) Committee and praised his dedication to the work of both UCS&W and NYSF&W.

Voting in Favor: Legislators Wawro, Bartels, Greene, Joseph Maloney and Woltman
Voting Against: None
No. of Votes in Favor: 5
No. of Votes Against: 0
Disposition: Approved

Motion No. 9: Resolution No. 522 - Setting A Public Hearing On Proposed Local Law No. 24 Of 2018, A Local Law Amending Local Law No. 5 of 2018, A Local Law Promoting The Use Of Reusable Bags And Regulating The Use Of Plastic Carryout Bags And Recyclable Paper Carryout Bags, To Be Held On Monday, January 7, 2019 At 6:30 PM

Resolution Summary – This resolution will amend the BYO Bag Law.

Motion By: Legislator Bartels
Motion Seconded By: Legislator Greene

Discussion: Legislator Bartels discussed some changes being proposed to the recently approve BYO Bag Law – Local Law 5 of 2018. They include changing the implementation date of the local law and an exemption from the five-cent fee for individuals on the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC) and the Supplemental Nutrition Assistance Program (SNAP). She pointed out that the Ulster County BYO Bag law was the only one that did not include an exemption for WIC and SNAP recipients.

The committee discussed various aspects of this change.

Voting in Favor: Legislators Wawro, Bartels, Greene, Joseph Maloney and Woltman
Voting Against: None
No. of Votes in Favor: 5
No. of Votes Against: 0
Disposition: Approved

New Business:

Cornell Cooperative Extension

Mr. Buono from Cornell Cooperative Extension (CCE) distributed a Legislative Brief and discussed CCE role in watershed resource management in Ulster County. CCE is working with Ulster County Department of the Environment, Ulster County Soil and Water, NYSDEP, USGS and several local watershed groups to develop a watershed alliance that may one day grow into a Center for Watershed Protection.

The committee discussed many aspects of this work and asked Mr. Buono, who officially reports to the Legislative Programs, Education and Community Services Committee to come back to this committee with reports on the progress with the watershed resource management program and other environmental projects CCE is working on.

Memorializing Resolutions

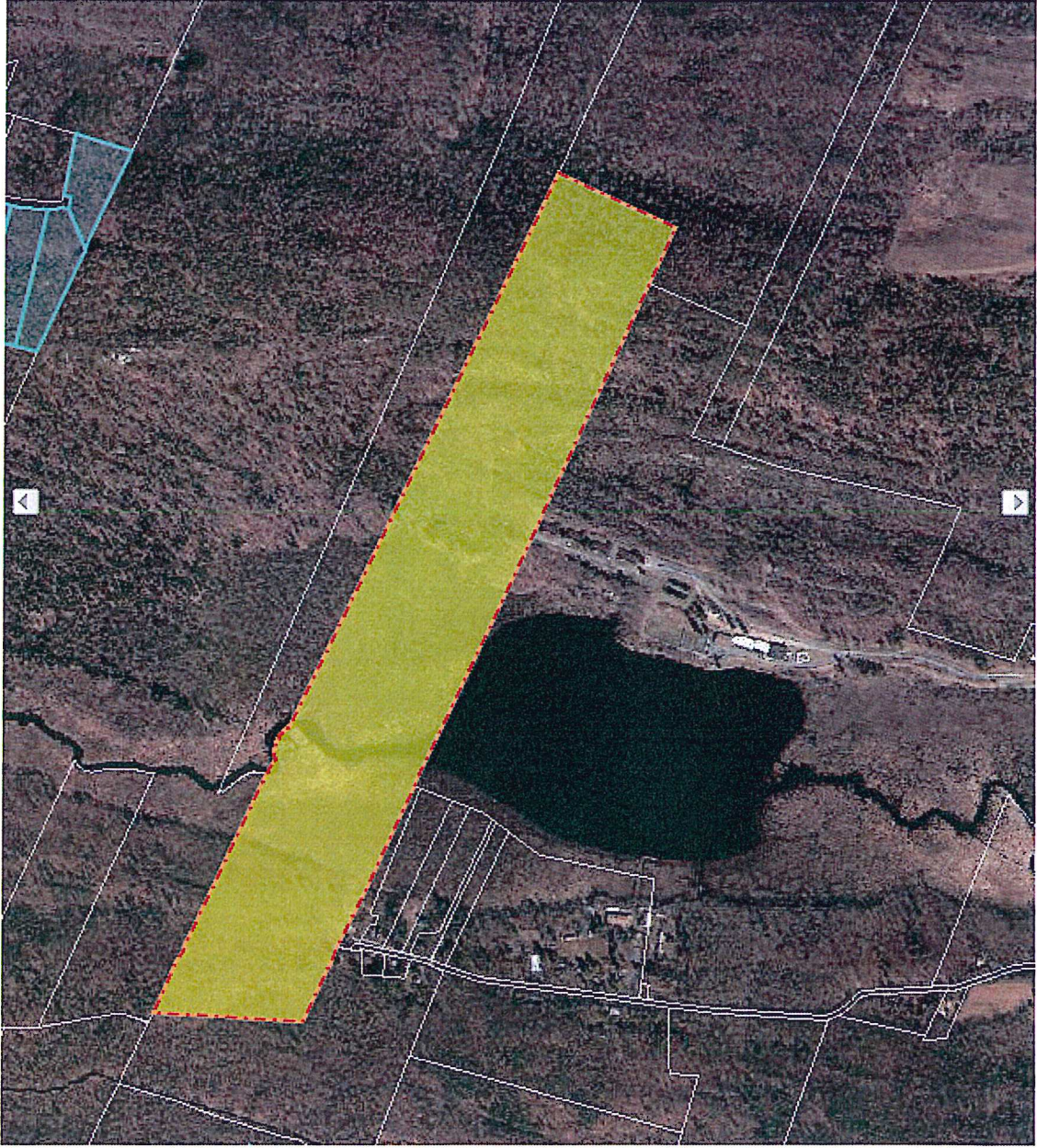
Legislator Joseph Maloney reminded the committee that the Legislature approved memorializing resolutions and asked if anyone had any in mind. Since he was a kid he thought the deposit on bottles should be more than five cents. He suggested the NYS bottle deposit be increased to ten or twenty-five cents.

Chairman Wawro asked if there was any other business, hearing none

Motion to Adjourn

Motion Made By:	Legislator Woltman
Motion Seconded By:	Legislator Greene
No. of Votes in Favor:	5
No. of Votes Against:	0
Time:	8:45 pm
Respectfully submitted:	Fawn Tantillo, Deputy Clerk
Minutes Approved	February 7, 2019

79.2-2-1







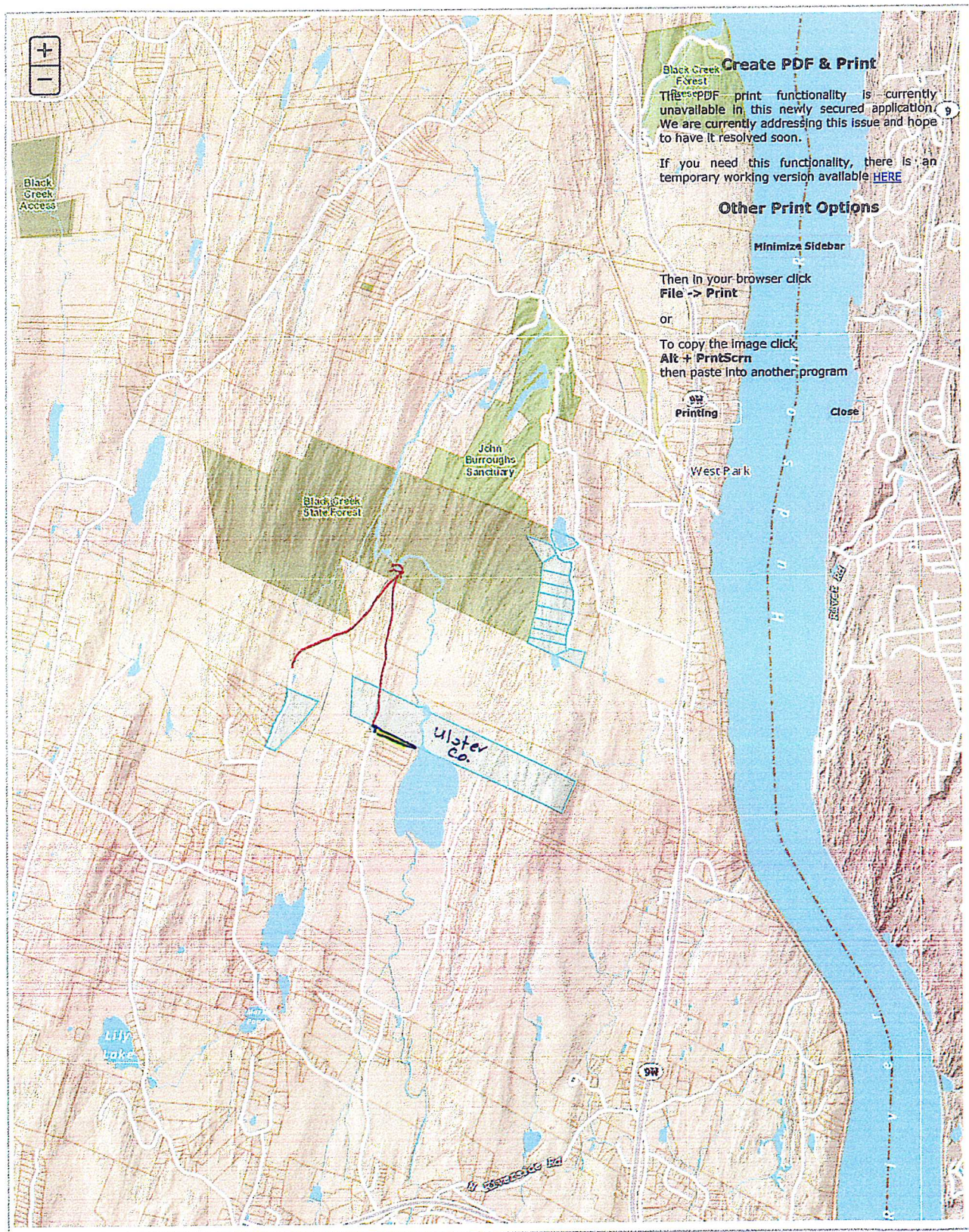


North Chodikee Lake Road

Ulster County Parcel

SBL 79.2-2-1

123.8 Acres



Create PDF & Print

The PDF print functionality is currently unavailable in this newly secured application. We are currently addressing this issue and hope to have it resolved soon.

If you need this functionality, there is a temporary working version available [HERE](#)

Other Print Options

Minimize Sidebar

Then in your browser click
File -> Print

or

To copy the image click
Alt + PrintScrn
then paste into another program

Printing

Close

West Park

Ulster Co.

79.2-2-2.300

N Chodikee Lake Rd

79.2-2-2.110

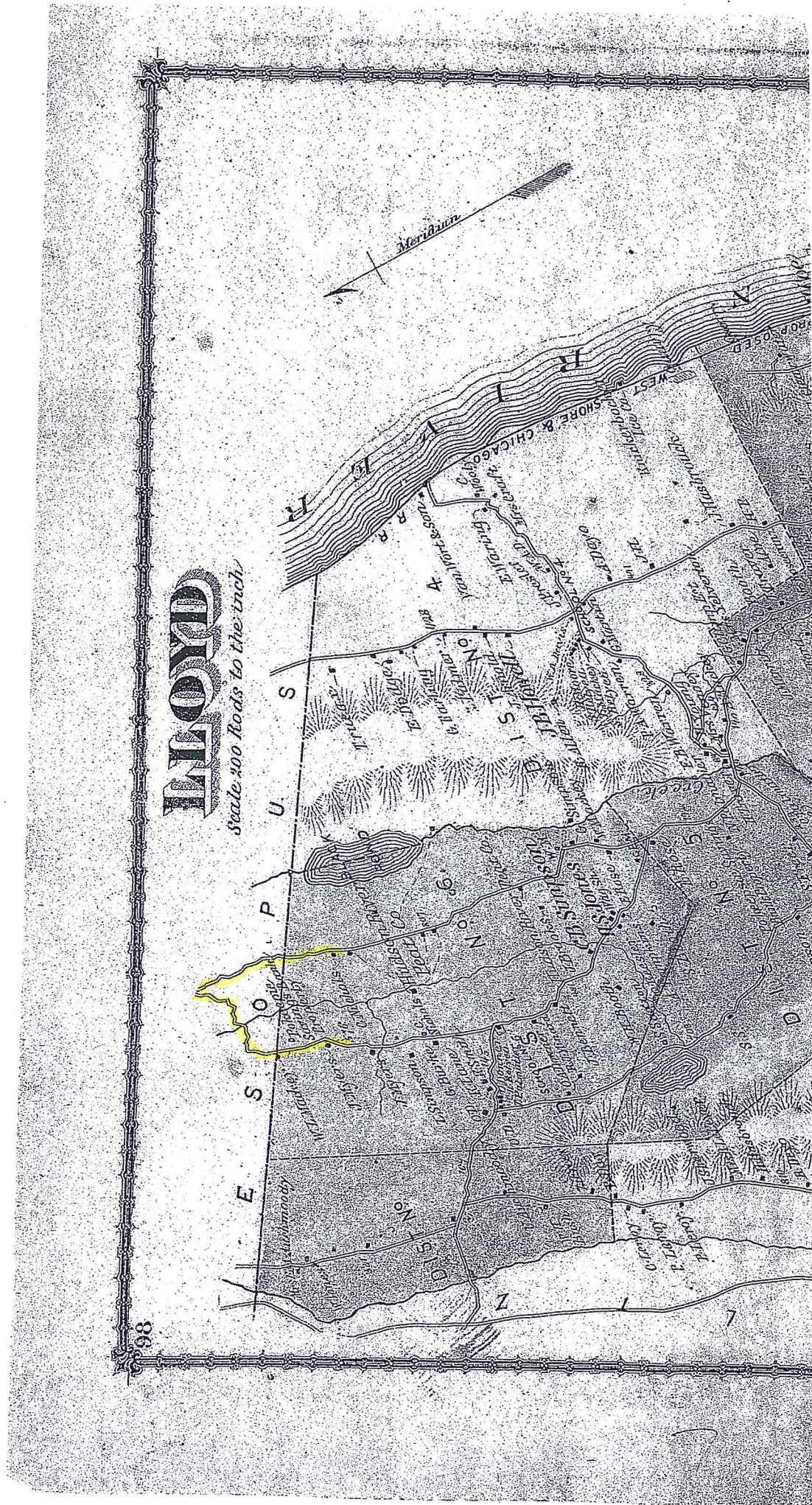
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79.2-2-2.122

79.2-2-4.100

79.2-2-2.200

1875 Ulster County Atlas



U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

TOPOGRAPHIC SHEET

NEW YORK
RHINEBECK QUADRANGLE

CONVENTIONAL SIGNS

- CULTURE**
(printed in black)
- Buildings and buildings
 - Private and secondary roads
 - Rails
 - Highways
 - Street railroads
 - Tunnels
 - Ditches
 - Fences
 - Boards
 - Dams
 - Locks
 - U.S. boundary and section lines
 - Locusts
 - Locusts and section lines
 - Terraces and section lines
 - Triangulation stations
 - Rock masses
 - Mines and prospects
 - Prospects
 - Shells
 - Mine tunnels
 - Mine tunnels

CONVENTIONAL SIGNS

- RELIEF**
(printed in brown)
- Peaks
 - Contours
 - Depressions
 - Loops
 - Cliffs
 - Mine shafts
- DRAINAGE**
(printed in blue)
- Streams
 - Falls and rapids
 - Intermittent streams
 - Creeks and ditches
 - Lakes and ponds
 - Intermittent lakes
 - Glaciers
 - Springs
 - Salt marshes
 - Fresh marshes
 - Wet flats

U.S.G.S.
FILE COPY
Ed. Div. Topographic Maps

U.S.G.S.
Historic
Topographic Division



U.S.G.S.
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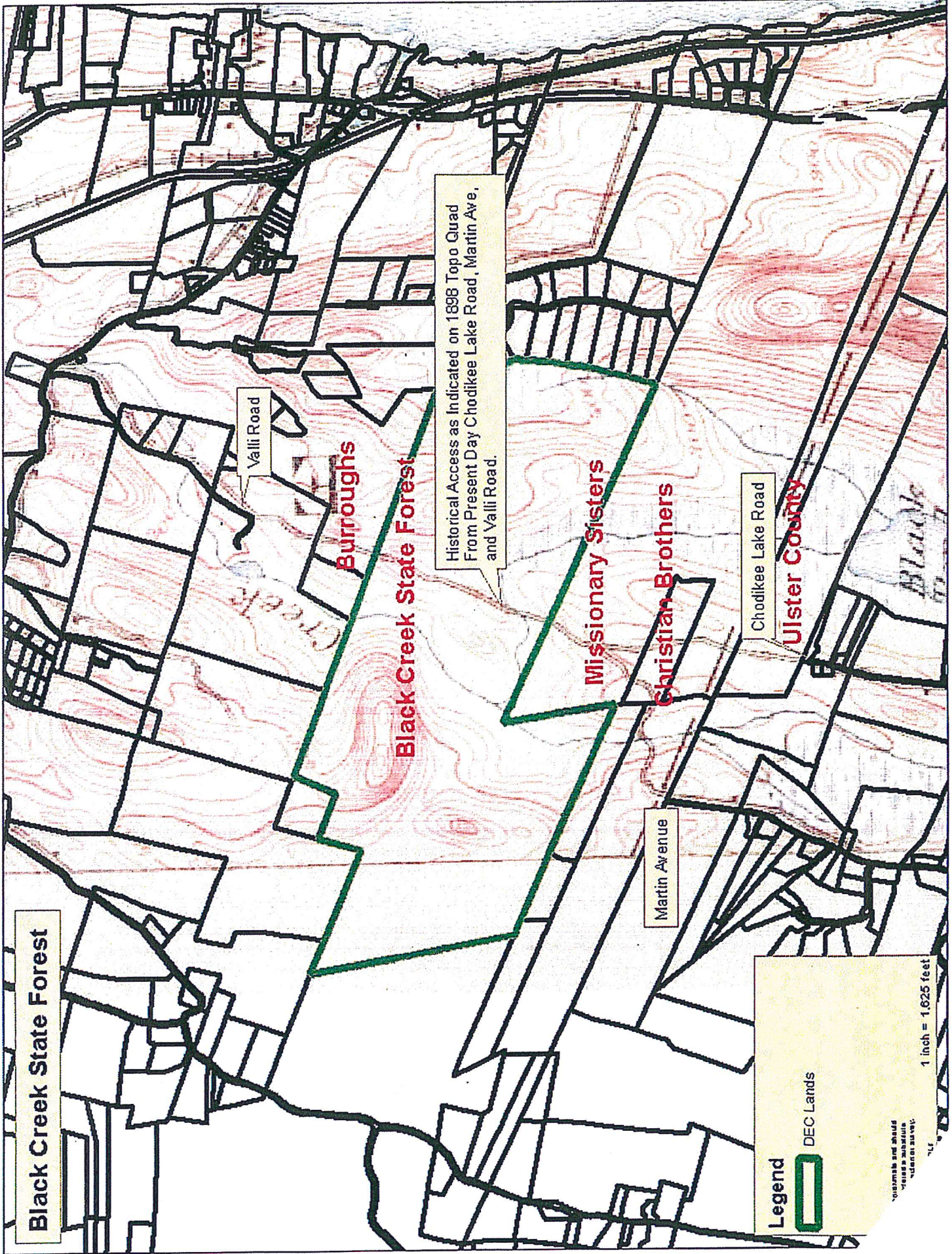
Surveyed by Charles D. Walcott, Director
Topographic Division
Surveyed by W. M. Smith and J. M. Smith
Copyright 1898 by the U.S. Geological Survey



Scale in miles
Scale in feet
Contour interval 20 feet
Distance in miles and feet

Oct. 18-1898
2068

Rhinebeck



Black Creek State Forest

Valli Road

Burroughs

Black Creek State Forest

Historical Access as Indicated on 1898 Topo Quad
From Present Day Chodikee Lake Road, Martin Ave,
and Valli Road.

Missionary Sisters

Martin Avenue

Christian Brothers

Chodikee Lake Road

Ulster County

Legend

 DEC Lands

1 inch = 1,625 feet

ULSTER COUNTY LEGISLATURE

KENNETH J. RONK, JR.
Chair

JAMES F. MALONEY
Vice Chair

MARY BETH MAIO
Majority Leader

HECTOR S. RODRIGUEZ
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Clerk

NICHOLAS A. PASCALE
Counsel

KYLE BARNETT
Counsel

CHRISTOPHER RAGUCCI
Minority Counsel

December 3, 2018

Dear business owner,

DRAFT

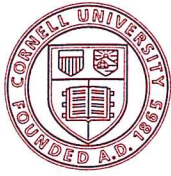
The Ulster County Legislature recognizes we are in crisis with recycling and environmental damaging products. We started with the food service Styrofoam ban and realize that the transition was easier for some than others. Together we have made a tremendous difference. That being said, there is much more we need to do.

This letter is reaching out to you asking for a partnership to do even better. Each business is unique and as such will be able to include changes that collectively will make a huge impact. You may have already made changes that we would like to recognize. We believe working together we can make a bigger impact that legislating these changes.

Mary Wawro
Chairman of Energy & Environment

DRAFT

DRAFT



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Ulster County**

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**Legislative Brief: Cornell Cooperative Extension seeks to provide more support in
Ulster County on watershed resources management**
December 6, 2018 | Energy and Environment Committee

The Issue:

- Water is integral to Ulster County's economy, culture, health and brand.
- It is under threat from climate change, algal blooms and aquatic invasive species.
- Municipalities, local organizations and citizen-led groups have organized to better steward our water resources.

CCEUC's Skills:

- CCEUC has one of the best water teams in the state - AWSMP stream management, flood mitigation, resilience, outreach & education; 6 staff
- Provide evidenced-based practices to capital improvements and outreach and education: trained 150 municipal officials, programs for 450 students
- Sea Grant sits in our office; close relationship with WRI, HREP

Vision:

- Provide support to stakeholders: technical, facilitation, hosting, coordination
- Increase outreach and education beyond Ashokan watershed
- Support UCDOE re-establishment of Water Quality Coordination Committee
 - Forum for water partners, community groups to collaborate
 - Examine resources, opportunities and strengths
 - Foster consistent, unified approach to stream management efforts
- Model a lighter-leaner version of AWSMP
- Make Ulster County silver certified in water management?

StreamGuide

Flood Emergency Preparedness Guide

Why Prepare for a Flood?

Knowing what to do quickly during floods and other natural disasters and having a plan and supplies ready can make the difference between safety and life-threatening situations. Having a plan can make you feel safer and more confident during an event such as a natural disaster. For example, having a common plan to find family members during a flood can be very reassuring.

Natural disasters disrupt hundreds of thousands of lives every year, with long term effects on both people and property. Floods are the nation's most common natural disaster and result in more deaths than any other natural disaster.

Flood hazards can impact you no matter where you live, but be especially aware if you live in a low-lying area, near water or downstream from a dam. Even very small



Flooding in Mount Tremper following Tropical Storm Irene (August 2011).

creeks, gullies, culverts, dry streambeds, or low-lying ground that appears harmless in dry weather can flood.

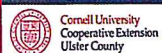
sponders may not be able to reach you right away, or they may need to prioritize other emergencies.

If a disaster occurs in your community, local government and disaster-relief organizations will try to help you, but you need to be prepared to act. Local re-

You should be ready to be self-sufficient for at least three days. This may mean providing your own shelter, first aid, food, water, and sanitation. 💧



ASHOKAN WATERSHED
STREAM MANAGEMENT
PROGRAM



Flood Emergency Preparedness Guide:

- 💧 Why Prepare for a Flood?
- 💧 Difference Between a Flood and Flash Flood
- 💧 Turn Around—Don't Drown!
- 💧 How Do I Prepare My Family for a Flood?
- 💧 What Is The 100-Year Flood?
- 💧 How Do I Prevent Flood Damage to My Property?
- 💧 When Flooding Occurs
- 💧 Returning Home After a Flood
- 💧 Additional Resources

This StreamGuide was produced by Cornell Cooperative Extension of Ulster County in collaboration with Ulster County Soil & Water Conservation District.

What's the Difference Between a Flood and a Flash Flood?

Flood: When waterways such as rivers or streams overflow their banks as a result of rainwater or a rain-on-snow melt event. They usually develop slowly which allows time for preparation and evacuation. Floods are one of the most common hazards in the United States.

Flash Flood: Characterized by a rapid stream rise with depths of water that can reach well above the streambanks. They often develop quickly with little prior warning and are common in mountainous settings (like many areas in the Ashokan Watershed). Flash floods are the #1 weather-related killer in the United States.

Flood Watch or Flash Flood Watch: Indicates flooding or flash flooding is possible within the designated watch area. When a watch is issued, be alert and ready to take action.

Flood Warning or Flash Flood Warning: Flooding or flash flooding has been reported or is imminent. You should take necessary precautions (such as moving to higher ground) at once.

Cornell Cooperative Extension provides equal employment and program opportunities

Turn Around—Don't Drown!

The Centers for Disease Control report that over half of flood-related drownings occur when a vehicle is driven into hazardous flood waters followed by walking into or near floodwaters. Most people do not know the awesome power of water. Only six inches of moving water can knock over a standing adult. It only takes two feet of moving water to carry away most vehicles including sport utility vehicles (SUV's) and pickup trucks. To stay safe remember to follow these important rules:

- Avoid areas already flooded, especially if the water is flowing fast. Do not attempt to cross flowing streams.
- Road beds may be washed out under flood waters. NEVER drive through flooded roadways.
- Be especially cautious at night when it is harder to recognize flood dangers.
- Obey all signs. If it says the road is closed ahead, do not attempt to cross the barrier.
- Watch for washed-out roads, mud-slides, broken water or sewer mains, downed electrical wires and fallen objects.
- If you are in your car and the water begins to rapidly rise around you, abandon your vehicle immediately and seek higher ground.

How Do I Prepare My Family for a Flood?

- There are a variety of things you can do to prepare yourself and your family in the event of a flood.
- Learn the safest route from your home or business to high, safe ground should you have to leave in a hurry.
- Develop and practice a "family escape" plan and identify a meeting place if



Vehicles moved by floodwaters along Route 28 near Mount Tremper during Tropical Storm Irene.

family members become separated.

- Have a portable radio, flashlights, extra batteries and emergency cooking equipment.
- Keep your automobile fueled as you may not be able to reach a gas station for a number of days. Also consider keeping emergency supplies in the trunk of your vehicle.
- Determine how many feet your property is above or below flood levels.
- Keep materials like sandbags, plywood, plastic sheeting, and lumber handy for emergency water proofing.
- Plan what you will do with your pets during an emergency. Not all shelters allow animals.
- Stockpile emergency supplies of canned food, medicine, first aid supplies, and drinking water. Store drinking water in clean, closed containers.
- For more information on building a disaster preparedness kit please visit the FEMA website at www.ready.gov/build-a-kit

What is the 100-Year Flood?

When discussing floods you will probably hear the term "100-year flood." Often people mistakenly think this means a 100-year flood will only occur once every 100 years. This is not the case.

The 100-year flood refers to the chance that a specific flood might occur once every century. That is, there is a 1 in 100 (or 1%) chance that the flood could occur in any given year. Since this is about probability, these floods can occur more frequently than once every 100 years (and seemingly often do). The statistical flood is based on stream gage flood records for an area. As the record grows the statistics change. What was an assumed 100-year flood for the Esopus Creek 20 years ago has changed given the flood record of the last 20 years. In fact, our "100-year floods" are getting bigger—something we need to account for in our preparedness! A better term to use (and the one used by floodplain managers) is "1% annual chance flood."

How Do I Prevent Flood Damage to My Property?

It would be wise to check and see if your property is located within the 100-year floodplain. You can find this information by contacting your Town Building Inspector or Code Enforcement Officer, your mortgage holder, or FEMA. If you find that you are in the 100-year floodplain you should seriously consider purchasing flood insurance. For more information on the National Flood Insurance Program (NFIP) please visit their website at: www.fema.gov/business/nfip/. You should also consider:

Making a list of all valuables including furnishings, clothing, and other personal property. Keep the list in a safe place.

Avoid building in a floodplain unless you elevate or reinforce your home.

Elevating the furnace, water heater, electrical panel, and other utilities in your home if you live in an area that has a high flood risk.

Installing "check valves" to prevent flood water from backing up drains in your home.

Sealing walls in basements with waterproofing compounds to avoid seepage.

Installing stormwater management systems around your buildings and keeping the ground sloped away from your home.

Securing propane tanks and other objects that can be carried away by flood waters.

Not mowing to the stream. Maintain a wide buffer of trees and shrubs to slow water and prevent erosion.

When Flooding Occurs

If a flood is likely in your area, you should:

Monitor the National Oceanic & Atmospheric Administration's (NOAA) Weather Radio or your local radio or television station for information.

Be aware that flash flooding can occur. If you know or suspect that your area is susceptible to flash flooding do not wait for an evacuation order. Move to higher ground immediately.

NY-Alert

Consider signing up for NY-Alert.

By signing up for NY-Alert, you can receive warnings and emergency information via the web, your cell phone, email and other technologies. Signing up for NY-Alert is free. Your information is protected and never shared with any one else. You can modify what type of information you receive or unsubscribe at any time. NY-Alert is a tool to provide you with critical information when you may need it the most.

Information sent by NY-Alert includes severe weather warnings, significant highway closures, hazardous materials spills, and many other emergency conditions. Additionally you will find information regarding response actions being taken by local and state agencies and protective actions that you should take to protect you, your family and your property.

To sign up for NY-Alert please visit their website at <https://users.nyalert.gov/>



The Bridge Street bridge in Phoenicia being overtopped by floodwaters as a result of Tropical Storm Irene.

- If you have the time, secure your home by bringing in outdoor furniture and move essentials and valuables to the upper floors.
- Turn off utilities at the main switches or valves if instructed to do so. Disconnect all electrical appliances. Do not touch electrical equipment if you are wet or in standing water.
- Drain your plumbing if it is likely that the temperature in your house will drop below freezing. Shut off the water service valve. Then turn on the highest and lowest hot and cold water taps in the house to drain your system. Flush toilets and remove water from the lower bowl to prevent freezing damage. Leave all taps open until you return.
- Be sure to lock all doors and windows before you leave.

Flood Emergency Preparedness Guide

Additional Resources

A number of publications can be found on the FEMA online library that are useful in preparing for and recovering from a flood. They include:

"After a Flood: The First Steps" [L-235]

"Homeowner's Guide to Retrofitting: Six Ways to Protect Your House from Flooding" [FEMA-312]

"About the Flood: Elevating Your Floodprone House" [FEMA-347]

"Protecting Building Utilities From Flood Damage" [FEMA-348]

All these and more can be found at the FEMA library online at:

www.fema.gov/library/index

or at

www.ready.gov/floods

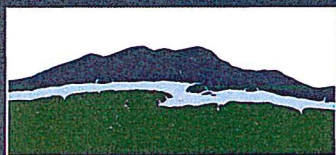
Returning Home After a Flood

Even after the high waters subside, there can still be dangers that you have to look out for. Do not attempt to return to your home until authorities say that it is safe to. Even when it has been deemed safe use caution when traveling the roadways since they may be damaged or have downed power lines across them.

Remember Safety First! If you have any doubts about the structural integrity of your home have a qualified building inspector or structural engineer inspect it first.

Upon Entering Your Home and During Clean-Up

- Check to see if there are any gas leaks. If there are, leave and contact the gas company for further assistance.
- Do not turn on any electrical appliance until a licensed electrician has checked your electrical system.
- Be sure to wear rubber boots, gloves, safety glasses and other protective gear when inspecting or cleaning up your home.
- Throw out any food or medicine that has come into contact with flood waters.
- Test your water for potability. Boil for 10 minutes if you are unsure if it is contaminated.
- Take precautions to prevent mold growth which can cause disease and allergies. Remove all standing water and wet materials (such as carpets) and ventilate with fans and dehumidifiers. If mold has already begun to grow, consult a professional. Avoid mixing household cleaners as some combinations can produce toxic fumes.
- Stay physically healthy by getting plenty of rest and eating well. Do not be afraid to ask for help with any emotional stresses that may develop. Organizations such as the Red Cross or similar group can give you more information about mental health services in your area. 💧



ASHOKAN WATERSHED STREAM MANAGEMENT PROGRAM



Cornell University
Cooperative Extension
Ulster County



SOIL & WATER
Conservation District



6375 Route 28, Phoenicia, NY
12464

Phone: 845-688-3047

Fax: 845-688-3130

www.ashokanstreams.org

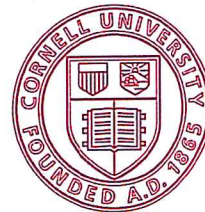
Originally Published March 2010

Updated August 2012

Ulster Current

Cornell Cooperative Extension of Ulster County

PUT KNOWLEDGE TO WORK.



LEARNING LIVESTOCK

This is the time of year when this meme frequently flickers across my desktop. To be fair, I added the text to the picture but you get the idea. There are certainly some vital husbandry practices that need to be dealt with in the cold weather but it is a fallacy to believe that if we are cold then they are cold too. Not to be a broken record but this sentiment goes back to our collective lack of agricultural awareness. Show of hands if you have more than two friends on Facebook who have been within 20 feet of a cow in the last year. Get the idea?



NEW PROGRAMMING! CLIMATE CHANGE

Climate affects us all. In Ulster County we can expect higher temperatures, more intense rain and snow storms, and increased flood risk. This has implications for farming, food systems, public health, infrastructure, tourism - in other words, just about everything.

Here at Cornell Cooperative Extension we are working hard to bring you the latest research and recommendations from Cornell University and other leading institutions. From technical resources, to classes and advice, we have what you need to understand and prepare for an uncertain future.

(Continued on back cover...)

There is no doubt that the cold weather can be taxing on cattle but did you know that hot weather is far more detrimental to them than the cold? Humans are poorly equipped for cold weather and cannot survive without donning insulating clothing and footwear in our local temperature range. With the cold weather we experience in the northeast, where the temps do not get above freezing, you can be sure that an exposed human could not survive one night unprotected. But does that imply that our livestock are vulnerable under the same conditions?

What follows are some facts about cattle and cold weather written by our own Dr. Lyle Goodnow of Gardner Animal Hospital with additional information provided by CCE Ulster. I hope that you will share these on social media and provide others with a better understanding of cattle physiology and how they are uniquely adapted to grow and thrive in our local weather conditions.

1. Cattle have very thick skin. In some areas it is as thick as a ½ inch and this keeps the cattle well insulated (the thickest human skin is on the soles of our feet is 4mm or .16 inches thick).
2. Cattle have piloerector muscles in the skin that causes their hair to stand upright in cold weather and trap warm air. Humans still possess the musculature but have lost most of the hair that would keep us warm in cold climates. You can see this reaction if you get goose bumps from

Letter from the Executive Director:



The 4-H clover is one of the most recognized brands on the planet and the 4-H program remains the nation's largest youth development organization, as well as one of its oldest. But it is a difficult program to fund, perhaps because it is so well known that we take its existence for granted.

Our 4-H program is largely supported by an appropriation from Ulster County and supplemented with grants and donations.

Next year, we plan to expand the number of 4-H clubs and activities to provide opportunities to even more youth - and we would like your help.

Has 4-H made an impact on your life? Or one of your children's? Did it help make you a stronger public speaker? Or more confident because you raised your own animal? If so, consider donating to Cornell Cooperative Extension during this giving season.

Our Year-End Campaign seeks to raise \$10,000 for increased youth development activities in Civic Engagement, Agriculture, STEM, and Healthy Living and similar programming in 2019.

This year, the Campaign focuses on stories of impact, especially those of our 4-H youth. In this issue and through the end of 2018 we will highlight the story of Elizabeth, a 16-year-old, seven-year veteran of 4-H who attributes her career aspirations to what she learned in the program.

Her story inspires me to expand the opportunity of 4-H. Please join me in ensuring that others like Elizabeth continue to build strong and vibrant communities across Ulster County.

Sincerely,

Jared Buono, PhD
Executive Director

(*Learning Livestock Continued...*) watching scary movies or hearing finger nails on a chalkboard.

3. Cattle digest their food in a rumen that produces a significant amount of heat. Think of this as a giant internal heater that takes up about 1/3 of a cow's body. In the winter this helps to warm the animal from the inside but in the summer this can be a real detriment as this heat must be dissipated.

4. Cattle legs, which carry little muscle compared to our lower extremities, have evolved to divert warm blood in a way that keeps the legs from freezing and getting frost bite. A human can suffer frostbite in less than 30 minutes at 0 degrees F and a 10mph wind.

5. It is detrimental to cattle to be indoors for the winter months. One of the most common ailments of animals in the winter is respiratory infections. These bugs breed in warm, moist environments just like the ones that are produced by a group of cattle loafing in a winter barn. It is recommended for cattle health that farmers provide the cattle with a solid wind break so they can get out of the wind if they need to. Wet weather and wind is the fastest killer of land based animals and the reason that we saw cattle die in the extreme storms of North Dakota that occurred a couple of years ago. Cattle can stand very cold temperatures, wind chill, and rain but not the combination of the two. Windbreaks allow cattle to get out of the wind, conserve heat, and stay healthy.

6. I often find it helpful to use the analogy of our thriving Hudson Valley deer population. Deer are also ruminants facing identical weather conditions our cattle face except for one thing: no one is providing them with nutrient dense feed. In fact, deer are in competition for feed during the winter months and yet most of them still manage to thrive and raise a fawn or two during these cold months.

So, do the farmers in the area a favor and share this information. In the immortal words of Flava Flav...don't believe the hype!

Learning Livestock is written by CCEUC Livestock Educator, Jason Detzel. You may contact him by email at jbd222@cornell.edu or by phone at (845) 340 - 3990 ext. 327.

**"I OFTEN FIND IT
HELPFUL TO USE THE
ANALOGY OF OUR
THRIVING HUDSON
VALLEY DEER
POPULATION."**

"4-H WAS A GAME CHANGER FOR ME"

Elizabeth, New Paltz
Aged 16, 7 years in 4-H



History

**7 YEARS IN
4-H**

Experience

**PUBLIC
SPEAKING**

Memory

**2018 MASTER
SHOWMAN
TITLE**

Elizabeth Medrano, 17 years old of New Paltz was awarded the 2018 4-H Master Showmanship title at this year's Ulster County Fair. She says "4-H was a game changer for me." Elizabeth's mother also received this award and this is the first known parent-child pair to share this honor. 4-H Master Showmanship recognizes excellence in showing animals and encourages youth to learn to show a variety of animals. This was her 3rd time competing in the Master Showmanship competition and she spent lots of time practicing and working with animals.

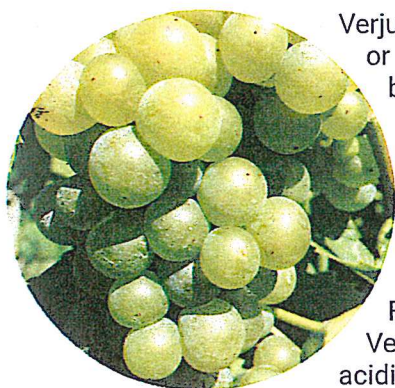
Elizabeth is finishing her 7th year in 4-H and has had a distinguished 4-H career. She is a talented public speaker who has participated and qualified in our 4-H Public Speaking Program for District-level competitions; this year she qualified for the State level. For the last two years she has served as the Poultry Barn Youth Assistant Barn Coordinator and this year she served as a 4-H Youth Ambassador, leading elected officials at the county, state and national levels through 4-H exhibits in the Youth Building and the Barns.

Elizabeth is a senior at New Paltz High School and is in the process of applying to several colleges/universities to study Animal Sciences. She is quoted as saying, "I feel honored to receive this award. I couldn't do it without the help of my family, especially my mom." Some of her other hobbies include taking care of her animals and drawing. She belongs to both the 4-H Teen Council and Ulster County MuttMasters, and was a member of Animals Around the World, the now defunct Feathered Friends. Other 4-H projects include arts and crafts, community service and numerous animal species.

For more information on CCEUC's 4-H Program contact 4-H Program Leader, Melanie Forstrom, at maf357@cornell.edu or (845) 340-3990 ext. 341 or come to the 4-H Open House on Saturday, November 3 from 3 to 5 p.m. at our Kingston office.

VERJUICE IN THE HUDSON VALLEY:

A VALUE-ADDED PRODUCT FOR GRAPE GROWERS



Verjuice, also called "Verjus," or "Ghoreh," is the sour (and bitter) juice made from grapes that are harvested while still green and unripe. The juice is used in many culinary creations and is common in Persia, France and Australia.

Verjuice can be used to add acidity in everything from baking to vinaigrettes.

The Hudson Valley is abundant in wine producers and yet the commercial production of verjuice is scarce. Ali Yaghoubi, a grape grower in Stormville, has two acres of table grapes in production and believes table grapes make the best quality verjuice. In Ali's home of Persia, verjuice is a popular commodity and he is now looking at verjuice as a potential successful business venture. In Spring of 2018, Ali obtained funding through a Northeast SARE Farmer Grant proposal and with that, approached

Cornell Cooperative Extension of Ulster County's (CCEUC) Agriculture Sr. Resource Educator, Jim O'Connell, to be his technical advisor.

Harvest for the verjuice began on July 28, 2018. Berries were removed from the vines, run through a destemmer/crusher, pressed in a basket wine press and the juice was collected in 5-gallon glass jugs. The juice will sit for several months to allow sediment to collect at the bottom and the juice to clarify. The juice will then be transferred to smaller bottles. When ready, these bottles will be distributed locally as promotional samples.

Verjuice adds a unique dimension to foods and beverages. Try using this product in your favorite cocktail, in condiments such as mustard, ketchup and BBQ sauce, marinades, ceviche, roasted vegetables, desserts like lemon meringue pie and dishes like stew!

TRY USING THIS PRODUCT IN YOUR FAVORITE COCKTAIL, CONDIMENTS, MARINADES, CEVICHE, ROASTED VEGETABLES, DESSERTS AND STEWS!

For more information on verjuice, grapes, brambles and small berries, contact our Ag. Senior Resource Educator, Jim O'Connell, at jmo98@cornell.edu or (845) 340-3990 ext.390. Photo by Tara Kleinhans.

PRODUCER PROFILE: ISABEL

ISABEL IS A MEMBER OF THE 4-H LIVESTOCK AUCTION



What species did you raise this year? "Turkey, Duck, Chicken and Rabbit"

What was most difficult about raising your animals for consumption? "Trying new species and breeds and having them make good commercial weight."

What Should Consumers Know? "As a 4-H Producer, I have access to many educational events such as Pasture Management, Parasite Control, Marketing and much more. Many of these events are also open to the public. Also, because of education and 4-H compassion, my animals never know a rough day in their lives."

Do you use organic feed? "My animals are raised grazing, with fresh grass and hay. They also get fresh vegetables, fruit, grain, and supplements of mealworms and grubs for extra protein. Using organic labeled feed can be costly, so I use better quality feed and raise them organically."

To be put in touch with Isabel's registered farm about her products, contact our office. Photo Caption: Isabel with her Auction Turkey and buyer, John Ingrid of the Ulster County Agriculture Society, Image by Tara Kleinhans.

ASHOKAN WATERSHED STREAM MANAGEMENT PROGRAM

THE IMPORTANCE OF STREAMS

Most people never stop to consider the importance of our streams, but that is exactly what 14 students at Bennett Elementary School have done. The students, all members of the Watershed Detectives Club, created a 30-minute science education video that is now online for all to see. The video may be watched at <https://youtu.be/Z8qLMeUE7hg>.

Watershed Detectives is an after-school science club where students learn about streams and the Ashokan Reservoir watershed, part of the NYC Drinking Water Supply System. Students made the video after a year studying local streams, water quality, and water conservation.

This motivated group of fourth, fifth and sixth-grade students were involved in all aspects of the movie making process. They worked as actors, directors, camera, light and sound technicians, cue card holders and even caterers. "I love learning the details of the movie making process, it is so much fun trying the different jobs," according to Landry Mack, a Watershed Detective in the fifth grade.

Students produced the video over a three-month period with the assistance of their club advisor, Matt Savatgy, a youth educator with Cornell Cooperative Extension of Ulster County (CCEUC). "The kids really enjoy the "hands-on" process of movie making as well as the use of technology," said Savatgy. "They have high standards for their work and they are very serious about the quality of the finished product."

This fun, action-packed video was produced with the assistance retired Onteora teacher and videographer David Laks. It will serve as a useful tool for elementary school teachers or anyone eager to learn more about their local water resources.



"STREAMS ARE A VITAL PART OF THE ECOSYSTEM AND IT'S IMPORTANT TO PROTECT THEM FROM THREATS LIKE INVASIVE SPECIES."

Students in the video describe how streams are a vital part of the ecosystem and why it's important to protect them from threats like invasive species. As a fun side project, they produced and performed a song titled "The Diddy Mo Rap" warning of the problems associated with an invasive stream algae. "I really enjoyed all of the fun and laughter we had making the movie" said Kai Caswell, a fifth grader, "especially with our mistakes and bloopers."

The Ashokan Watershed in the Catskill Mountains, where the Bennett School is located, served as the setting for the video. The students discuss why it is important to keep streams healthy, as they are often used as sources of drinking water. This is particularly true in the Catskill Mountains where streams provide fresh, clean drinking water to 9.5 million residents of New York State.

The video was made possible with education funding provided by the New York City Department of Environmental Protection in support of the Ashokan Watershed Stream Management Program (AWSMP).

To find out more about the Watershed Detectives and other youth watershed projects, contact Cornell Cooperative Extension's Matt Savatgy at (845) 688-3047 or mjs593@cornell.edu. For more information on the AWSMP, visit www.ashokanstreams.org. Photo Caption: Kai Caswell, a fifth-grader in the Watershed Detectives Club at Bennett Elementary School, helps to explain the importance of streams in a new student-produced educational video.



CONNECTING FOOD, FARMS, SOIL & CLIMATE:

STRENGTHENING COMMUNITY WHILE ENSURING A LIVABLE PLANET

Join us at this community forum, the first event in our new Climate Change Series. It will be held on November 1 from 6 p.m. to 8 p.m. at our Kingston office. Please go to our website for full details.

ANNIE'S PROJECT

BUSINESS EDUCATION FOR FARM WOMEN

This 4-part series (Nov. - Jan.) is designed for women who are farm owners or farm managers, who anticipate moving into a decision-making position on a farm. Session topics include: Intro; Building Financial Skills; Managing Your Land and Farm Infrastructure; Managing Your Business, Employees and Planning for Transition. Go to our website for more details and registration.



CULTIVATE NEW BUSINESS RELATIONSHIPS
WITHIN YOUR LOCAL COMMUNITY

Business-to-Business Taste NY Trade Show

Support Buying Local & Sample Local Products!

Free Event! Registration required, space limited!

October 30 from 10 a.m. to 2 p.m.

TASTE NY

FOOD & FARMS BUSINESS EXPO

REGISTER NOW!

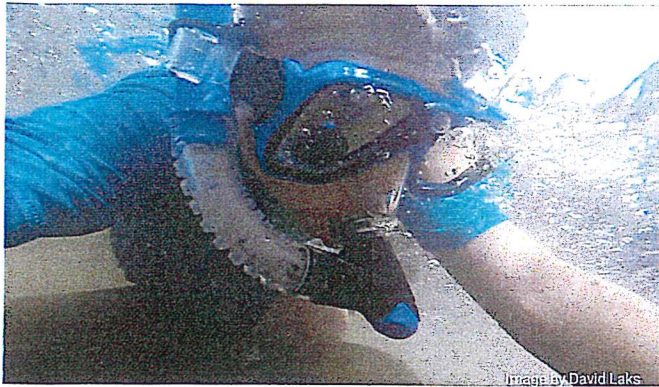
Taste NY hosts the "Hudson Valley Food and Farms Business Expo," a business-to-business trade show supporting New York agriculture and agriculture products. The event is an opportunity for vendors and buyers to cultivate new, local business relationships. The event will take place on October 30 from 10 a.m. to 2 p.m. at Anthony's Pier 9. The event is FREE for both vendors and buyers, but registration is required. To register, please visit <https://tinyurl.com/farmandfoodexpo>.

4-H OPEN HOUSE

FIND OUT ABOUT 4-H OPPORTUNITIES!

If you have youth looking for fun, extracurricular clubs and activities outside of school that teach through the "Learn-by-doing" model, come to our 4-H Open House! The event will be at our office in Kingston on November 3. You will be able to meet current clubs looking for members and learn how to start your own club. Many clubs show off their projects at the Ulster County Fair! Project areas include Civic Engagement, Agriculture, STEM and Healthy Living.

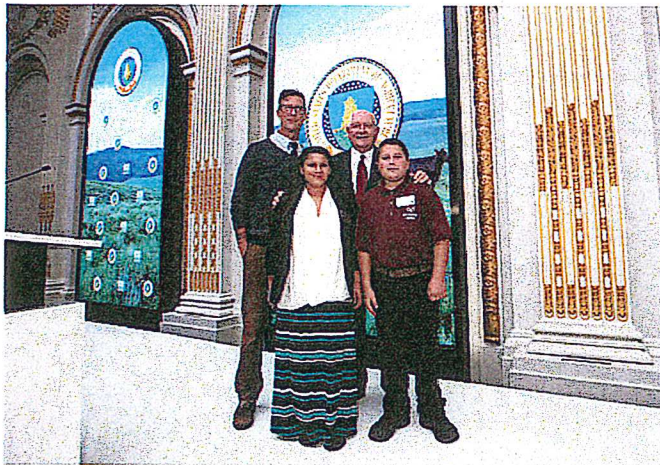




STREAM SNORKELING

EXCITING NEW PROGRAM

We have an exciting new way to teach people about the importance of streams. With a new stream snorkeling program, participants fully immerse themselves in stream studies! The inaugural event for this program took place August 10 at the Emerson Resort and Spa in Mount Tremper along the Esopus Creek. A short video recapping the day's activities can be viewed at <https://youtu.be/lb0-DCf8jS0>.



4-H YOUTH MEET U.S. SECRETARY OF AGRICULTURE

AT THE NEW YORK STOCK EXCHANGE

Ulster County Livestock Educator, Jason Detzel, and top achievers in the County's 4-H Auction Program, Isabel Harcourt-Ramon and Logan Woolsey were invited to meet with the United States Secretary of Agriculture, Sonny Perdue, last month during his visit to the NY Stock Exchange as representatives of the NYS 4-H Program and local farming interests. They were able to talk with and question some of the nation's largest agricultural producers as well as the Secretary himself in order to get a better sense of how the new tariffs and laws are going to affect local agriculture.



RESPIRATOR FIT-TESTING CLINIC

FACILITATED BY NYCAMH

The New York Center for Agricultural Medicine and Health (NYCAMH) provided an Agricultural Respirator Fit Testing Clinic at our office to 30 participants. The trainings were available in both English and Spanish. This training is for anyone who handles or applies pesticides or other materials which require them to wear a respirator, and teaches how to properly put on, take off, fit, seal check, use, clean, maintain, and store respirators. Clinics will be available again next year and hopefully earlier in the season in response to grower requests.

GO GREEN!

Switch to paperless by subscribing to our E-Newsletter. To subscribe, send an email to tdk36@cornell.edu

Cash Only
Please

Pick up a bag at our Kingston office!

OH YEAH

COFFEE

Artwork by Julie, Ulster County 4-Her

4-H COFFEE FUNDRAISER

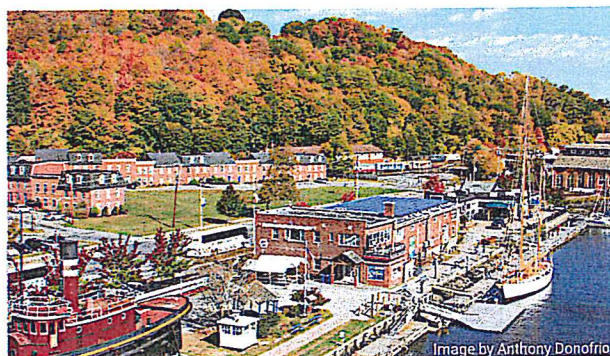
\$15 12+OZ PREMIUM WHOLE BEAN COFFEE

FRAGILE FIELDS

This coffee is grown in the most beautiful mountains of New York State. The coffee is grown in the heart of the Catskills, where the land is still being protected from development.

Supports the 4-H Extension Program in Ulster County. The 4-H Extension Program is a vital part of the community, providing youth with the skills and knowledge they need to succeed in life.

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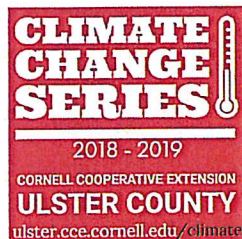


WATERFRONT RESILIENCE SUMMIT & HIGH WATER FEST AT RONDOUT LANDING IN KINGSTON

CCEUC was one of several proud sponsors and partners of the City of Kingston's Watershed Resiliency Summit and High Water Festival on October 19th on the Kingston waterfront. The event began with a mayoral level summit highlighting the challenges and successes that Kingston and other local municipalities experience in adapting and mitigating to the onset of climate change. Adapting to increasing storm intensities, higher rainfall, resultant flooding, higher temperatures and sea level rise are just some of the current challenges facing local governments. Many municipalities are leading the way to mitigating climate change by reducing carbon emissions through the utilization of cleaner energy and transportation.

The Summit, which was attended by over 50 local leaders and professionals, was followed by the High Water Festival, a public event highlighting Kingston's past, present and future projects adapting to and mitigating the effects of climate change. The event included food, music, exhibitors, children's activities and a performance by Arm of the Sea Theatre. Additionally, attendees were provided the opportunity to assemble an emergency kit to take home. The event showcased the Cornell School of Landscape Architecture's Climate Adaptive Designs which focused on the Kingston waterfront. The students' designs provided an insight to possible future projects adapting to expected sea level rise for 2020, 2050 and 2080. With funding from the NYSDEC's Hudson River Estuary Program, and in partnership with the City of Kingston and others, CCEUC has helped to provide support for the Cornell students work in the City of Kingston over a three year period.

(Continued from front cover...)



CLIMATE CHANGE SERIES

To show our commitment to climate change outreach and education, we are kicking off a year of activities - our first Climate Change Series. It is designed to bring all our climate-related activities under one banner to give you better access to world class events, lectures, classes and hands-on activities that you can do to make our community more resilient and readier to meet climate change challenges. Keep an eye out for our Climate Series logo and check out our website for the latest events and information on Climate Change.

THANK YOU SPONSORS!

