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"We know that in September, we will wander through the warm winds of summer's wreckage. We will welcome summer's ghost." - Henry Rollins



From The Director

We are growing at the Eastern Shore AREC and are pleased to introduce another new faculty member for 2022! Dr. Doug Higgins will serve as our resident Applied Plant Pathologist and has a 50% applied research and 50% Extension appointment. Please reach out to Doug to introduce yourself, your farming operation, and to let him know what applied research needs you have to improve your productivity!



Dr. Doug Higgins

Doug recently completed both his Ph.D. in plant pathology and postdoctoral research at Michigan State University. His experience is in applied plant pathology research and traditional and novel platforms for disease diagnosis for specialty crops. Doug is looking forward to developing an innovated research and extension Plant Pathology program on a diversity of vegetable (snap bean, potato, tomato, watermelon, sweet corn), grain (wheat and corn), and oilseed (soybean) crops of importance to the Eastern Shore. Doug is joined on the Shore by his wife Nikita and 1-year old daughter Leona. The whole family is looking forward to sampling the local oyster roasts and crab boils, exploring the Chesapeake Bay and Atlantic Ocean with their canoe and kayaks, and becoming part of the Hokie community.

Please reach out to Doug through any of the following methods:

Email: doughiggins@vt.edu

Mobile Phone: 517-803-0636

See more information in this newsletter regarding upcoming events and stop by to visit with Doug!

- Mark

Agents Corner



2022 Eastern Shore Household Water Testing Clinic

Accomack and Northampton County VCE Offices held their annual well water testing clinic in June and 116 samples were collected. In August, participants received their results and the lab found that a few samples had elevated chloride in the sample. Chloride is a nuisance contaminant, and EPA suggests that public systems keep chloride levels below 250 mg/L. There is no health-based level for chloride, although excessive chloride can produce a salty taste. Overall the samples sent to the VT Lab in Blacksburg did not show any elevated levels of contaminants. A good report from the lab! IF you'd like to see more results, please look at the well water summaries attached to this newsletter. Funding for Eastern Shore water analysis in 2022 was provided through an EPA grant and our partnership with Southeast Rural Community Assistance Project (SERCAP). SERCAP provides technical assistance and financial assistance in the form of loans or grants for well owners to repair or replace their wells, and sometimes funding is available for water treatment devices.

2022 Eastern Shore Pest Monitoring Program

We have been monitoring corn earworm and armyworm for the past two months and will continue to do so for another week or so. Northampton County has seen heavy corn earworm pressure in some spots while Accomack's fall armyworm numbers are starting to creep higher. As we move into corn harvest, don't forget to continue to sweep your soybean fields for armyworm infestations. We would like to thank Helene Doughty, at the ESAREC, for contributing her scouting numbers to our weekly report.

Italian Ryegrass Prevention Workshop

The Italian Ryegrass Prevention Workshop was held at the Eastern Shore AREC on Wednesday, August 31st. Thank you to Dr. Michael Flessner, Weed Science Specialist, for coming from Blacksburg to talk on this very timely topic! Attendees that represented over 11,000 tillable acres learned from Drs. Flessner and Singh about chemical and non-chemical measures used to control Italian Ryegrass in wheat. Additional thank you's go out to Horizon Farm Credit and Scott Insurance for sponsoring breakfast biscuits and coffee from Liv's café.

Farm Tour – Accomack & Northampton County

Accomack and Northampton County Cooperative Extension offices are in the middle of Farm Tour planning. On Tuesday, September 20th the Accomack County Farm Tour will provide an on-farm Agricultural experience for all 3rd graders in Accomack County. The following day, September 21st the event will shift to an on-farm experience in Northampton County. At the event, 3rd graders will have a hands-on experience rotating amongst booths learning about all aspects of agriculture on a working farm. This event in the past has been praised by teachers as one of the best field trips for the kids! Both offices are soliciting monetary and in-kind donations in support of this on-farm experience for the ESVA 3rd graders. If you would like to donate, please contact your County Agent. Thanks for your support!

Fall Farmer's Market Opportunity!

The Town of Exmore is launching its first annual Fall Festival on Saturday, September 24, 2022. If you make it, bake it, grow it, sew it, shape it, carve it, can it or otherwise bring a product into being by hand



(and with your heart) this event is for you. This event is a venue to showcase and sell what you produce. Farmers, watermen, bakers, or any maker of hand crafted goods are welcome.

Eastern Shore Agricultural Fair

Northampton County Cooperative Extension and the Eastern Shore Chamber of Commerce are fully immersed in planning for the 2022 Eastern Shore Agricultural Fair. The fair committee is focusing on bringing Aquaculture as

a featured commodity to the event. There will be an Oyster Shucking competition, wader relay races, skillet throwing competition, and more! The Peninsula Tractor Organization will be hosting an Antique Tractor parade and an Antique Tractor Pull at the event as well. Educational booths will be on hand to provide a hands-on experience for Fair goers. Please come out and enjoy this event that is free and open to the public on Saturday, October 8th at the Old Northampton Middle School. Please see the Schedule of Events flyer attached to this newsletter and visit the Chamber's website: <https://www.esvachamber.org/esvaagfair>



2022 Eastern Shore Master Gardener Fall Garden Symposium

The ESVA Master Gardener Association is hosting a fall garden symposium on Saturday, October 22 at the Chincoteague Center on Chincoteague Island. **Tickets are \$75** and include a full day of thought provoking lectures focusing on purposeful gardening and includes morning coffee/tea & pastry, a boxed lunch, afternoon snack, educational booths, a gift basket raffle and more! Tickets can be purchased at www.esvmg.com.

2023 Eastern Shore Ag Conference

A few inquiries have been made regarding the date for the 2023 Eastern Shore Ag Conference. Please save the date and mark your calendars for January 25th & 26th 2023. We plan for 2023's event to be just as engaging as last year's event. Additionally, we will continue the tradition of hosting an Oyster Roast on the evening of the first day of the event. Be on the lookout for more information regarding the 2023 event as we move into the fall.

Wanda & Theresa



SKILLS CHALLENGE

Hélène Doughty invites you to test your entomology knowledge by taking this 10-question quiz! <https://tinyurl.com/esarecquiz>



September

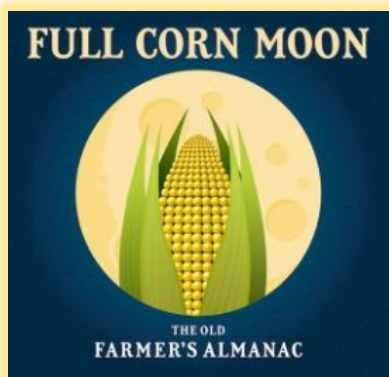


Happy
LABOR DAY

Labor Day is a holiday to commemorate American workers and their achievements. It became a federal holiday in 1894. The holiday stemmed from labor strikes, which brought to light the unsafe and unsanitary working conditions as well as the long hours of workers during the Industrial Revolution era.

Labor day for many today signifies the end of summer and the beginning of the school year.

Hispanic Heritage Month is observed September 15 – October 15. It began as National Hispanic Heritage Week under President Lyndon B. Johnson in 1968 and the month-long designation was signed by President Ronald Reagan in 1988. President George H.W. Bush was the first president to declare the month-long designation in 1989. The month celebrates and honors Hispanic and Latinx cultures and celebrates their independence.



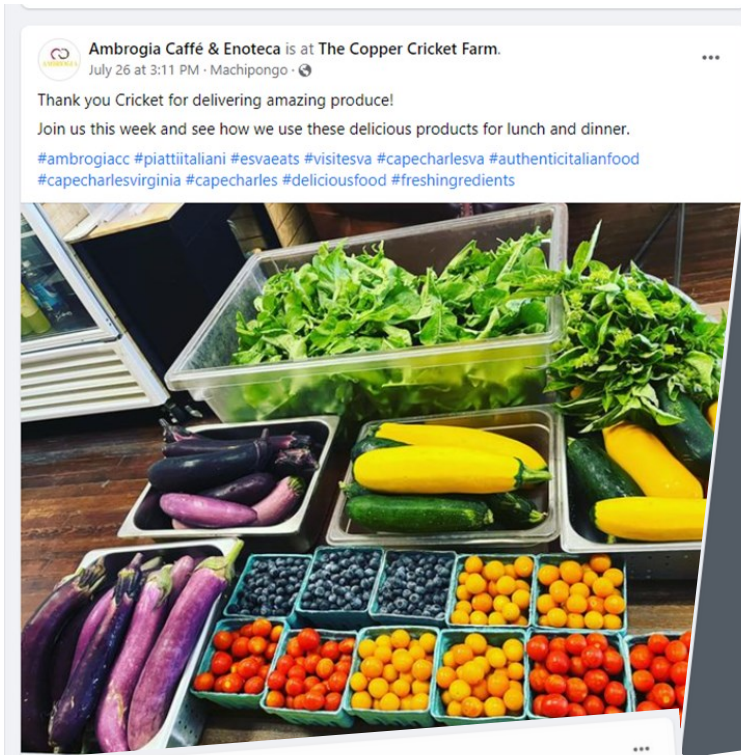
September 10th marks the full corn moon since this is typically the time of corn harvesting. Or when the moon occurs closer to the fall equinox, it's referred to as the harvest moon.

Each month has a full moon theme and name, which is historically derived from Native Americans, Colonial or European sources, and used in the Old Farmer's Almanac.



Community Agriculture Spotlight

This month we feature the many ways agriculture and aquaculture make an impact on our local Eastern Shore restaurants and businesses! These are just a few of the collaborations between restaurants and local farmers.



Ambrogia Caffé & Enoteca is at The Copper Cricket Farm.
July 26 at 3:11 PM · Machipongo · 🌐

Thank you Cricket for delivering amazing produce!
Join us this week and see how we use these delicious products for lunch and dinner.
#ambrogiacc #piattitaliani #esvaeats #visitesva #capecharlesva #authenticitalianfood #capecharlesvirginia #capecharles #deliciousfood #freshingredients

Dublin Farms is at Chincoteague Volunteer Fireman's Carnival.
July 21 at 5:32 PM · Chincoteague · 🌐

Another 3,000lbs of #virginiagrown yellow potatoes are off to become french fries at the Chincoteague Volunteer Fireman's Carnival. Get out there this weekend and enjoy all the good times and good food with friends and family. #virginiasfinest #virginiapotatoes #summerpotatoes #esva

Shore Breeze Farms LLC
May 6 · 🌐

Another load heading up the road to [Island Creamery](#). If you are visiting Chincoteague check them out and give their page a like.

Exmore Diner
July 24 at 8:39 AM · 🌐

- ✓ 30lbs bacon cooked
- ✓ 50lbs Dublin Farms redskins cooked for homefries w/onions
- ✓ Grits cooked

All we are missing is your smiling face!!!!



Maurice
March 24 · 🌐

Thrifty Wine Thursday is here!
Stop by for selected Half Priced bottles (all bottles under \$45) as well as half price on ALL By The Glass Wines! Come revisit an old favorite or try something new and exciting!!
All of our Chatham Vineyards selections are included in this special! (Photography by Sara Harris Photography)

Maurice!!
#fun #fine #fusion #saraharris
#finewine #sommelierlife
(757) 387-4889



Salt & Sand Family Restaurant
May 5 · 🌐

Dinner is under way, got lots of local items tonight. Fresh NC Shrimp, Softcrabs, Drum, and Strawberry 🍓 Shortcake made with [Shore Breeze Farms LLC](#) fresh strawberries.
Dine in or take out.
Hope to see you.

SHANTY

APPETIZERS

- CLAM CHOWDER** our award winning recipe
- HUSH PUPPIES** honey butter 9
- SHANTY CRAB DIP** local blue crab in cream mixture w. old bay & mini naan mp
- TUNA POKE TACOS*** sushi grade tuna, v sesame aioli, soy scallion marinade 15

RAW & STEAMED

- ANGRY CLAMS** local cherrystone clams, spicy garlic butter broth, herbed buttered brioche 17

Community Agriculture Spotlight

Collaborations continued

Cape Charles Brewing Company
March 2

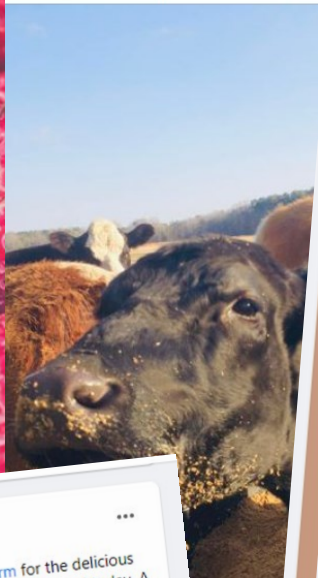
Brew to Moo 🐮🍷

For the past 3 years, we have teamed up with our local farmers in providing ALL of our used grain to feed livestock.

The "spent", or used grain, is a byproduct of the brewing process and is rich in fiber and protein, making it an irresistible porridge-like treat for the animals.

About 85% of our solid waste in the brewery is spent grain. Instead of dumping this nutrient rich food, which can be wasteful and harmful to the environment, we choose to embrace a more environmentally sustainable method to dispose of our waste. At the same time, animal feed is a major cost for farmers with livestock- making the perfect symbiotic relationship between our Brewers and Local Farmers.

These are some happy ESVA Cows & Pigs! 🐷🐮



brown dog ice cream
May 30

Eastern Shore Strawberry is our Flavor of the Day! Come get your cup, cone or shake gone!



Wachapreague Volunteer Fireman's Carnival
June 29 at 12:02 PM

This is your last week to get one of our delicious Crab Cakes. Our crabmeat comes right across the street from our carnival.

Lilliston Seafood has been the supplier of our crabmeat and we appreciate them so much. Darryl and Jackie Lilliston have also volunteered their time, as well.

#supportlocal 🍷🍷🍷

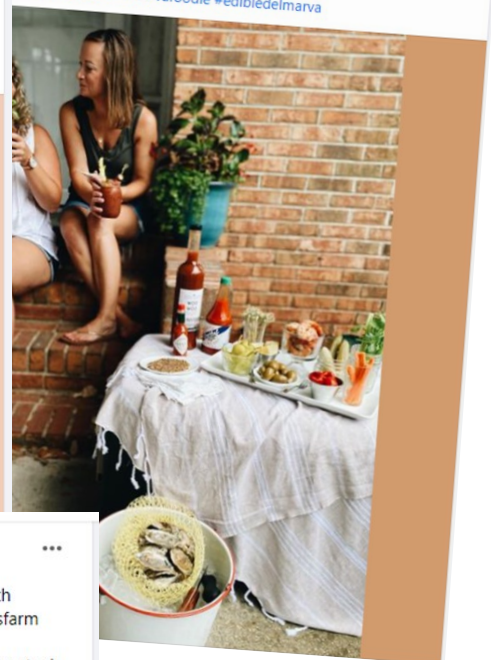


Cherrystone Aqua-Farms
July 10 at 1:29 PM

Chase the Sunday Scaries away with a porch side Bloody Mary bar.

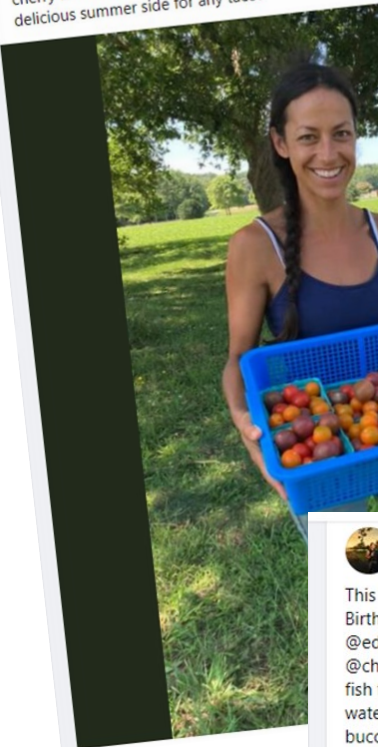
We teamed up with the @capecharlesdistillery to offer a Bloody Mary Bundle: their famous Sexy Mary mix and rimmer + 25 CAF oysters (you get your pick).

#oysters #cherrystoneaquafarms #vafoodie #edibledelelmarva



Pico Taqueria
July 11, 2021

I love trips to the farm to pick up produce! Big thanks to Jenna at [Seafield Farm](#) for the delicious cherry tomatoes and to [Perennial Roots Farm](#) for the basil in our 🍅 and mozzarella salad today. A delicious summer side for any taco!



brown dog ice cream
22h

NEW FLAVOR!! Pickett's Harbor Peach Ice Cream is our Flavor of the Day! Fresh peaches with a hint of vanilla is refreshing and tastes like summer. Get your cone, scoop or shake while it lasts!



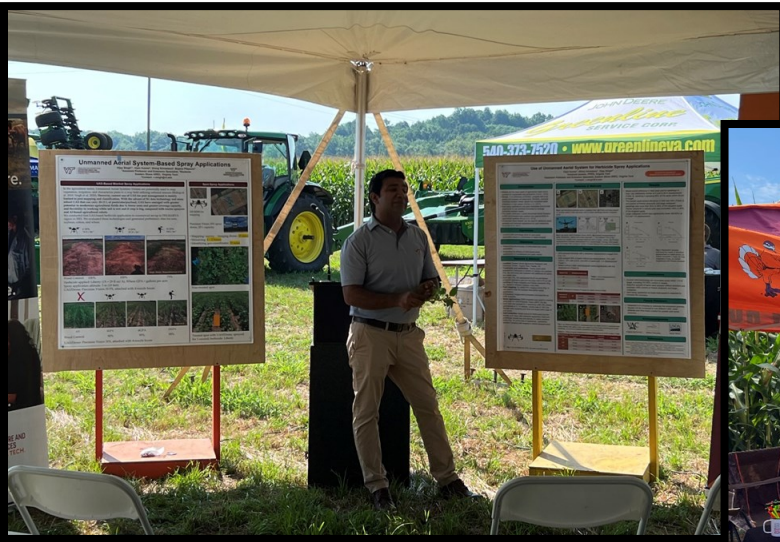
Love + Rosemary is in Cape Charles, Virginia.
June 10

This week we had a great time doing a private chef dinner @thesandlothouse for its 100th Birthday! The menu was inspired and sourced on the Eastern Shore with @perennialrootsfarm @edwardsseasidefood @cherrystoneaquafarms and wine pairings with wines from @chathamvineyards and select wines from @gull_hummock the menu: oysters Roc a Bella, steak fish fried with shiitake mushrooms over fava beans with garlic and greens, drizzled truffle oil, watermelon, fennel & feta salad, grilled duck breast over lentils and sautéed Swiss chard, osso bucco with baby carrots over polenta and an edible Picasso board with a berry salad drizzled in white honey balsamic vinaigrette from @drizzlesllc and served in a Parmesan basket.

#privatechefdinner #esvacaterers #lovenrosemary #capecharlesvirginia #capecharlesva #capecharles #capecharlesfoodie

Virginia Ag Expo

We had a great time visiting with growers, industry, government, and other stakeholders interested in Virginia agriculture at the Virginia Ag Expo in early August at Mill Creek Farms @ Camden in Port Royal, VA. At this event, Joseph Haymaker, Ph.D. student studying cover crop's impact on soil quality and nutrient cycling, John Mason, research specialist, and Dr. Mark Reiter, Soil and Nutrient Management Extension Specialist, discussed results from our 9-year Eastern Shore cover crop rotation and the overall potential for harnessing deep nutrients using various crop rotations in sandy loam soils. Dr. Vijay Singh participated in the Virginia Tech Center for Advanced Innovation in Agriculture's (CAIA) discussion by presenting technologies that aim to control herbicide resistant weeds that are detrimental in Virginia agricultural systems.



Virginia Tech Weed Science Team Takes First Place

The 2022 Northeastern Weed Science Society (NEWSS) Collegiate Weed Science Contest, held at Syngenta Canada's Honeywood Research Facility at Plattsville, Ontario, featured 60 students from Cornell, Clemson University, North Carolina State University, Pennsylvania State University, Rutgers University, Virginia Tech and host school, the University of Guelph. According to the [Syngenta.ca](https://www.syngenta.ca) NEWSS news release, "The full-day event put weed science students to the test in the areas of weed identification, sprayer calibration, herbicide symptom identification and in-field problem solving." The Virginia



Mr. Vipin Kumar accepts his first place award.

Tech Weed Science Team won first place in the grad student division as well as taking home many individual awards. Vipin Kumar, MS student, Eastern Shore AREC, won first prize in the Herbicide Symptomology Identification section of the contest. Congratulations to Vipin and the VT Weed Science Team!



The Virginia Tech Weed Science Team - pictured left to right - Jacob Barney (Assistant Prof./ Team Coach), Vipin Kumar (MS), Prasashti Agarwal (PhD), Navdeep Godara (PhD), Matthew Spoth (MS), Eli Russel (PhD), Cynthia Sias (PhD), John Peppers (PhD) and Timothy Shively (PhD).



DONATE TO

Accomack County Farm Tour Day

The donations received help cover the cost of the learning station tents, tables, chairs, lunch items, handwashing stations and port-a-potties for all ACPS third grade enrollment. Farm Tour Day is a non-profit event and would not be successful without the in-kind donations and volunteer help.

[HTTPS://LINK.GLOVER.COM/URLSHORTENER/DNLCG](https://link.glover.com/urlshortener/dnLGG)





FREE
& OPEN
TO THE PUBLIC

SCHEDULE OF EVENTS



Eastern Shore Agricultural Fair

October 8, 2022 | 10:00 AM – 2:00 PM

7247 Young St., Machipongo, VA (old Northampton Middle School)

<https://www.esvachamber.org/esvaagfair>

- 10:15am Antique Tractor Parade
- 10:30am Baking Competition Judging
- 10:45am ANEC Lineman Climbing Demonstrations
- 11:00am Wader Relay Races
- 11:15am Skillet Throwing (Men)
- 11:45am Skillet Throwing (Women)
- 12:15pm Oyster Shucking Contest
- 12:45pm Keg Rolling
- All Day: Tractor Pull
- Kids' Pedal Tractor Competitions and Kids' Archery
- Educational Booths and Craft Vendors
- Live Music by No Spare Time
- Hay Rides
- Kids' Area: Pumpkin Painting, Face Painting, Balloon
- Animals and More! Kids' Area wristbands are \$5.
- Food: Cape Charles Lions Club, Mt. Nebo Meats and more



 **Virginia Cooperative Extension**
Virginia Tech. • Virginia State University



Virginia Cooperative Extension is a partnership of Virginia Tech, Virginia State University, the U.S. Department of Agriculture, and local governments. Its programs and employment are open to all, regardless of age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, genetic information, military status, or any other basis protected by law.

ESVA
CHAMBER

Save The Date
Saturday October 22, 2022

**Eastern Shore of Virginia
Master Gardeners
Present**

Planting with Purpose

Fall 2022 Garden Symposium

Saturday, October 22

8 am - 4 pm

The Chincoteague Center

Guest Speakers



Barbara Ellis

Diversity in the Garden

Explore the value of diversity in the garden as well as the fun of maximizing the number of plants possible in your own garden.

Douglas Tallamy

Nature's Best Hope

Learn the simple steps we all can and must take to reverse declining biodiversity. Why we must change our adversarial relationship with nature.

Ginny Rosenkranz

Designing a Garden with Native and Other Perennials

Learn to plan a garden of color from the promise of Spring, through the heat of Summer and into the chill of Fall.

Mikaela Boley

Native Seed Saving and Sowing

Learn to speak the language of seeds and what it takes to sow and germinate some of our local plant species.



Tickets \$75 and include a full day of thought provoking lectures focusing on purposeful gardening and includes morning coffee/tea & pastries, a boxed lunch, afternoon snack, educational booths, a gift basket raffle and more. Sales are exclusively online beginning June 5 through Sept. 22.

No sales at the door. No refunds.

Check-in begins at 7:30. Gluten free and vegetarian options available.



Accomack and Northampton County Household Water Quality Testing Program

Sample Date: 6/29/2022

Water Chemistry Analysis Results

Total No. of Samples 116

Constituent	Detection Limit (DL)	EPA recommended limit or range	Average	Minimum	Maximum	exceeding EPA recommendation	
						No.	%
Iron (mg/l)	0.0010	0.3	0.404	0.003	27.667	11	9.5%
Manganese (mg/l)	0.0010	0.05	0.044	DL	1.7	14	12.1%
Hardness (mg/l)	0.017	120 - 180 (hard)	74.4	0.3	323.8	1	0.9%
		>180 (very hard)					
Sulfate (mg/l)	0.30	250	15.3	0.5	203.7	0	0.0%
Fluoride (mg/l)	0.10	2 (SMCL)	0.17	DL	1.03	0	0.0%
		2 (MCL)					
Total Dissolved Solids (mg/l)	1.0	500	285.	65.	964.	14	12.1%
pH	N/A	Min 6.5	7.9	5.8	8.7	6	5.2%
		Max 8.5				6	5.2%
Copper (mg/l)	0.0010	First Draw: 1.3	0.052	DL	2.48	2	1.7%
		Flush: 1.3	0.012	DL	0.278	0	0.0%
Sodium (mg/l)	0.0010	20	56.09	5.34	332.98	58	50.0%
Nitrate-N (mg/l)	0.005	10	0.299	DL	10.929	1	0.9%
Arsenic (mg/l)	0.0010	First Draw: 0.01	0.001	DL	0.01	1	0.9%
		Flush: 0.01	0.001	DL	0.011	1	0.9%
Lead (mg/l)	0.001	First Draw: 0.015	0.003	DL	0.171	2	1.7%
		Flush: 0.015	0.001	DL	0.021	1	0.9%
Total Coliforms (MPN/100 ml)	1.0	0.0	23.8	DL	1,336	34	29.3%
E. coli (MPN/100 ml)	1.0	0.0	0.001	DL	1	1	0.9%

Bacteriological Analysis Results

Total No. of Samples 116

Total Coliform and E. coli Bacteria		Bacteria ABSENT	Total Coliform PRESENT	E. coli PRESENT
	# Samples	82	34	1
	% of Total	70.7%	29.3%	0.9%

Notes: Averages are calculated with values below the detection limit (DL) set equal to the detection limit.

Accomack and Northampton County Household Water Quality Testing Program

Sample Questionnaire Summary

Sample Date:

6/29/2022

Total number of samples: 116

Pollution Sources within 100 feet of Water Supplies		
Sources	number	% of all samples
response total	48	41.4%
septic	25	21.6%
privy	0	0.0%
cemetery	0	0.0%
oil tank	2	1.7%
stream	3	2.6%
shoreline or marsh	28	24.1%
no response	68	58.6%

Pollution Sources within 1/2 Mile of Water Supplies		
Sources	number	% of all samples
responses	78	67.2%
landfill	0	0.0%
illegal dump	2	1.7%
active quarry	0	0.0%
old quarry	0	0.0%
commercial tank	2	1.7%
golf course	12	10.3%
field crop	64	55.2%
farm animal oper.	11	9.5%
manufacturing	5	4.3%
no response	38	32.8%

Household Water Source Distribution		
Sources	number	% of all samples
wells (total)	97	83.6%
dug or bored	1	0.9%
drilled	67	57.8%
don't know	29	25.0%
springs	0	0.0%
cisterns	0	0.0%
other	19	16.4%
no response	0	0.0%

Well Depth Distribution		
Well Depths	number	% of all wells
responses	43	44.3%
≤ 50 feet	3	3.1%
50 - 100 feet	2	2.1%
100 - 300 feet	37	38.1%
300 - 500 feet	1	1.0%
> 500 feet	0	0.0%
no response	54	55.7%
Minimum depth reported:		18 feet
Maximum depth reported:		400 feet
Average depth reported:		178.49 feet

Well Date Distribution		
Well Date	number	% of all wells
responses	70	72.2%
< 1950	1	1.0%
1950-1959	1	1.0%
1960-1969	0	0.0%
1970-1979	1	1.0%
1980-1989	12	12.4%
1990-1999	14	14.4%
2000-2009	23	23.7%
≥ 2010	18	18.6%
Minimum date reported:		1945
Maximum date reported:		2022
Average date reported:		1999.8

Pipe System Material Distribution		
Material	number	% of all samples
responses	114	98.3%
copper	33	28.4%
galvanized steel	10	8.6%
lead	2	1.7%
plastic	86	74.1%
other	0	0.0%
unknown	18	15.5%
no response	2	100.0%

Household Water Treatment Devices Installed		
Devices used	number	% of all samples
responses	30	25.9%
softener	14	12.1%
iron remova	7	6.0%
chlorinator	1	0.9%
acid water neutralizer	0	0.0%
sediment filter	14	12.1%
carbon filter	3	2.6%
ultraviolet (UV) light	2	1.7%
reverse osmosi	1	0.9%
other	5	4.3%
don't know/not sure	9	7.8%
no response	1	0.9%

Corrosion Reported	
Number of samples with corrosion problems:	11
Percent of all samples with corrosion problems:	9.5%
Percent of samples with No Response:	2.6%

Particles in Water Reported		
Particles	number	% of all samples
responses	18	15.5%
white flakes	6	5.2%
black specks	10	8.6%
red slime	2	1.7%
brown sediment	4	3.4%
other	1	0.9%
no response	5	4.3%

Staining Problems Reported		
Staining	number	% of all samples
responses	68	58.6%
blue/green	1	0.9%
rusty	55	47.4%
black/gray	5	4.3%
white/chalky	14	12.1%
other	2	1.7%
no response	3	2.6%

Number of People in Household		
Category	number	% of all samples
responses	116	100.0%
total for clinic	266	n/a
average per sample	2.29	n/a
no response	0	0.0%

Are Household Members Sick?		
Response	number	% of all samples
responses	116	100.0%
no	93	80.2%
yes, one	2	1.7%
yes, more than one	2	1.7%
no one drinks water	19	16.4%
no response	0	0.0%

Virginia Cooperative Extension

Northampton County
16392 Courthouse Rd
PO Box 457
Eastville, VA 23347
757-678-7946

Accomack County
23185 Front St
PO Box 60
Accomac, VA 23301
757-787-1361

Virginia Cooperative Extension brings the resources of Virginia's land-grant universities, Virginia Tech and Virginia State University, to the people of the commonwealth. VCE provides education through programs in Agriculture and Natural Resources, Family and Consumer Sciences, 4-H Youth Development and Community Viability.

Eastern Shore Agricultural Research and Extension Center

33446 Research Dr
Painter, VA 23420
757-807-6586



<https://www.aren.vaes.vt.edu/aren/eastern-shore.html>

The Virginia Tech, Eastern Shore AREC is committed to supporting commercial vegetable, grain, oilseed, and fiber production throughout the Commonwealth of Virginia. Centrally located on Virginia's Eastern Shore, the center conducts basic and applied research on more than 25 agricultural crops.



ESAREC & VCE Contact Information

ESAREC Faculty	Email	Work Phone	Cell Phone	Title
Mark S. Reiter	mreiter@vt.edu	757/807-6576	757/693-2556	Director/Professor, Soils & Nutrient Management
Vijay Singh	v.singh@vt.edu	757/807-6579	479/713-0094	Assistant Professor, Weed Science
Emmanuel Torres	etorres@vt.edu		352/682-0708	Assistant Professor, Horticulture
Doug Higgins	doughiggins@vt.edu		517/803-0636	Assistant Professor, Plant Pathology
Lorena Lopez	lorellopezq257@vt.edu		954/529-9042	Postdoctoral Associate, Entomology
ESAREC Staff	Email	Phone	Cell Phone	Title
VACANT		757/807-6596		Research Specialist, Weed Science
James Custis	jcustis@vt.edu	757/807-6596		Farm Manager
Hélène Doughty	hdoughty@vt.edu	757/807-6592	757/999-0780	Research Specialist, Entomology
Andrew Fletcher	alf20007@vt.edu	757/807-6596		Assistant Farm Manager
John Mason	masonje@vt.edu	757/807-6582		Research Specialist, Soils & Nutrient Management
Lauren Peyton Seltzer	mlpeyton@vt.edu	757/807-6586	757/710-5701	Executive Secretary Sr.
VACANT		757/807-6583		Research Specialist, Horticulture
Ursula Deitch	ursula@vt.edu	757/678-7946	16392 Courthouse Rd Eastville, VA 23347	ANR Agent, Northampton County
Theresa Pittman	tpittman@vt.edu	757/787-1361	23185 Front St Accomac, VA 23301	ANR Agent, Accomack County

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