

# Virginia Agricultural Council

# ANNUAL REPORT

Fiscal Year Ending June 30, 2022

## **Virginia Agricultural Council Annual Report**

#### **PUBLICATION YEAR 2022**

#### **Document Title**

Virginia Agricultural Council Annual Report

#### **Author**

Virginia Agricultural Council

## **Legislative Mandate**

Va. Code § 3.2-2904

#### **Executive Summary**

Summarizes the management and expenditure of the Virginia Agricultural Foundation Fund for programs of agricultural research, education, and agricultural services to strengthen and promote the best interests of agriculture in the Commonwealth. The report contains the annual financial statements of the Agricultural Council for the fiscal year ending June 30, 2022.

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Tscharner D. Watkins, III Chair

Cecil E. Meyerhoeffer, Jr. Vice Chair



Jason O. Bush Secretary

Kendra Brown Shifflett. Executive Director

November 30, 2022

The Honorable Glen Youngkin Governor Commonwealth of Virginia Richmond, Virginia 23219

#### Dear Governor Youngkin:

The Virginia Agricultural Council is pleased to present its annual report for the fiscal year ending June 30, 2022. The annual report submission was delayed to accommodate prior adjustments to the 2020 grant cycle dates.

The members of the Council appreciate the opportunity to serve the agriculture industry in the Commonwealth of Virginia.

We trust you will find the report informative and rewarding, and we recognize the diversity of agricultural interests in the state that contribute greatly to the Commonwealth's economic prosperity.

Sincerely,

VIRGINIA AGRICULTURAL COUNCIL

Tscharner D. Watkins, III

Chairman

MEMBERS OF THE VIRGINIA	A AGRICULTURAL COUNCIL
Mr. Keith M. Dunn Oak Hill Farms 21100 Peters Bridge Road Yale, VA 23897 Commodity: Cotton Keith.oakhillfarms@gmail.com	Mr. Jason O. Bush Bush Farms 471 Brickchurch Circle Castlewood, VA 24224 Commodity:Cattle, Tobacco cowmanjob@yahoo.com
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Ms. Sarah Jane Thomsen 39 Malvern Avenue Apt. 6 Richmond, VA 23221 Commodity: Agricultural Education sthomsen@statefairva.org	Mr. Mark Newbill Forest Lake Farm & NEWBILT Construction 105 Darlington Drive Rocky Mount, VA 24151 Commodity: Dairy mnewbill@embarqmail.com
Ms. Kimberley H. Nixon Co-Owner, Glenmary Farm LLC and Western View Plantation LLC 21496 River Road Rapidan, Virginia 22733 Commodity: Cattle, Turkey and Grain khnixon1231@gmail.com	Ms. Lynn Rush St. Clair Swover Creek Farms 4176 Swover Creek Road Edinburg, VA 22824 Commodity: Direct Marketing swover@shentel.net
Ms. Rosalea R. Potter 3673 Big Hill Road Lexington, VA 24450 Commodity: Cattle Riley.buffalocreekbeef@gmail.com	Mr. Tscharner D. Watkins III 3907 West Franklin Street Richmond, VA 23221 Commodity:Nursery Stock tscharnerwatkins@comcast.net
Mr. Alan Worrell Worrell Family Farms 879 Sunrise Drive Austinville, VA 24312 Commodity: Vegetables Alanworrell@ymail.com	

VIRGINIA AGRICULTURAL COUNCIL <u>EX-OFFICIO MEMBERS</u>					
Dr. Robert Corley III Interim Dean, College of Agriculture Virginia State University 100 Owens Hall Box 9081 Petersburg, VA 23806 rcorley@VSU.edu	Joseph Guthrie Virginia Dept. of Agriculture and Consumer Services 102 Governor St. Richmond, VA 23219 Joseph.guthrie@vdacs.virginia.gov				
Dr. Alan Grant Dean, College Of Agriculture VPI & SU 104 Hutcheson Hall Blacksburg, VA 24061 algrant@vt.edu					

# **Purpose of the Council**

Agriculture is Virginia's largest industry, with an economic impact of \$70 billion annually, and it provides more than 334,000 jobs in the Commonwealth.

The Pennies for Progress Act (Act) was passed in 1966 by the Virginia General Assembly to establish the Virginia Agricultural Council (Council) to administer the objectives of the Act. The current Agricultural Council Law (Virginia Code §3.2 – 2900 et seq.) permits financial assistance and support for agricultural research and other services. The Council is empowered to all such measures as will assist in strengthening and promoting the best interests of agriculture in the Commonwealth.

The Council is directed by 18 members, 15 of whom are engaged in farming and are appointed by the Governor. Insofar as practical, each of the members should be engaged in the production of a different agricultural commodity.

The General Assembly specified in the initial enabling legislation that it is in the public interest that assessments be levied upon certain agricultural supplies used by farmers. Monies are received from one-half cent per gallon of the state gasoline tax refund made on motor fuel used for agricultural purposes; a five cents per ton levy on lime sold; a 25 cents per ton levy on fertilizer sold, with five cents per ton for Virginia Agricultural Council use; a seven cents per ton levy on feed; and 3/10 of one percent of gross sale receipts from lawn and turf seed with 50 percent to the Council. In 2008, the General Assembly established the Seed Fund (Virginia Code §3.2-4004). Monies received for this fund are administered by the Council for the exclusive funding of lawn and turf research. The Council is also authorized to accept gifts and grants.

The Council accepts requests for financial assistance from any organized group within, or serving, Virginia's agriculture industry. This includes suppliers, farmers, marketers, extension centers, colleges, and universities.

The Council's philosophy on selecting projects for support dictates that projects should exhibit the capabilities of yielding timely results that are applicable and useful. Studies should address current or foreseeable problems and interests, and should have the potential to provide benefits to a reasonably broad spectrum of agricultural needs. All projects will be considered; however, projects should show promise with results that can be applied in a reasonable timeframe.

There are five basic considerations, as follows:

a. Importance of the project to Virginia's agricultural economy.

- b. Recognition by the public or the Council of the project's importance.
- c. Availability of other funds from industry, commodity groups, governmental agencies, or private individuals in support of the project.
- d. Availability of personnel and facilities to conduct the project.
- e. Ability of the group, organization, or agency to execute the proposal.

Council members meet at least twice each year; once in the spring, and again in the summer. In FY 2022, the summer meeting was not held due to COVID-19. To be considered for funding, principle investigators complete a preproposal outlining the objectives of their proposal, and selected applicants are invited to submit full proposals. New project proposal requests are considered at the spring meeting.

The Council approves project funding for one fiscal year (July 1 - June 30). Continued financial support for the second year depends upon reports of progress, availability of funds, and priority in relation to other requests. Due to COVID-19, the project period was adjusted to September 1 through August 30 for the FY 2021 funding cycle. The standard funding cycle was resumed in FY 2022.

The Council's grant award requires the researchers to submit final reports summarizing their research and results, and more importantly, to disseminate the results to industry. Researchers will present at conferences, publish results and summaries in industry newsletters, or work with cooperative education and stakeholder groups, such as the Virginia Turfgrass Council, to share the information with Virginia's agricultural producers.

# **GRANTS APPROVED BY THE COUNCIL FOR FISCAL YEAR 2022**

Last Name	Project Name	Amount
Persia	Evaluation of Dietary Particle Size on the Growth Performance and Litter Moisture of Turkey Hens Raided without Antibiotics	\$ 20,000
Maroof	Development of High protein with Desirable Oil Soybean Cultivars	\$ 12,000
Zhao	Genetic Characterization of Cantaloupe Germplasm that Produces Fruits Without	\$ 8,000
Ovissipour	Enhancing Soybean Meal Demand and Market by Developing Soy Meal Based Aquafeeds	\$ 23,000
Oakes	Validating the Use of Aerial Imagery to Apply Nitrogen in Winter Wheat	\$ 15,000
Li	Developing GreenTram, a Low-Cost, Autonomous Device for Monitoring Crop Health in the Greenhouse	\$ 16,000
Dias	Exploring Vaginal Microbiome and pH Fertility Markers for Beef Cattle	\$ 15,500
Estienne	Mitigating the Negative Effects of Heat Stress on Reproductive and Lactation Performance in Sows	\$ 13,000
Wilson	Supplementation of Tannin-Rich Peanut Skins to Alleviate Fescue Toxicosis in Grazing Beef Cattle	\$ 11,446
Haines	The Hunt for a Bull Fertility Marker: Characterization of Phosphatidylserine (PS) in Bovine Sperm and its Role on Fertilization	\$ 14,500
Pancini	Impact of Early Life Nutrition and Supplementation of a Yeast Deprived Product in Beef Calves' Stress Response, Growth and Development	\$ 16,000
Ferreira	Comparing the Nutritional Effects When Feeding Virginia- Grown Grass Hay or Alfalfa Hay within the Rumen of Dairy Cattle	\$ 18,500
Balota	Helping Wheat and Soybean Breeding with More Accurate Selection Technologies	\$ 15,000
Stewart	Development of a Novel Technique to Synchronize and Breed Ewes Using Ram Seminal Plasma	\$ 15,000
Taghavi	Identify the Beneficial Endyphytes from Turmeric Plants	\$ 20,000
Welbaum	Using natural Medicinal Plant-based Supplements to Maintain Animal Health to Reduce Reliance on Antibiotics	\$ 22,000
Cockrum	Single Use Bio-Based Plastics: Impact on Rumen Function and Feed Efficiency In Diary Heifers	\$ 19,000
Abaye	Introducing Mungbean as an Alternative of Rotation Crop to Tobacco in Virginia	\$ 17,000
	Total	\$290,946

# **SECOND YEAR PROJECTS FY 2022**

Last Name	Project Title	Ar	nount
Booher	Virtual Fencing to Enable Stream Exclusion Without a Physical Fence	\$	2,000
Derr	Control of New Invasive Weed Species in Cool- and Warmseason Turfgrass	\$	11,830
Ferreira	Assessing the Growing-degree-days to Optimize Harvesting Time of Small Grains and to Maximize Digestibility of Silage to Feed Dairy and Beef Cattle	\$	9,000
Rideout	Maximizing Virginia Pumpkin Production Through Increased Understanding of Disease and Heat Tolerance	\$	16,250
Shortridge	Improving Water and Nutrient Use Efficiency in Virginia Cropping Systems	\$	10,000
Snyder	Seaside Aquaculture: Improving Hard Clam Broodstock	\$	21,546
Stewart, R	Should Virginia Vineyards Bulldoze their Topsoil?	\$	6,065
Williams	Determine The Growth Promoting Potential of Previously Undescribed Bacterial and Fungal Helpers to Support Soybean Yield; & Resilience to Environmental Variation	\$	11,541
Yin	Innovative Packaging for Virginia Hops: Strategies to Preserve Premier Flavor and Physical Characteristics	\$	7,000
Zhang, B.	Continue Developing Public, Roundup Ready® Soybean Varieties	\$	12,181
Zhang, X	Land Application of Exceptional Quality (EQ) biosolids for Improved Soil Health and Drought Resistance of Tall Fescue Lawn	\$	11,000
Zumbaugh	Determining the rate of ergot alkaloid degradation in ensiled toxic endophyte infected tall fescue during long-term storage	\$	11,845
Total		\$	130,258

## **SEED FUND PROJECTS FY 2022**

Last Name	Project Title	Amount
Askew	Characterization of Targeted Weed Control Technologies in Managed Turf	\$ 14,000
McCall	Evaluation of Blue Grama Cultivars as a Warm-Season Option for Low-Input Turfgrass in Virginia	\$14,000
Del-Pozo	Monitoring Annual Bluegrass Weevil (ABW) and the Use of Remote Sensing in Virginia Turfgrass Golf Courses	\$ 14,000
	Total	\$42,000

# **PROJECTS COMPLETED FY 2022**

Project Number	Title
Number	
732	Can Sericea Lespedeza Pellets Reduce the Effects of Fescue Toxicosis?
735	Investigating the Effect of Dexamethasone on Productivity, Immune Function, and Behavior in Dystocic Periparturient Dairy Cattle
736	Edible Landscape Species E-Book Publication
737	Cultivars Trials of Alternative Crops for Hydroponic Production in Virginia
738	Improvement of Colostrum Production in Dairy Breeds via Photoperiod Manipulation
745	Defining the Best Bull to Cow Ratio to Maximize Pregnancy Rates and Economic Return after Resynchronization of Estrus in Beef Cow-calf Operations
747	Virginia Hemp Production and Management Trials
749	Using Ethylene Inhibitor and Polyamine to Prolong Tall Fescue Sod Shelf Life
751	Alternatives to Glyphosate for Renovating Mixed Vegetation on Farmland and Industrial Sites
752	Virtual Fencing to Enable Stream Exclusion Without a Physical Fence
756	Improving the Efficiency of Embryo Production and Transfer in Dairy and Beef
757	Herbicide Tolerance of Industrial Hemp for CBD Production
758	Optimizing the Soil Warming Properties of Turf Blankets
759	Spray Application Water Quality
760	Laying the Groundwork for Insecticide Resistance Management for Corn Earworm
762	Evaluation of Butyric Acid in Broiler Diets Raised Without Antibiotics
764	Developing an Open Source Sensor as a Strategy to Identify and Decrease the Effects on Growing Animals Grazing Fescue Toxic
766	Unmanned Aerial Vehicles Based Herbicide Spray Applications in Diverse Cropping Systems

767	Expanding the Adoption of Targeted Pesticide Applications Using Drones and GPS Sprayer Technology
771	Protein and Mineral Supplementation on Digestibility, Performance and Gastrointestinal Parasitic Load in Sheep Consuming Low Quality Hay
774	Innovative Packaging for Virginia Hops: Strategies to Preserve Premier Flavor and Physical Characteristics
775	Continue Developing Public, Roundup Ready® Soybean Varieties
793	Impact of Early Life Nutrition and Supplementation of a Yeast Deprived Product in Beef Calves' Stress Response, Growth and Development
794	Evaluation of Dietary Particle Size on the Growth Performance and Litter Moisture of Turkey Hens Raided without Antibiotics
799	Genetic Characterization of Cantaloupe Germplasm that Produces Fruits Without Artificial Pollination

Financial Statemen	nt for				
July 1, 2021 - June	30, 2022				
Revenue and Expe	nditures				
Cash balance - Jun	ne 30, 2021				\$ 652,375.72
Add: Revenues					
	- J T		•	050 400 00	
	ed Tonnage		\$	253,463.82	
Se			\$	66,454.66	
Fe	rtilizer Tonna	age	\$	43,647.87	
Lin	ne Tonnage		\$	20,785.14	
Mo	otor Fuel		\$	-	
Into	erest		\$	956.45	
Mis	scellaneous	(VT refund)	\$	556.97	
			\$	385,864.91	
Total Balance and	Receipts				\$ 1,038,240.63
_					
Less - Expenses					
	lministration		\$	15,000.00	
Mis	scellaneous		\$	606.00	
Tra	avel and med	etings	\$	8,193.96	
Gra	ant Expendi	tures	\$	453,949.31	
			\$	477,749.27	
Cash Balance - Jur	ne 30, 2022				\$ 560,491.36

REVENUE SUMMARY 2017 - 2022								
		2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	5 YR AVERAGE	Difference
Feed Tonnage	\$	263,455.18	271,020.90	278,111.79	230,385.22	253,463.82	259,287.38	23,078.60
Fertilizer Tonnage	\$	41,310.49	42,673.69	41,031.55	45,020.48	43,647.87	42,736.82	(1,372.61)
Lime Tonnage	\$	23,100.67	21,876.07	15,300.50	21,258.75	20,785.14	20,464.23	(473.61)
Motor Fuel/Interest/Misc.	\$	745.44	14,709.32	7,895.44	2,197.22	1,513.42	5,412.17	(683.80)
NON SEED TOTAL	\$	328,611.78	350,279.98	342,339.28	298,861.67	319,410.25	327,900.59	20,548.58
Seed	\$	58,239.59	60,646.62	67,342.72	30,395.70	66,454.66	56,615.86	36,058.96
TOTAL	\$	386,851.37	410,926.60	409,682.00	329,257.37	385,864.91	384,516.45	56,607.54

### COMMONWEALTH OF VIRGINIA

#### Department of Accounts General Accounting

#### Certification of Agency Reconciliation to Cardinal

Agency :	307 - AGRICULTURAL COUNCIL						
To the Comptroller:							
State Comptroll our assessment estimates and judgest of controls and provide rea Additionally, I co	anagement accepts responsibility for the iner. We believe the data provided are accur tof the internal controls operating within ou digments from management so that, in attashould not exceed the benefits obtained. I sonable assurance as to the proper record ertify that, for the agency listed above, the a, are accurate in all material respects.	ate in all ma ir Agency. T aining reaso believe the ing of financ	terial respects. T he establishment nable assurance Agency's internal ial transactions.	he basis for these conclusions relates to of such internal controls requires as to the adequacy of such controls, the controls adequately safeguard its assets			
submitted Gene	counting records for the year ended June 3 eral Ledger Journals have posted to Card n agreement with those reported in Cardina	dinal, and/or	items shown be				
Yes Yes Yes Yes Yes Yes Yes	All cash balances (by Fund) All appropriations (by Fund, Program) All allotments (by Fund, Program) Total expenditures (by Fund, Program, Ac Net revenues (by Fund, Account) Capital assets (by Fund)	count)	No	PLEASE INDICATE IF THERE ARE ITEMS NOTED ON THE EXCEPTION REGISTER.			
	*Note that agencies must adhere to t Reconciliation & Error Correction,			2 (C. 10. C.			
Signature :	Docusigned by:  Doceth Stuttmie  DAIASSTF1020433.		Signature :	Docusigned by:  Tyuisha Pittman  ES103BAC4987438.			
Email :	joseph.guthrie@vdacs.virginia.gov		Email :	tyhisha.pittman@vdacs.virginia.gov			
Printed Name :	Joseph Guthrie		Printed Name :	Tyhisha Pittman			
Title :	Commissioner		Title :	Finance Director			
Role :	Agency Head		Role :	Fiscal Officer			
Date :	7/12/2022		Date :	7/12/2022			
			Fiscal Officer's				
			Telephone No :	804-371-2292			