VIRGINIA AGRICULTURAL EXPERIMENT STATION
TIDEWATER AGRICULTURAL RESEARCH AND EXTENSION CENTER
VIRGINIA TECH

Virginia Cooperative Extension
Virginia Tech • Virginia State University

Building on the land-grant commitment to develop leaders, share knowledge, and invest in ecological resilience with hands-on applications to help Virginia thrive, the College of Agriculture and Life Sciences strives to enhance:

Workforce Development for Economic Prosperity. Drive economic resilience with student learning experiences, educating career-ready graduates who support Virginia's #1 industry: agriculture.

Resource Stewardship. Protect Virginia's vital natural resources through evidence-based stewardship, leaving healthier land, water, and air for future generations.

Human and Ecological Health. Improve health and resilience of people, communities, plants, and animals across Virginia from the scientific front line.

Understanding and Communication. Confront Virginia's most pressing challenges through research in agriculture, life sciences, and community engagement.

CALS supports a collaborative network of:

11 Agricultural Research and Extension Centers (AREC), 107 Virginia Cooperative Extension offices, and six 4-H educational centers throughout Virginia in cooperation with Virginia Agricultural Experiment Station and Virginia Cooperative Extension.

10 Academic Departments for 3,600 associate, undergraduate, and graduate students in 68 unique programs of study.

Over $500,000 in **public-private partnership** support annually.

LEARN MORE

cals.vt.edu

TIDEWATER

Agricultural Research and Extension Center

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arec.vaes.vt.edu/arec/tidewater | TidewaterAREC | VTTAREC

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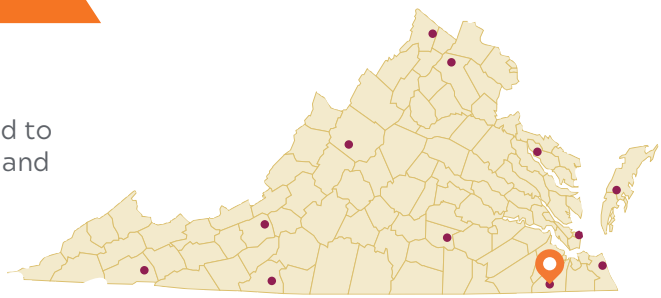
ABOUT THE TIDEWATER AREC

Established in 1914 in Suffolk, Virginia, Tidewater AREC is committed to applied research and educational programs that support profitable and sustainable agriculture while improving the quality of life in the Tidewater region of Virginia and North Carolina and beyond.



RESEARCH AND EXTENSION PROGRAMS

- Field Crop Agronomy
- Entomology
- Soybean Agronomy
- Peanut Quality and Variety Evaluation (PVQE)
- Crop Physiology
- Plant Pathology
- Precision Agriculture & Data Management
- Livestock Production & Management

INDUSTRY PARTNERS

- Peanut, cotton, corn, soybean, and small grain associations
- Agricultural chemical, seed, and fertilizer industries

FACILITIES

- 465-acre farm
- 100-person auditorium
- 34 buildings
- 2 greenhouses
- 5 rainout shelters for controlled rainfall and irrigation research

INNOVATIVE TECHNOLOGIES

- Advanced drone technology for precision spraying and real-time plant health monitoring
- Variable rate and micro-irrigation for row crops
- Soil and atmospheric monitoring to improve input management that optimizes yield response

Protecting Soybeans from Corn Earworm: Virginia's 25-site monitoring network guided pest management on 10,000 acres in 2025, preventing an estimated $39,000 in losses while helping growers avoid unnecessary insecticide applications.

Driving Peanut Profitability: Variety trials identified a $154-per-acre advantage for the top-performing peanut cultivar in 2025, contributing to an estimated $5 million increase in crop value across 33,000 Virginia acres.

Better Soybean Choices, Bigger Returns: Virginia's soybean selection tool provides unbiased statewide yield data and identified a potential $210-per-acre difference between top- and poor-performing varieties in 2025, representing an estimated $12.6 million in economic benefit across Virginia soybean acres.

HELPFUL TOOLS FOR GROWERS

bit.ly/3VsB4U5

Our collaborators include: USDA, North Carolina Peanuts, VSB Virginia Soybean Board, Virginia Cotton Growers Association, Virginia Peanuts, Virginia Cotton Board, Virginia Department of Agriculture and Consumer Services

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