# 2018–2019 Annual Report

# Culpeper Soil and Water Conservation District

http://www.culpeperswcd.org

# **Culpeper Office**

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# **Orange Office**

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Culpeper, Orange, Greene, Madison and Rappahannock Counties, member localities of the Culpeper Soil and Water Conservation District, provide annual financial support for district operations, district staffing, technical assistance and engineering assistance.

The Soil and Water Conservation District seeks out many project-based grants from the Commonwealth of Virginia-Department of Environmental Quality, the National Oceanic and Atmospheric Administration BWET Program, the Chesapeake Bay Restoration Fund, Chesapeake Bay Trust, the Virginia Resource Use Education Council and others, to support program development and staffing.

The Commonwealth of Virginia supports the Culpeper Soil and Water Conservation District through financial and administrative assistance provided by the Virginia Soil and Water Conservation Board and the Department of Conservation and Recreation.

# **Board of Directors**

# **Culpeper County**

Andrew Campbell Thomas O'Halloran, Treasurer Laura A. Campbell, Associate Director

# **Greene County**

Philip Morris, Vice-Chair Robert Runkle Steve Morris, At-Large Director Sarah W. Sharpe, Ext. Agent At-Large

# **Madison** County

Lynn Graves, Chair Stephen Hill L. Brad Jarvis, Associate Director James Byrne, Associate Director

# **Orange County**

Robert Bradford J. Robert Brame III Warren Lee, Associate Director

# **Rappahannock County**

Mike Biniek Dr. Monira Rifaat

# **District Staff**

Greg Wichelns, District Manager JoAnn Neal, Administrative Secretary Richard Jacobs III, Conservation Specialist III W. Spencer Yager, Conservation Specialist II David Massie, Conservation Specialist III Henny Calloway, Conservation Specialist II Amanda McCullen, Conservation Specialist II Kendall Anderson Dellinger, Conservation Specialist I James Henshaw, District Representative Stephanie DeNicola, Information/Education Coordinator

# **Natural Resources Conservation Service**

Rex Rexrode, District Conservationist Nancy Utz, Soil Conservationist Ashleigh Cason, Soil Conservationist Courtney Pooton, Soil Conservationist

John Jeffries, ACES

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Top: 2018 Educator of Year Brandon Allen Fincham Middle: BMP Forestry Award Recipient Bradford Farms Bottom: Wildlife Habitat Award Recipient William W. Sanford

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# About Us

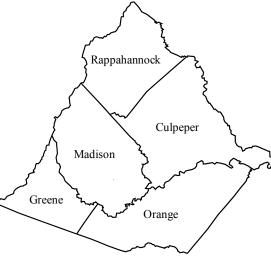
The Culpeper Soil and Water Conservation District (CSWCD) is a political subdivision of Virginia. Geographically, it includes the counties of Culpeper, Greene, Madison, Orange and Rappahannock. Founded in 1939 by citizens concerned about soil and water conservation, the CSWCD is the largest of forty-seven conservation districts within Virginia and serves an area covering 1,445 square miles with about 117,000 constituents. (according to US Census estimates)

The staff consists of a District Manager, six Conservation Specialists, an Administrative Secretary, an Information/Education Coordinator and a part-time District outreach representative.

A 12-member Board of Directors governs the District. Each of the five counties within the elects District two members in the general election, one member is appointed at large and a Virginia Cooperative Extension Agent from one of the member counties is appointed by Virginia Tech. Directors are not paid, but

are locally elected officials who direct both the functioning of the district and the district staff as they work in partnership with the state and federal conservation staff. Directors are expected to attend monthly board meetings, participate on District Committees and work groups, represent the citizens of their county in regard to conservation issues and be willing to stay abreast of local conservation issues. They are also required to participate in policy and program development, as well as provide financial direction for proper expenditure and management of funds within the District. The Board also appoints Associate Directors as needed. Associate Directors are nonvoting members. The Board meets on the first Tuesday of each month at 9:30 AM and rotates meeting locations among the five counties.

All citizens of the District may have a voice in resource and conservation planning by attending monthly board meetings, communicating their concerns to directors or staff and by participating in District programs. The CSWCD develops a wide range



USDA Natural Service (NRCS).

of programs to encourage community participation in conserving and protecting soil, water and related natural resources, with particular focus on the impact of land disturbance and management of the Chesapeake Bay. District programs are funded by local, state and federal support and by sponsored District grants. Technical support is received from the Resources Conservation

# **Our Relationships**

#### **Member Counties**

The CSWCD signs a Memorandum of Understanding with each member county, a document that outlines responsibilities and is the foundation for an enduring cooperative working relationship. Such cooperation allows a joint effort in the solution of problems relating to the planning and development of soil, water, and related natural resource issues. Through our relationship with our member counties, CSWCD provides input for each county's comprehensive plan, reviews case files for input to planning commission meetings and reviews site plans for 4 counties and two towns.

#### Virginia Association of Soil and Water Conservation Districts

The CSWCD is a member of the Virginia Association of Soil and Water Conservation Districts (VASWCD). The mission of the VASWCD is to serve and strengthen member SWCDs in natural resource protection. The VASWCD also provides cohesive representation to legislative bodies on natural resource issues.

#### National Association of Conservation Districts

The CSWCD is a member of the National Association of Conservation Districts (NACD). The NACD provides a national voice to America's 3,000+ conservation districts on conservation issues. Along with membership in the NACD comes membership in the National Watershed Coalition, an association of organizations that advocates resource management from the small watershed perspective.

#### **Department of Conservation and Recreation**

The Department of Conservation and Recreation (DCR) is one of the lead state agencies for the control of nonpoint source pollution in Virginia; its soil and water conservation programs are delivered within the counties of Culpeper, Greene, Madison, Orange, and Rappahannock by the CSWCD. Funding for program delivery and implementation is provided by the state legislature and administered by DCR. The DCR Conservation District Coordinator (CDC) serves as the liaison between the District and DCR. The CDC also provides administrative assistance for the state's conservation program, assures that there is compliance with DCR requirements and interacts routinely with district staff and directors.

#### **Natural Resources Conservation Service**

The CSWCD works closely with the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS). A Memorandum of Understanding with NRCS outlines this cooperative effort. NRCS provides the services of qualified personnel for resource planning and technical assistance. The CSWCD annually reviews and provides comment on the agreement between the two agencies.

#### Virginia Soil and Water Conservation Board

The Virginia Soil and Water Conservation Board was established by the General Assembly to help guide the delivery of soil & water conservation services to citizens of the Commonwealth. The board's responsibilities include oversight and support of Virginia's soil & water conservation districts and oversight & enforcement of dam safety & floodplain management programs & regulations. District Directors interact with members of the Board on a myriad of topics.

### Virginia Cooperative Extension (VCE)

VCE brings the resources of Virginia's land-grant universities, Virginia Tech and Virginia State University, to the people of the Commonwealth. Local Extension Agents help design, implement and evaluate needs-driven programs such as pesticide collection, household water testing, farmers' markets and producer-targeted workshops. The District has a strong relationship with VCE agents.

#### Virginia Department of Forestry (DOF)

DOF provides technical assistance to private landowners to assist them in managing their forest land for forest products, water quality, protection of threatened and endangered species, historic resources and wildlife habitat. DOF also provides marketing and utilization assistance to forest industry and provides technical assistance in managing state owned lands of other agencies. This includes technical assistance and resource management plans; forest renewal; cost-share incentives; harvesting assistance and community grant assistance. District staff interact with DOF foresters on landowner assistance.

### Virginia Department of Environmental Quality (DEQ)

DEQ administers state and federal laws and regulations for air quality, water quality, water supply and land protection. In addition, other programs cover a variety of environmental activities, such as improving the ability of businesses and local governments to protect the environment, and offering technical and financial assistance for air and water quality improvements. The District interacts with many voluntary grant programs administered by DEQ.

#### Virginia Department of Game and Inland Fisheries (DGIF)

DGIF is responsible for the management of inland fisheries, wildlife, and recreational boating for the Commonwealth of Virginia. Private Land Biologists advise landowners in the Culpeper District about practices that enhance or reestablish wildlife habitat.

#### USDA Farm Service Agency (FSA)

FSA serves all farmers, ranchers, and agricultural partners through the delivery of effective, efficient agricultural programs for all Americans. District staff rely on FSA assistance to effectively provide services to agricultural producers.

#### **Virginia Outdoors Foundation (VOF)**

VOF is Virginia's leader in land conservation, protecting more than 750,000 acres in 106 counties and independent cities. VOF is a public organization, created by the Virginia General Assembly in 1966 under <u>Virginia Code § 10.1-1800</u>. The District co-holds conservation easements with VOF.

#### Virginia Resource Use Education Council (VRUEC)

The VRUEC is an inter-agency council that coordinates environmental education events and policy in the Commonwealth. The Culpeper SWCD holds one of the two seats reserved for Soil and Water Conservation Districts. This role on the VRUEC allowed Culpeper staff to participate in a NOAA Education grant and have a role in statewide environmental education policy.

# Accomplishments of Committees

# 1. Technical

- Allocated over \$1,738,387.01 in agricultural cost share funding to needed projects in 5 counties and \$48,029.12 in state tax credits.
- Allocated **\$538,374.51** in residential cost share funding to **473** needed projects in the Upper Hazel, Upper Rapidan, Robinson River/Little Dark Run and Upper York TMDL watersheds and elsewhere in the District.
- Inspected, maintained & repaired 11 watershed flood control dams in Culpeper & Madison Counties.
- Committee Chair & staff provided input on programmatic improvements as a member of the State Agricultural Best Management Practices Advisory Committee & BMP Sub Committee.
- Reviewed **73** site plans in 4 counties and the Town of Culpeper for Erosion & Sediment Control & Stormwater Management Engineering.
- Participated in quarterly dam safety trainings for conservation districts.

### 2. Operations

- Reviewed monthly functions of all aspects of District business.
- Coordinated preparation of the annual budget & annual plan of work.
- Oversaw expenditures and provided guidance for organizational growth.
- Sought to increase funding from the Commonwealth.
- Sought out additional funding grants and project grants.

# **3.** Education/Public Relations

- Delivered 5, day-long, outdoor Meaningful Watershed Experiences for over 352 students.
- Coordinated the annual awards banquet, held in November 2018.
- Provided year long training to 2 Envirothon teams, coordinated 1 State-wide Envirothon training for coaches & students & organized Area Envirothon competition.
- Coordinated NOAA B-WET grant for MWEEs & assisted water & soil testing clinics.
- Sold 5 rain barrels and over 3,000 tree seedlings.
- Coordinated training for Board members on topics such as Cost Share Program Changes, Education Programs, TMDL updates and Virginia Conservation Assistance Program
- Published 4 editions of the newsletter & 10 articles for newspapers & other newsletters.
- Recognized 5 local students with college scholarships and 6 local residents with summer camp scholarships

# 4. Legislative

- Participated in Legislative Day in Richmond.
- Drafted CSWCD positions on conservation & land use issues & provided opinions to VASWCD.
- Informed District Board on all legislative issues relating to conservation & funding affecting Districts.

# 5. Personnel

- Provided employee performance reviews & training guidance.
- Provided workload analysis & staffing level reviews.
- Guided policy development on all personnel matters.

### 6. Finance

- Reviewed monthly bank reconciliations & quarterly reports to DCR.
- Provided monthly review of treasurer's reports & input to annual budgeting.
- Provided oversight for longer term financial planning.

# How We Operate

# **Annual Budget**

The 2018—2019 operating budget (July 1, 2018 to June 30, 2019) for the CSWCD was **\$875,279.** 

# **Funding Sources**

Funding included \$178,025 in general operating funds and \$467,452 in agricultural and septic technical assistance funding from the Commonwealth; \$196,802 from member counties; \$194,250 in watershed maintenance and repair funds from the Commonwealth; and \$40,633 in other grant projects.

٠	Culpeper	\$77,451
٠	Greene	\$18,920
٠	Madison	\$29,321
٠	Orange	\$60,292
٠	Rappahannock	\$14,662

# **Our Mission**

To promote the stewardship of soil and water and the conservation of our natural resources by educating and providing technical assistance to manage, protect and enhance the land and water for the benefit and enjoyment of the citizens of Culpeper, Greene, Madison, Orange and Rappahannock Counties

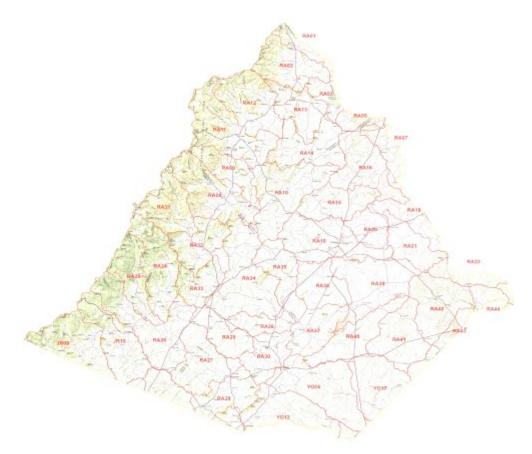
# **Technical Accomplishments**

# **Cost-Share Program**

The Culpeper SWCD locally administers the Virginia Agricultural Best Management Practices (BMP) Cost-Share Program. Funded with state and federal funds, this incentive program is designed to improve the quality of state streams, rivers and other water bodies through the implementation of BMPs. BMPs are designed to prevent soil erosion, minimize the introduction of nutrients, sediments and toxins into water bodies and enhance management opportunities. Sign-up for the program is on a continuous basis and eligible applicants, once approved, may receive up to 75-80 percent of the BMP installation cost up to \$70,000. Watershed areas or hydrologic units within the district are prioritized for funding based on statewide prioritization and local concerns (see chart below). Hydrologic units (see map on following page) are determined and designated by the United States Geologic Survey (USGS) and can be a drainage basin, aquifer, soil zone, lake, reservoir or irrigation project.

Water Body	Hydrologic Unit	County or Counties
Rappahannock River — Ruffans Run	RA18	Culpeper
Jonas Run	RA20	Culpeper
Mountain Run — Flat Run	RA21	Culpeper
Rappahannock River — Deep Run	RA23	Culpeper
Rapidan River — Marsh Run	RA27	Madison, Orange
Beautiful Run	RA29	Madison
Rapidan River — Poplar Run	RA30	Madison, Orange
Robinson River — Great Run	RA36	Madison
Rapidan River — Rapidan	RA37	Culpeper, Orange
Cedar Run	RA38	Culpeper
Rapidan River — Potato Run	RA39	Culpeper, Orange
Mountain Run — Mill Run	RA40	Culpeper, Orange
Rapidan River — Wilderness Run	RA43	Orange, Spotsylvania

### **Priority Hydrologic Units in the Culpeper District for 2018-2019**



The Culpeper SWCD has 54 complete or partial hydrologic units within its boundaries.

Cost share funds allocated for BMP installations through the Virginia Agricultural Cost Share Program during the 2018-2019 program year totaled **\$1,738,387.01** (excluding the septic system cost share programs.)

•	Culpeper:	\$412,065.80
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- Greene: \$158,088.79
- Madison: \$647,901.13
- Orange: \$331,053.34
- Rappahannock: \$189,277.95

# **Tax Credit Program**

The Commonwealth of Virginia supports the voluntary installation of Best Management Practices that address the state's nonpoint source pollution water-quality objectives. Agricultural producers with an approved conservation plan may take a credit against state income tax of 25% for eligible BMP expenses. The tax credit taken cannot exceed \$17,500 or the total state income tax obligation for the given tax year, but any excess can be carried over for up to five years. Tax credits granted by the District during the program year totaled **\$48,029.12** and were distributed as shown in the list below.

- Culpeper \$13,989.28 (5 landowners)
- Greene \$4,546.39 (4 landowners)
- Madison \$16,391.13 (13 landowners)
- Orange \$6,906.17 (6 landowners)
- Rappahannock \$6,196.15 (10 landowners)

# **Our Vision**

To achieve clear, clean surface and ground water, and

improved soil conditions that enhance the intrinsic value of

Culpeper, Greene, Madison, Orange and Rappahannock Counties.

# Erosion and Sediment (E&S) Control and Stormwater Management Programs

The Virginia Erosion and Sediment Control Program, adopted as state law in 1973, established minimum standards and guidelines to be followed when nonagricultural lands are disturbed. The state program is implemented primarily through local program adoption. The CSWCD is contracted with four of five member counties (Culpeper, Madison, Orange and Rappahannock) to provide plan review service for their Erosion and Sediment Control Programs and provides assistance to Greene County as requested. The Town of Culpeper also contracts for services. District responsibility as the reviewing authority involves reviewing site plans for developments and to review rezoning requests, special-use permit applications and preliminary subdivision plans upon request by the County.

There were 73 plans reviewed during the 2018-2019: 17 in Culpeper, 8 in Town of Culpeper, 8 in Madison, 28 in Orange and 12 in Rappahannock. These site plans include single family homes and private driveways that disturb greater than one acre.

Site Plans Reviewed by Culpeper SWCD			
County	Reviewed	Approved	Stormwater Management Facilities Approved
Culpeper	17	13	12 practices
Town of Culpeper	8	5	2 practice
Madison	8	4	1 practices
Orange	28	16	4 practices
Rappahannock	12	12	0 facilities



Figure 1: Active Erosion Control: Slope Remediation and Sediment Basin

The CSWCD relays complaints and observations regarding construction site activities to the appropriate county official. In addition, technical and educational assistance for E&S is provided to contractors, landowners and educators as requested.

The CSWCD has developed and provides several checklists for Erosion and Sediment Control Plans and Stormwater Management Plans. These checklists are guidance material for assisting contractors, engineers and developers in the planning and design of their land disturbing site plan. The Counties are encouraged to require the checklist as a prerequisite to site plan submission to ensure the quality of the site plan. Land-disturbance activities not regulated under the Erosion and Sediment Control Program continue to cause problems for County development and the community. These activities include private agricultural and recreational pond construction, disturbance of wetlands, improper streambank alterations without appropriate permitting review and land clearing activities that lack an adequate plan for stabilization due to lack of clear intentions for future use of the land.

Within all reviews, the CSWCD consistently promotes the design and implementation of Low Impact Development (LID) design strategies. We have developed an updated Environmental Site Design (ESD) checklist to aid in the implementation of LID.

Best management practices have been inventoried from approved site plans within all five counties. There are a total of 435 stormwater management facilities within the five counties and Town of Culpeper. The following table depicts the amount of acreage served by these stormwater management facilities as of September 2015:

Watershed	Stormwater Control Measures and Stormwater Treatment Practices	Runoff Reduction Practices
James	Detention Basin (28.36 acres); Under- ground Detention (5 ac); Wet Pond (1014.69 ac); Ext. Detention (7.4 ac); Manufactured Filters (1.69 ac)	Bioretention (78.37 ac); Infiltration (4.09 acre)
Rappahannock	Detention Basin (2,005.54 ac); Ext. De- tention (880.32 ac); Underground Deten- tion (29.85 ac.); Wet Pond (1684.65 ac); Manufactured Filters (19.75 ac.)	Infiltration (64.13 ac); Bioretention (76.64 ac); Wetland (0.33 ac); Riparian Buffer (5,735 LF); Green Roof (9 ac); Permeable Pave (1.52 ac); Dry Swale (11.76 ac)
York	Detention Basin (362.52 ac); Ext. Deten- tion (15.03 ac.); Wet Pond (45 ac)	Infiltration (2.19 ac); Bioretention (0.36 ac.); Permeable Pave (0.1 ac.)



Figure 2: Bioretention Basin for the Farm Credit in Culpeper County

# Small Watershed Dams (PL-566 Structures)

The Watershed Protection & Flood Prevention Act (Public Law 83-566 usually referred to as PL-566) was established more than 50 years ago to help control the extensive damage caused by flooding and sedimentation. This law gave the United States Department of Agriculture (USDA) the authority to work cooperatively with local governing bodies to construct and maintain dams throughout the country.

In the 1960s, the USDA Soil Conservation Service (now NRCS) constructed fourteen dams on both private and public lands within the District—five in Culpeper County and nine in Madison County. The District assumed local sponsorship of these dams and with this came the responsibility to uphold the operation and maintenance of these dams. The District continues to hold responsibility for eleven of the dam structures. Operation and maintenance of White Oak Dam in Madison County was transferred to the Rapidan Service Authority. Mountain Run Lake Dam and Lake Pelham Dam are operated by the Town of Culpeper. Lake Pelham in Culpeper County and White Oak Reservoir in Madison County also serve as water supply reservoirs. Lake Pelham and Mountain Run Lake were completely rehabilitated during Fiscal Years 17-19.

The Culpeper SWCD spent **\$194,750** during the 2018-2019 fiscal year for restoring embankment shorelines, installing filter drains, video inspection of all internal pipes, mowing, weed control, fertilizer application, liming and fencing. Maintenance contracts are offered annually and are awarded by sealed bid. The District coordinates efforts to secure maintenance and repair funding from the Virginia General Assembly with the Virginia Association of Conservation Districts.

Operation and maintenance is crucial to dam safety. Responsibilities of the CSWCD include:

- Annual inspections.
- Hiring contractors for routine mowing and maintenance and access road maintenance.
- Critical period inspections and monitoring (for example, during unusually heavy rainfall).
- Keeping spillways clear of debris.
- Preventing trees or bushes from growing on the dams.
- Eliminating burrowing animals from dam embankments.
- Maintaining a healthy stand of grass on the dam and spillways to prevent erosion.
- Inspecting for seepage on the dam face and around all metal and concrete parts.
- Inspecting closely for signs of deterioration
- Replacing and rebuilding internal drains and embankment shorelines





Above left: Video inspections of spillway pipes Above right: embankment regarding on flood control dams

Dam ID	Watershed	County	Normal Surface Area (Acres)	Drainage Area (miles <sup>2</sup> )
8A	Mountain Run	Culpeper	22	5
11	Mountain Run	Culpeper	75	5.86
13	Mountain Run	Culpeper	15	3.22
18	Mountain Run	Culpeper	46	3.99
50	Mountain Run	Culpeper	254	23.9
1B	Beautiful Run	Madison	13.5	2.31
2A	Beautiful Run	Madison	8.7	3.61
4	Beautiful Run	Madison	3.9	0.48
5	Beautiful Run	Madison	3.2	0.55
6	Beautiful Run	Madison	6.1	1.14
7	Beautiful Run	Madison	5.3	0.75
10	Beautiful Run	Madison	3.2	0.55
11	Beautiful Run	Madison	9.3	1.44
White Oak Dam	White Oak Run	Madison	46	5.05

# **PL-566 Dams Within the CSWCD**

# Agricultural Stewardship Act

The Agricultural Stewardship Act (ASA) was passed into Virginia law in 1996 and enables the mechanism by which a complaint can be filed with the State Commissioner of Agriculture and Consumer Services claiming that a particular agricultural operation is or will be polluting water. If the complaint is found to be justified, the producer is required by state law to remedy the situation. The CSWCD provides technical assistance to any producer who has been identified by an ASA complaint. By identifying new

management options and utilizing the BMP cost-share program and other incentivebased programs prior to mandated enforcement, the district can assist producers with remedial actions.

There was one ASA complaint in fiscal year 2018-2019 in the District. It was an unfounded complaint.

# **USDA Farm Bill Programs**

Administered by the USDA Farm Service Agency and Natural Resources Conservation Service, the following programs all provide financial incentives through multiple-year contracts to agricultural producers for the stewardship of natural resources.

**Conservation Reserve Program (CRP)** encourages farmers to convert highly sensitive cropland to vegetative cover, reducing erosion and runoff and providing wildlife habitats. Rent is paid per acre of land enrolled for a 10 to 15-year period. Cost share is available for BMPs to establish the conservation cover of trees or herbaceous vegetation. Offers are accepted and processed during fixed sign-up periods. (There is also a CRP continuous sign up program.)

**CRP-Grasslands** is a voluntary program that contracts with agricultural producers so that environmentally sensitive agricultural land that is not farmed or ranched can have conservation benefits. Participants establish long-term, resource-conserving plant species to control soil erosion.

**Conservation Reserve Enhancement Pro**gram (CREP) is an enhancement of the existing CRP Continuous sign-up program. CREP provides significant financial incentives to encourage stream bank and wetland protection as well as restoration of streamside forests. Pasture and cropland adjacent to perennial and intermittent streams, seeps, springs, ponds and sinkholes are eligible to be enrolled. CREP provides a yearly rental per acre for 10 to 15 years (amounting to twice that offered by CRP), pays for fencing to exclude livestock from riparian buffers, alternative water source development, and hardwood tree planting. A flat rate incentive payment is also offered for placing a permanent riparian easement on the enrolled area

Environmental Quality Enhancement Program (EQIP) is available for farmers who face threats to soil, water and related natural resources. It offers 1 to 5-year contracts to landowners and farmers who are engaged in livestock or agricultural production. Applications achieving the most environmental benefits are ranked higher and will be funded first. Cost share assistance and/or incentive payments are available.

**EQIP- Regional Conservation Partnership Program (EQIP-RCPP)** funds fencing projects similar to the SL-6 practice under the Virginia BMP Program.

**Reforestation of Timberlands (RT)** encourages the development, management and protection of non-industrial private forest lands in the state through cost-share for site preparation, tree planting, and improvement of existing stands of trees. Practices are directed toward the production of soft and hard wood timber.

**Emergency Conservation Program** (ECP) shares the cost of rehabilitating eligible farmlands damaged by natural disaster with agricultural producers and provides emergency water assistance for livestock and existing irrigation systems for orchards and vineyards during severe drought.

**Conservation Stewardship Program** (CSP) is a voluntary program that encourages producers to address resource concerns by undertaking additional conservation activities & improving & maintaining existing conservation systems. CSP provides financial & technical assistance to help land stewards conserve and enhance natural resources on their land.

# 2018-2019 USDA Conservation Incentive Programs

# **Regional Conservation Partnership Program – Chesapeake Bay Farm Stewardship and Preservation Program**

This project supports the Delaware, Maryland and Virginia agricultural sectors efforts to meet Chesapeake Bay TMDL milestone goals for nutrient and sediment reduction via promoting precision nutrient management practices and soil health practices. This program resulted in 8 new farm contracts, 3 in Culpeper, 3 in Madison and 2 in Orange counties. These contracts involve 5,801 acres.

This past year the Farm Service Agency (FSA) and NRCS were granted funding to implement an Emergency Conservation Program (ECP) to landowners who experienced flood damage on their property. Culpeper, Madison, Greene, and Orange counties all received eligibility for this funding. This funding helps producers to put their agricultural land back into production following the flooding events of 2018. Each county had a number of approved practices under this program to remove debris, smoothing areas that had been covered with sand or other debris, replacing fence that was removed during flooding, and planting areas pastures back into grass that had been devastated by the flood waters. Orange County received three contract approvals, Madison County received 14 approvals, Greene County received eight approvals and Culpeper received four approvals.

NRCS developed 27 farm conservation plans during the year as follows:

- Culpeper 4 (275.9 acres plus 1 high tunnel)
- Greene 7 (1,103.9 acres)
- Madison 9 (698.6 acres)
- Orange 5 (549.9 acres)
- Rappahannock 2 (60.8 acres)





Left photo: Cover crop planting of tillage radish, a growing trend to improve soil porosity. Right Photo: Stream crossing

### **TMDL and WQIF Implementation**

The District actively pursues implementation of Total Maximum Daily Load (TMDL) projects and options available from the State Water Quality Improvement Fund (WQIF) in the 5 member counties. As required under both state and federal laws, TMDLs establish water quality improvement thresholds for selected pollutants which have been identified through stream water sampling as exceeding state water quality standards for designated uses. The WQIF projects are designed to address many of the same pollutants and utilize the same remedies. Typically the TMDLs rely on federal funding from the Environmental Protection Agency directed through the Department of Environmental Quality while WQIF projects are funded by the Virginia General Assembly. The District seeks out grants from both state and federal sources to assist landowners with the implementation costs for projects that both protect and improve local stream health.

In addressing the TMDL Implementation Plans for the Upper Hazel River watershed in Rappahannock, Madison and Culpeper Counties, the Upper York watershed in Orange County, the Robinson River watershed in Madison County and the Upper Rapidan River watershed in Greene, Madison and Orange Counties, the Department of Environmental Quality provided a higher cost share rate than most cost share programs for stream protection practices. The State Cost Share Program with the 35 foot setback required under standard fencing specifications provides 80% cost share for stream exclusion practices, while producers in the TMDL area can receive 85% cost share. A flexible option under both programs is to have 10 foot setback and producers receive 50% cost share for septic system inspections, pumpouts, repair and replacement. There has been expanded outreach in the TMDL area through signs, meetings and mailings. Agricultural cost share allocated in the TMDL areas was included on page 11.

In Fiscal Year 2019 the District continued with the 2017 WQIF grant for an additional year which continued the residential septic system cost share programs of the TMDL watersheds. The results of all 5 of these grant projects are tabulated below by both project and by county.



A newly established herbaceous riparian buffer in a tributary to the Thornton River; Upper Hazel TMDL

Allocated Projects Liste	•	
Upper Hazel R	iver TMDL	
Practice	Number	Allocated
Septic inspection & pump out (RB1)	36	\$5,731.25
Septic repair (RB3)	12	\$26,005.00
Septic pump out & inspection (RB3R)	24	\$22,117.67
Septic replacement (RB4)	5	\$23,950.00
Total	77	\$77,803.92
Upper Rapidan I	River TMDL	
Practice	Number	Allocated
Septic inspection & pump out (RB1)	36	\$5,824.50
Septic repair (RB3)	8	\$16,241.84
Septic pump out & inspection (RB3R)	15	\$13,418.00
Septic replacement (RB4)	6	\$26,500.00
Septic replacement (RB4P)	1	\$5,000.00
Total	66	\$66,984.34
Robinson Riv	er TMDL	
Practice	Number	Allocated
Septic inspection & pump out (RB1)	16	\$2,700.00
Septic repair (RB3)	7	\$12,798.25
Septic pump out & inspection (RB3R)	9	\$9,112.50
Septic replacement (RB4)	1	\$6,400.00
Septic replacement (RB4P)	1	\$5,000.00
Total	34	\$36,010.75
Upper York Ri	ver TMDL	· · ·
Practice	Number	Allocated
Septic inspection & pump out (RB1)	19	\$3,285.00
Septic pump out & inspection (RB3R)	6	\$5,437.50
Septic replacement (RB4)	4	\$21,440.00
Total	29	\$30,162.50
Water Quality Imp	rovement Fund	,
Practice	Number	Allocated
Septic inspection & pump out (RB1)	127	\$21,028.00
Septic (RB2)	2	\$15,340.00
Septic repair (RB3)	43	\$94,501.00
Septic pump out & inspection (RB3R)	71	\$62,907.00
Septic replacement (RB4)	17	\$73,605.00
Septic replacement (RB4P)	4	\$24,032.00
Septic (RB5)	3	\$36,000.00
Total	267	\$327,413.00

Culpeper	County	
Practice	Number	Allocated
Septic inspection & pump out (RB1)	67	\$11,291.00
Septic (RB2)	2	\$15,340.00
Septic repair (RB3)	35	\$76,611.00
Septic pump out & inspection (RB3R)	56	\$52,393.00
Septic replacement (RB4)	13	\$59,104.69
Septic replacement (RB4P)	2	\$14,500.00
Septic (RB5)	1	\$12,000.00
Total	176	\$241,239.69
Greene C	ounty	
Practice	Number	Allocated
Septic inspection & pump out (RB1)	35	\$6,745.00
Septic repair (RB3)	8	\$16,487.50
Septic pump out & inspection (RB3R)	17	\$15,056.00
Septic replacement (RB4)	4	\$17,600.00
Septic replacement (RB4P)	2	\$9,532.00
Total	65	\$65,420.50
Madison (	County	
Practice	Number	Allocated
Septic inspection & pump out (RB1)	51	\$8,130.00
Septic repair (RB3)	10	\$17,613.00
Septic pump out & inspection (RB3R)	15	\$13,401.00
Septic replacement (RB4)	3	\$12,900.00
Septic replacement (RB4P)	1	\$5,000.00
Septic (RB5)	2	\$24,000.00
Total	82	\$81,044.00
Orange C	County	
Practice	Number	Allocated
Septic inspection & pump out (RB1)	51	\$8,672.00
Septic repair (RB3)	4	\$7,561.84
Septic pump out & inspection (RB3R)	15	\$13,825.00
Septic replacement (RB4)	8	\$38,340.00
Septic replacement (RB4P)	1	\$5,000.00
Total	79	\$73,398.84
Rappahannoo	ck County	
Practice	Number	Allocated
Septic inspection & pump out (RB1)	30	\$4,580.00
Septic repair (RB3)	13	\$31,272.00
Septic pump out & inspection (RB3R)	22	\$18,318.00
Septic replacement (RB4)	5	\$23,950.00
Total	70	\$78,120.00

# Education

### Youth Education Programs

The District sponsored or participated in the following events:

### 2018-2019 Envirothon

The District trained 2 Envirothon teams: 1 team at Eastern View High School in Culpeper County and 1 at Wakefield Country Day School in Rappahannock County. The Eastern View team earned a spot to the Area II Envirothon, competing against students from 15 localities. The Eastern View team placed 5th at the Area competition. The District helped to organize and execute the Area and State competitions. The District also coordinated 1 State-wide Envirothon training at Graves Mountain Lodge. Over 200 students and coaches attended the training.

### Meaningful Watershed Educational Experiences (MWEE)

Held on the banks of the Rose River at Graves Mountain Lodge in November 2018 and Spring 2019, 352 students from area schools engaged in hands-on activities to learn about stream-bottomdwelling macro-invertebrates, physical testing and chemical testing of water in the river and plant identification. Personnel from Culpeper SWCD, Virginia Cooperative Extension and Natural Resources Conservation Service as well as volunteers from the Old Rag Master Naturalists worked together to facilitate a variety of activities. Participating schools were: 144 students from William Wetsel Middle School in Madison, 125 seventh grade students from Prospect Heights Middle School in Orange, eighteen students from Epiphany Catholic School and 65 sixth grade students from Rappahannock County Elementary School.

#### **Presentations at Local Schools**

Hands on, SOL-based activities were coordinated at a number of local schools on conservation topics throughout the District including Culpeper Middle School, Eastern View High School, Farmington Elementary School, Yowell Elementary School, Ruckersville Elementary School, Emerald Hill Elementary School, Floyd T. Binns Middle School, Culpeper County High School, Epiphany Catholic School, William Monroe Middle School, William Wetsel Middle School, Pearl Sample Elementary School, Locust Grove Elementary School, Nathaniel Greene Elementary School, Waverly Yowell Elementary School and Wakefield Country Day School. Over 4,800 students within the District participated in a classroom activity and/or field days with District staff.



Students participate in the Area II Envirothon training



A 6th grade student from William Monroe MS shows a macroinvertebrate caught at the biological monitoring station at the Rose River MWEE

# Culpeper SWCD Announces New Federal Grant for Educational Programs

The Culpeper Soil and Water Conservation District was selected as a Bay Watershed Education and Training (BWET) grantee by the National Oceanic and Atmospheric Administration (NOAA). This three year grant brings \$250,000 into the District specifically to develop and deliver Meaningful Watershed Educational Experiences (MWEEs) for all sixth grade students in the five County District and also provide professional development programs for all instructors. The grant objectives include interdisciplinary activities with English, Math and Art, instructing students in developing relevant investigative questions to apply the Scientific Method and learn how to assess their schoolyard habitat for potential adverse environmental impacts and opportunities for improvements. Students will also be given the opportunity to write newspaper articles and have them reviewed by local newspaper editors. Through a Memorandum of Understanding with University of Mary Washington, the District intends to engage third and fourth year science education students to help deliver multiple programs to students.

The initial year of the grant began with teacher professional development in June 2018, with follow-up training planned throughout the grant. For the 2018-2019 school year the grant was delivered to sixth grade students at William Wetsel Middle School in Madison County in Fall 2018 and Spring 2019 and Rappahannock County Elementary School in Spring 2019. The grant will gradually scale up to include all sixth grade students in public schools in the Culpeper District's member counties by Year 3.

The Culpeper District has been acknowledged as the first soil and water conservation district on the East Coast to be selected for this grant.



# **Adult Education**

CSWCD staff made presentations to adults throughout the five-county area. The District sponsored or participated in the following events:

- Orange & Madison Field Days
- North Piedmont Research Station Field Day
- Central Virginia Beef Educational Field Day and Sale
- Orange-Madison Cooperative Field Day
- Virginia Forage and Grasslands Conference
- Madison County Chamber of Commerce Business Expo
- Madison Women's Club
- Madison Animal Health Clinic
- Realtor training
- Silver Club
- Culpeper Home & Garden Show
- VDOT Employee Fair
- Culpeper Fest
- County fairs
- Virginia Tech Sheep Producers' Meeting
- Heritage Day
- Fencing School
- Women in Ag meetings
- Woods and Wildlife Conference

The District worked with the Culpeper Star Exponent and the Lake of the Woods Association to publish an article promoting VCAP. The District worked with the Greene Record to publish an article on Gravel Road and Driveway Design and Maintenance.

The District hosted a Gravel Road and Driveway Maintenance workshop with the Department of Forestry and Piedmont Environmental Council. The workshop had 20 participants from Madison, Culpeper and Rappahannock Counties.

The District hosted a series of lawn clinics in partnership with the Virginia Cooperative Extension. Lawn Care workshops were performed in Culpeper, Madison, Orange, and Rappahannock Counties and later in Lake of the Woods. The lawn workshops had a total of 68 participants.

The District hosted a contractors' workshop in Culpeper to provide information on the permitting programs relevant to many common land disturbing activities such as single family homes, stream crossings, ponds and stream bank repairs. The workshop had 15 participants.

The District also submits regular articles to Culpeper Quarterly, a newsletter that is sent to every address in Culpeper County.

The District also sent letters to area churches about programs.

# **Staff Professional Development**

Continuing staff education is a priority at the Culpeper SWCD. This year the staff participated in training in the following areas:

Greg Wichelns, District Manager:

- Conflict of Interest Act Training
- Records Retention Training (Library of Virginia)
- DCR IT Security Awareness Training

JoAnn Neal, Administrative Assistant

- VACS Program Changes
- 2019 VACDE Annual Training
- 2019 Quickbooks Training with DCR
- 2019 Virginia Retirement System Annual Training
- 2020 Virginia Cost-Share Training

Richard Jacobs III, Conservation Specialist

- Urban Stream Restoration Lessons Learned Webinar
- Nutrient Management Program Update: Reporting
- VRS Retirement Training LFCC Workforce Development
- IT Security Awareness
- VCAP Bioretention and Permeable Pavement
- Urban Nutrient Management Program Update
- Inspecting Non-Standard BMPs
- Stormwater BMP Verification
- VCAP BMP Sizing and Plan Review
- Green Infrastructure and Urban Restoration Spotlight Webinar
- Bioretention Basin Webinar
- Fill Disposal Seminar
- DEQ BMP Database Webinar

Stephanie Rose DeNicola, Communications Specialist

- Project Water Education for Teachers (WET) Training
- National Association of Conservation Districts' Summer Meeting
- Woods and Wildlife conference
- Camp Woods and Wildlife

David Massie, Conservation Specialist

- VFGC Winter Forage Conference
- Northern Piedmont Crop Production Meeting
- VANTAGE Conference
- Emergency Action Plan Dam Meeting (Madison & Culpeper)
- Culpeper Producers Luncheon
- Orange Producers Luncheon
- Rappahannock Producers Luncheon
- Greene Producers Luncheon
- CFC Beef Producers Dinner Meeting
- Area II Spring Meeting
- JED Training PowerPoint about Soil and Water Districts
- 2020 Program Year Updates and Tracking Issues

# **Staff Professional Development**

- W. Spencer Yager, Conservation Specialist
  - Virginia Resource Training
  - Security Awareness Training
  - VASWCD Annual Meeting
  - VFGC Winter Meeting
  - VCE Crop Production
  - Va. No-Till Conference
  - Madison, Culpeper Watershed dam Emergency Action Plans
  - VCE Beef Production
  - Area 2 Annual Meeting
  - VACS 2020 program changes

Henny Calloway, Conservation Specialist

- DCR Security Awareness Training
- Driveway and Forestry Workshop for Landowners and Contractors
- Contractor Workshop: Everything You Need to Know about Environmental Permits

Amanda McCullen, Conservation Specialist

- Engineering Job Approval Review with DCR Engineer
- DCR Virginia Resources Training
- Engineering Job Approval Updates Webinar
- DCR Soil Science, Fertility and Crop Production School
- Nutrient Management Plan Writing School
- VFGC Winter Forage Conference
- DCR Computer Security Webinars
- VCE Northern Piedmont Crop Production Conference
- VANTAGE No Till Conference
- VASWCD Area II Spring Meeting
- VCE Sheep & Goat Producers Meeting
- FY20 VACS Training

Kendall Dellinger, Conservation Specialist

• DCR IT Security Awareness Training

# **Community Outreach**

CSWCD staff focused outreach efforts throughout the five-county area. Outreach activities included:

- **Internet Home Page:** The Culpeper SWCD maintains and regularly updates a web site with information about the District, our programs and educational activities plus links to other informative and educational websites at <u>www.culpeperswcd.org</u>.
- **Quarterly Newsletter:** The seasonal 12-page newsletter is sent to all landowners in our member counties that receive land use tax benefits.
- **Newspaper Articles:** The District routinely submits articles to local newspapers on educational events, conservation news and various BMP programs available throughout the District.
- **Display Booth:** The Culpeper SWCD maintains a mobile display of District programs and accomplishments. We take these exhibits to agriculture-expo events, educational conferences and annual meetings. Conservation publications are offered to the public free-of-charge.
- Literature racks: Racks with conservation related brochures are in county libraries and planning offices.
- **Community events:** District staff attend community events ranging from farm tours, farmer education programs, STEM/STEAM nights at local schools and other events when requested.

<u>College Scholarships</u>: Three students from the Culpeper District were awarded \$1,500 academic scholarships based on academic standing, demonstrated interest in conservation, leadership and involvement. For 2019, the District chose to recognize Culpeper County resident <u>Cassandra Patton</u> as our top candidate with the John H. Boldridge Academic Scholarship.

- Cassandra Patton graduated from Culpeper County High School with a 3.812 GPA. She will attend Virginia Tech in the fall, where she will major in Agriculture Education. (\$2,000 award)
- **Carter Lamm** graduated from **William Monroe High School** with a 3.88 GPA. He will major in **Natural Resource Conservation** at **Virginia Tech**. (\$1,000 award)
- Gene Flecker graduated from Orange County High School with a 4.3103 GPA. He will major in Sustainable Civil Engineering at Virginia Tech. (\$1,000 award)
- Lesley Morales-Sanchez graduated from Orange County High School with a 3.9 GPA. She will major in Biology at University of Mary Washington. (\$1,000 award)

All of the students received high accolades from teachers and other mentors for contributions above and beyond the requirements of the high school curriculum.

<u>Summer Camps:</u> Culpeper Soil and Water Conservation District chose six students to attend Camp Woods and Wildlife (formerly Forestry Camp).

- Jeremiah Adams (Madison)
- Alyssa Allgaier (Culpeper)
- Keegan Bosford, Everette Kennon and Clay Morris (Orange)
- Austin Clem (Rappahannock)

<u>Heritage Day:</u> On April 6, 2019, the District joined other private, State, and Federal natural resource organizations at Graves Mountain Lodge for the 4th Annual Heritage Day. Graves Mountain Lodge expanded the program to include wildlife exhibits, a benthic macroinvertebrates station and our soil tunnel exhibit. The primary focus of the event was to educate children (and some adults) about fishing, wildlife and natural resources. Over 200 people attended the event.

# **Grant Funded Community Outreach**

The Culpeper Soil and Water Conservation District has received two grants through the Chesapeake Bay Restoration Fund (also known as the License Plate Fund). One grant updated the District's popular Driveway and Small Lot Best Management Practices Guide, to include color pictures in an easy to use guide. The other grant is to expand our lawn soil testing program.

The goal of the lawn testing program is to better inform property owners on the use of fertilizer and other soil amendments for healthier lawn and cleaner water. Your purchase of a Bay plate would contribute towards funding similar grants across the Bay Watershed in Virginia. (https://www.dmv.virginia.gov/vehicles/#splates/info.asp?idnm=CB)

The District hosted a series of lawn clinics in partnership with the Cooperative Extension. Lawn Care workshops were performed in Culpeper, Madison, Orange and Rappahannock Counties and later in Lake of the Woods. The lawn workshops had a total of 68 participants.

To participate, landowners can visit their local Extension office or any Culpeper SWCD office for the sample box, form and voucher. You ship the sample and the Virginia Tech lab will bill CSWCD. The deadline to mail samples is November 15, 2019.

Over time many roads and driveways deteriorate for a variety of reasons: poor initial design or construction, poor maintenance, extreme weather or heavy traffic. In addition to costly repairs, many roads and roadside ditches drain into local streams delivering both sediment and gravel into stream channels. This is destructive to the stream, resulting in loss of stream bottom habitat and results in loss of channel capacity. Improved maintenance incorporating best management practices (BMPs) can save money and better protect local waterways.

Currently available to property owners is the Dirt and Gravel Road BMP Guide, published with funding from the Chesapeake Bay Restoration Fund. The guide can be found at the Culpeper Soil and Water Conservation District's website (<u>www.culpeperswcd.org</u>) under publications. Hard copies can be picked up from CSWCD as well as your local extension office or building office.

The District hosted a Gravel Driveway Maintenance workshop with the Department of Forestry and Piedmont Environmental Council. The workshop had 20 participants from Madison, Culpeper and Rappahannock Counties.



# Local Projects Funded through the Virginia Conservation Assistance Program (VCAP)

In 2018, the Virginia Conservation Assistance Program or VCAP received substantial funding to implement stormwater and landscaping practices on non-agricultural lands. Funding was secured from the Environmental Protection Agency's Chesapeake Bay Program with assistance from the Virginia Department of Environmental Quality and the grant was administered by the Virginia Association of Soil and Water Conservation Districts. The District helped two landowners secure \$13,551.27 of funding assistance to convert 6,000 square feet of poorly vegetated lawn to native plantings and treat 3,142 square feet of impervious surfaces. These landowners were from Culpeper and Greene Counties.

#### Rainwater Cistern and Meadow in Culpeper County

Working with the landowner, a meadow was established over the drain field and converts 5,000 square feet of sparsely vegetative lawn to native plants. Also the landowner installed four 250 gallon cisterns to treat 1,400 square feet of roof. (pictures below)

#### Dry Swale and Slope Stabilization in Greene County

In July 2018, the District's second Dry Swale practice was completed under the Virginia Conservation Assistance Program. The Dry Swale is 60 linear feet long and treats runoff from the driveway and roof to minimize erosion. Two large ponding areas with native plantings were used to treat the 1-inch volume of runoff and to further slow runoff.







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# **2018** Conservation Awards

The District's Annual Conservation Awards Dinner was held on November 8, 2018 in Culpeper to honor residents who have demonstrated leadership in the stewardship of local soil and water resources.

The **Bay Friendly Farm Awards** are given to one farm in each county of the Soil and Water Conservation District that is exemplary in its protection of the state's soil and water quality, with particular emphasis on nutrient management. The recipients of the Bay Friendly Farm Awards were:

- Culpeper County, *Rillhurst Farm* (#1 below)
- Greene County, Calvin Powell (#2 below)
- Madison County, J.C. Smith Farm Partnership (#3 below)
- Orange County, *Old South Farm* (#4 below)
- Rappahannock County, *Thornton River Farm* (#5 below)

The **Conservationist of the Year Award** is given to an individual or individuals who demonstrate outstanding leadership, hard work and investment in conservation practices that protect the quality of soil and water in the Culpeper District and exhibit strong advocacy to others for conservation. This year's award was presented to **Robert Wilbanks** for exemplary conservation practices in **Orange** County and for support to District outreach efforts. (#6 below)

The following pictures are on page 4 under the Table of Contents.

The 2018 Forestry Award was given to Bradford Farms of Orange County.

The 2018 Educator of the Year was presented to Brandon Allen Fincham of Culpeper Coun-

ty.

The 2018 Wildlife Habitat Award was given to William W. Sanford of The Preserve at Indian Trace of Madison County.



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# **Board of Directors**

Soil & Water Conservation District directors are the local, legislatively mandated protectors & managers of natural resources. They are not public employees & receive no salary. Elected every four years in the general election, they work as volunteers to identify local conservation needs, represent local citizens in conservation issues, educate others about conservation issues & programs & work with local, state & federal agencies to resolve conservation problems. In the course of their work with the District, directors develop a working knowledge of the environmental sciences, agriculture, engineering & local state & national legislative processes. They also find it useful to develop skills such as leadership, personnel management, public speaking, negotiation & fiscal management.

#### Lynn Graves, Chair

Lynn Graves has been a Director representing Madison County since 2005 & currently serves as Chairman of the Board. Mr. Graves graduated from Virginia Tech in 1995 & was a member of the National Agricultural Fraternity, Alpha Gamma Rho. He has been a member of the Virginia Apple Growers Association Board & is currently the chairman of the Virginia State Apple Board. He also is serving on the Virginia Agribusiness Council Board & was the chairman in 2016. Mr. Graves & his family own

& operate Graves Mountain Lodge & Farm, which is located on the Rose River. The Lodge consists of 55 motel rooms & 15 cabins & the farm consists of crop fields, pasture for 100 head of cattle & 70 acres of apple orchards. A cannery is also operated by the Graves family which produces jams, jellies & apple cider, along with the favorite apple butter. The Graves Mountain hosts numerous festivals during the year, including Music Festival, Apple Festival, Heritage Day (fishing for kids) & more. The Farm does school tours for 7,000 school children annually to promote agriculture. For the past 16 years the Farm has also run aquatic programs that teach children about watersheds, rivers & ponds. Mr. Graves & his wife, Tricia have 2 children, Amelia & Cole. The Graves family have been living in the Syria area for over 5 generations.

#### Philip Morris, Vice Chair

Philip Morris was elected as a Greene County Director in November 2015 & began his term on January 1, 2016. He has been married to Sandra since 2006. He graduated from West Virginia University in 1964 with a degree in Civil Engineering. After serving in the US Navy he joined the Navy Oceanographic Service conducting hydrographic surveys of shorelines in locations around the Pacific & Atlantic Oceans for military operations. He also served as civil engineer with USDA Soil Conservation Service for three years building large



earthen dams under Public Law 566. In 1970 he became manager of the Great Lakes Water Measurement Program & the National Tidal Network at NOAA. After several positions & 21 years of service, Mr. Morris retired from NOAA in 1997. He has gained great insight into the agriculture world by visiting his wife's family, who farm 1500 acres in central Ohio.



### **Thomas O'Halloran, Treasurer**

Mr. O'Halloran was born & raised in Culpeper & graduated from Culpeper County High School in 1963. He received a degree in engineering from Virginia Tech and owns Glengary Tree Farm in Rixeyville. The farm was originally a cow/calf operation but, under the advice of his father, he started planting Christmas trees in 1978. Mr. & Mrs. O'Halloran have a son & a daughter plus 4 grandchildren & a great grandchild. His hobbies include motorcycle riding & reading. He is chairman of the Ag/Forestal Advisory Committee & is a member of the Culpeper County Economic Advisory Committee. He is on the Extension Leadership Council & is a director of the Virginia Farm Direct Marketing Association, past presi-

dent of the Virginia Christmas Tree Growers Association & past director of the National Christmas Tree Growers Association. In 2002, the State Capitol Christmas tree at the Governor's mansion was from Glengary. In 2011, Mr. O'Halloran was appointed to represent conservation districts on the Rappahannock River Basin Commission & in 2016 was appointed to its Executive Council.

### <u>Mike Biniek</u>

Mike Biniek & Susan Hoffman left their urban life to fulfill their dream of creating a model community for sustainable living. Belle Meade has grown into what it is today because of their flexible, nurturing patience as they developed the different components of their holistic vision. Mike, B.S. in Biology, is a lifelong student of nature & wildlife. He practices his ideology of creating a more sustainable, healthy planet as he cares for the animals, plants & community of Belle Meade. Mike also serves Rappahannock County as a member of the Planning Commission.

### J. Robert Brame III

Bob Brame grew up on a working farm in western Kentucky, but as Wendell Berry observed, like so many farm youths he was lured into the big city & away from the farm. After almost 50 years practicing law in Richmond, Washington & Charlottesville, in 2014 he retired & swapped Kentucky farmland for Jordan Farm just outside Gordonsville. He has worked closely with Culpeper SWCD staff & NRCS to implement & expand on the conservation vision he inherited from his Father. With Culpeper & NRCS assistance & advice he is

currently implementing an array of conservation practices, including stream fencing, cattle waterers, rotational grazing, eradication of invasives & replacement of KY 31 fescue with novel endophyte fescue & native warm season grasses. He has yet to hear the remembered Whip-poor -will calls or see dung beetles of his youth, but this Spring he heard the first Bobwhite call on Jordan Farm in 15 or more years. He & his wife, Jane, remain hopeful that their grandchildren will have similar farm experiences. Bob was elected a Greene County director in 2007 & 2011 & an Orange Director in 2015.

#### **Robert Bradford**

Mr. Bradford was elected as a Director in 1996 after serving as an Associate Director for three years. He lives in Orange County with his wife Virginia & his daughter Stella. He owns and operates a beef cattle operation & has been a building contractor specializing in renovations. He is very supportive of







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BMPs & water quality & has an active roof water collection system on his farm. Mr. Bradford's activity as Director includes Technical Committee Chair.

#### Andrew Campbell

Andrew Campbell began his term as an elected Director representing Culpeper County in January 2012. Andrew was raised in Culpeper on Croftburn Farm. While growing up he was active in 4-H & helped on his family's black angus & sheep farm. He received a Bachelor's degree in American Studies & Economics from Vanderbilt University in Nashville, TN. After college he worked in a law firm as well as teaching skiing in Colorado before returning to Culpeper. He enjoys participating in triathlons.

#### Laura Ann Stevenson Campbell

Mrs. Campbell was an elected Director from 1990 through 2011, serving on several committees. Though now 'retired', she ran long-established herd of Black Angus cattle, as well as sheep, at Croftburn Farm in Culpeper County. Her daughters Meg & Desy carry on the tradition. Mrs. Campbell received a BA from Smith College & an MLS from Villanova University. She studied botany at The Barnes Arboretum & The Morris Arboretum. For a long while, as a resident of Radnor Township, PA, she was ac-

tive in the League of Women Voters, as well as, for a short while, in Culpeper County. She was a member of the local Culpeper Farm Bureau & a group called The Young Farmers. Her interests include trees, open space, farming & land use. Laura is also an avid traveler, photographer & gardener. Laura Campbell served at the Culpeper Library with Miss Crimora Waite on a long -time regular basis, using her Master's in Library Science skills & giving our small town public library a boost in status of credibility. Locally, in 1998, she received the Northern District Outstanding Forage Producer Award in Culpeper County. In April of 2005, she became a "Culpeper Colonel" recognition Culpeper County Citizen Service Award from the Culpeper County Board of Supervisors. The following year, 2006, Mrs. Campbell was recognized by the Virginia Association of Soil & Water Conservation Districts with the Watershed Connections Award. In 2010, the Culpeper County Chamber of Commerce presented the Agribusiness Award to the Campbell family. Mrs. Campbell became an Associate Director of the Culpeper Soil & Water Conservation District Board in January 2012.

#### Dr. Stephen R. Hill

Stephen Hill was elected as a Director representing Madison County in 2015. He previously served as Associate Director for Madison County. On the CSWCD Board he serves as Chair of the Legislative Committee, which helps the Virginia Legislature address soil & water conservation issues. On his Madison County cow/calf operation he established clean water & forest best management practices to support his goal of year-round grazing. Dr. Hill earned a Master of Public Policy degree from the University of Michigan & a Ph.D. from the University of Maryland.







### L. Brad Jarvis

Brad Jarvis is the Agriculture Extension Agent for Virginia Cooperative Extension in Madison County. He received his degrees in Animal Science & Extension Education from Virginia Tech in 1987. Over his 30 year Extension career, he has worked with farmers, agri-business & community leaders to disseminate researched based information & developed educational programs in agricultural production & sustainability with an emphasis on nutrient management plan-

ning, cover crops, integrated pest management, commercial fruit production, forage production, local food systems & community strategic planning. Mr. Jarvis is an Associate Director of the Culpeper Soil & Water Conservation District Board, Madison Young Farmers, Madison Farm Bureau Board, Virginia Forage & Grassland Council, Central Virginia Cattlemen Association & National Association of County Agriculture Agents.

### Warren Lee

Mr. Lee was appointed an Associate Director representing Orange County in 2002. He grew up on a wheat & cattle ranch in Montana. He earned his degree in agricultural engineering at Montana State University in Bozeman & spent his entire career in the field of resource conservation, holding NRCS positions in Montana, Washington State, Colorado & Hawaii. In 1993 Lee moved to Washington, D.C. to become the Director of the Conservation Op-

erations Division. In the mid 90's he was appointed to head a team to develop wetlands policy. The Wetland team was later combined with the Watershed Division, which Lee directed for three years. When Congress passed the National Drought Policy Act, Lee traded his flood-fighting responsibilities to become the National Drought Policy Coordinator & the Director of the Resource Inventory Division. Lee retired in 2001 & lives with his wife Barbara in the Lake of the Woods community in Orange County. He enjoys spending time with the grandchildren & on the golf course with his golfing buddies.

### **Steve Morris**

Mr. Morris was appointed as an Associate Director in 2006 & became an appointed At-Large Director in December 2013. He was born & raised in Greene County & graduated from William Monroe High School in 1966. From 1974-1990 he worked in quality control on the construction of nuclear power plants. From 1991-2009 he raised beef cattle on 165 acres. All of the streams on the farm are fenced out from livestock & some acres are in CREP. He received the 2000 Bay Friendly Farm Award from CSWCD. His farm is now used for

hay production. Mr. Morris & his wife, Sharon, have one daughter. In his spare time he enjoys hunting, fishing, golf & muscle car restoration. Mr. Morris was appointed to represent CSWCD on the Rivanna River Basin Commission.

### Dr. Monira Rifaat

Dr. Rifaat was appointed as an Associate Director in 2002 & became a Director representing Rappahannock County in February 2003. She has since been reelected to continue to represent Rappahannock County on the Board of Directors. Since 1987 Dr. Rifaat has owned and operated a cow/calf operation on Manor Farm in the foothills of the Blue Ridge Mountains, Sperryville, VA.

The cattle are managed by a rotational grazing program and a health program









based on strict grass grazing. Manor Farm has completed several conservation projects protecting most of the streams on the farm with stream fencing and the planting of hardwood buffers. The entire farm is placed in a conservation easement with the Virginia Outdoor Foundation. The Culpeper SWCD recognized the conservation practices on Manor Farm in 1992 and 2013 by presenting Dr. Rifaat with the Clean Water Farm Award. Dr. Rifaat is the chair of the Legislative Committee and has served as Chair of the District and Area II.

### **Robert Runkle**

Mr. Runkle was elected Director representing Greene County in 2001. He resides on & operates the Greene County farm that has been in his family for over 200 years. He graduated from James Madison University with a BS in Social Studies Education & was a teacher for 31 years. Mr. Runkle was on the committee which prepared the original Greene County Comprehensive Plan, served on the Planning Commission, has been on the Board of Zoning

Appeals since 1993 & is a member of the Greene County Farm Bureau Board of Directors. He won a conservation award from the CSWCD in the 1980's & has employed numerous conservation practices on his grazing land over the years. Mr. Runkle & his wife Janet have two daughters. His hobbies include travel & reading. Mr. Runkle serves as Chair of the Personnel Committee.

#### Sarah Weaver Sharpe

Sarah Weaver Sharpe joined the CSWCD Board as an Associate Director in July 2016 & assumed the role of the Appointed Extension Agent Board member in January 2017. She currently serves as the Greene County Agriculture & Natural Resources Agent with a focus in local foods & horticulture. Sarah grew up in Madison County on her family's pork, beef, hay & row crop farm. She is very passionate about helping producers start businesses & break into the local foods movement as well as helping to educate consumers about how food is

grown & the production methods utilized. Sarah lives in Louisa County with her husband, daughter & two dogs.





# Staff

# **Greg Wichelns**

District Manager Greg Wichelns joined the District in January 1998 as the District Manager. He earned a BS in Ecological Agriculture from Evergreen State College & an MS in Horticulture at Washington State University. Previous to employment with the CSWCD he served as Greenhouse Facilities Manager & Staff Horticulturist for the Institute of Biological Chemistry at Washington State University.

### JoAnn Neal

Administrative Secretary JoAnn Neal started working for the District as Administrative Secretary in May of 2003. She was born & raised in Cleveland, Ohio. She developed a love of the land & nature spending summers on her grandparents' farm in the Ohio countryside. JoAnn studied Business Administration at Germanna Community College & underwent extensive training in computer programming & systems analysis with IBM. She worked for many years as a Programmer & Systems Analyst with Rental Uniform Service in Culpeper & the Culpeper Farmer's Coop. She also served as the Database Administrator for Communications Corpo-

ration of America in Boston, Virginia & was the Office Manager & Administrative Assistant for the Culpeper Country Club. In 1985 she worked with her husband Greaner to turn their interest & experience in organic gardening into the Boston Spice & Tea Company, a small business growing & selling culinary herb products. JoAnn's hobbies include kayaking, hiking & just "being in the outdoors." They have two daughters, Carly & Logyn & two grandchildren. In 2014 JoAnn was recognized along with other District staff as Conservationist of the Year by the Virginia Soil & Water Conservation Society.

### **Richard Jacobs III**

Conservation Specialist Richard Jacobs joined the Culpeper SWCD in January of 2005 as a Conservation Specialist. He attended Virginia Tech & graduated with a Bachelor of Science in Biological Systems Engineering. He is a licensed professional engineer & certified stream monitor with Save Our Streams. He has a wonderful wife & two beautiful daughters. He is an Eagle Scout & enjoys camping, hiking & caving with his family.

### **Stephanie DeNicola-Turner**

Education & Information Coordinator Stephanie Rose DeNicola joined the Culpeper SWCD in January 2005. She was born & raised in Queens, NY & moved to the area in 2000 to serve as an AmeriCorps Promise Fellow in Washington, DC. Stephanie earned a B.A. in English from Mansfield University of Pennsylvania. Stephanie has worked at local non profit organizations that address volunteering, homelessness & domestic violence. In addition, Stephanie has trained for & partic-

ipated in 2 marathons for the Arthritis Foundation: the 2001 Honolulu Marathon & the 2002 Bermuda Half-Marathon, while raising over \$10,000 combined for the organization. In her spare time, she is a patient success story for Johnson & Johnson. In June 2011 Stephanie was recognized as a Certified Watershed Educator by the Virginia Departments of Education & Environmental Quality. Stephanie lives in Albemarle County with her husband & daughter.







# W. Spencer Yager

Spencer Yager joined the District in September 2005 as a Conservation Specialist. Spencer was raised on his family's dairy farm. He graduated from Orange County High School, where he was very active in FFA & served as the regional vice president. He worked at Orange Madison Co-op & on the family farm while

in high school & college. He graduated from North Carolina State University with an Associate's Degree in General Agriculture. Spencer worked on the family dairy & for a lumber company prior to working at the District. Spencer, his wife & their three children live in Somerset on a part of his old family farm. In his spare time, Spencer enjoys camping, hunting, fishing & watching Virginia Tech games.

#### **James Henshaw**

James Henshaw joined District in October 2005 as a District Representative. Jimmy was born & raised in Greene County. He received The Governor's Model Clean Water Farm Award in 1992. He spent 4 years in the Air Force before marrying his wife of 30 years, Gayle. His farm currently has beef cattle, although he has had hogs & sheep in the past. He has fenced all of the streams on the proper-

ty he owns & most of the streams on the land he rents. He is a past member of Culpeper SWCD board, Greene County School Board, Greene County Board of Supervisors & the Greene County Social Services board. Jimmy & his wife enjoy spending time with their 3 daughters & grandchildren

### **David Massie**

David joined the District in October 2006 as a Conservation Specialist. David was raised on his family's beef cattle farm. He was born in Charlottesville & raised in Rappahannock County. He graduated from Rappahannock County High School, where he was a 4-H All Star & an Eagle Scout. He graduated from Roanoke College in May 2006 with an Bachelor's Degree in Environmental Policy. David has worked on the family farm since he was 13. The farm is a 5th generation commercial opera-

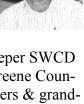
tion that has installed CREP & various Best Management Practices. While in college, David interned at Piedmont Environmental Council & Mill Mountain Educational Park in Roanoke. In his spare time, David enjoys fishing, canoeing & working on the family farm.

#### **Henny Calloway**

Henny joined the District in April 2012 as a Conservation Specialist. She graduated from Virginia Tech with a Bachelor's degree in Animal Science. She has worked on the family horse, cattle & crop farm for many years. When she is not performing District tasks, she enjoys working on the farm or with her animals.

#### **Amanda McCullen**

Amanda McCullen joined the District in September 2016 as a Conservation Specialist. She grew up in Fauquier County on her family's farm & enjoyed participating in 4-H while growing up. She graduated with her Bachelor of Science in Biology from Christopher Newport University, with minors in Chemistry & Psychology. After college she volunteered at the Smithsonian Conservation Biology Institute in Front Royal, where she worked with cheetahs, black-footed ferrets & several











species of endangered birds. Amanda joined Culpeper SWCD with 2 years of experience working for the Lord Fairfax SWCD in the Shenandoah Valley. She is an amateur birder, who enjoys hiking, skiing and time with friends and family.

### Kendall Anderson Dellinger

Kendall Dellinger joined the Culpeper SWCD in May of 2018. Kendall was born & raised in Culpeper on her family's beef cattle farm. She graduated from Culpeper County High School where she was active in 4-H & FFA. Kendall graduated from Virginia Tech with a Degree in Animal Agriculture & was an active member of Block & Bridle & was on the collegiate Live-



stock Judging team. She has worked with the Virginia Dept. of Agricultural & Consumer Sciences (VDACS). Kendall & her husband recently purchased a farm in Orange County & are renovating the farmhouse in their spare time.