COLLEGE OF AGRICULTURE AND LIFE SCIENCES
VIRGINIA TECH

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 2,700 undergraduate, graduate, and professional students within 68 unique programs of study.

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

LEARN MORE

cals.vt.edu

TIDEWATER

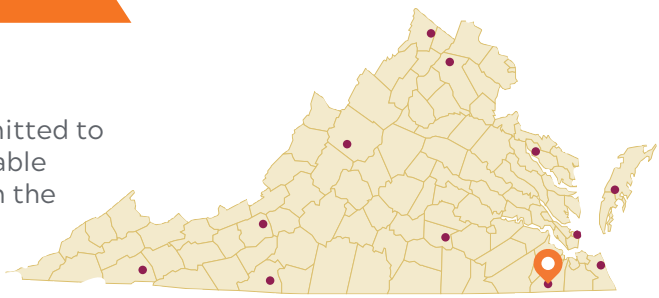
Agricultural Research and Extension Center

6321 Holland Road, Suffolk, Virginia 23437 | (757) 807-6535
arec.vaes.vt.edu/arec/tidewater | TidewaterAREC | VTTAREC

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

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

Improved peanut stand by 40% and seedling vigor by 50% – resulting in an average 5% yield advantage with commercial seed treatment research funded by the Virginia Peanut Board

$$$ **Reduced fertilizer costs** of $3.6 - 5.4 million in savings annually for Virginia's cotton producers with research to improve soil health across Virginia's row cropping systems

HELPFUL TOOLS FOR GROWERS

bit.ly/3VsB4U5

Virginia Cooperative Extension
Virginia Tech • Virginia State University

USDA

North Carolina Peanuts Nutritious & Flavorful

VSB Virginia Soybean Board

Virginia Cotton Growers Association

Virginia Peanuts First and Still Finest

Virginia Cotton Board

Virginia Department of Agriculture and Consumer Services

VT/1025/AREC-303