



Rutgers
New Jersey Agricultural Experiment Station
Newark

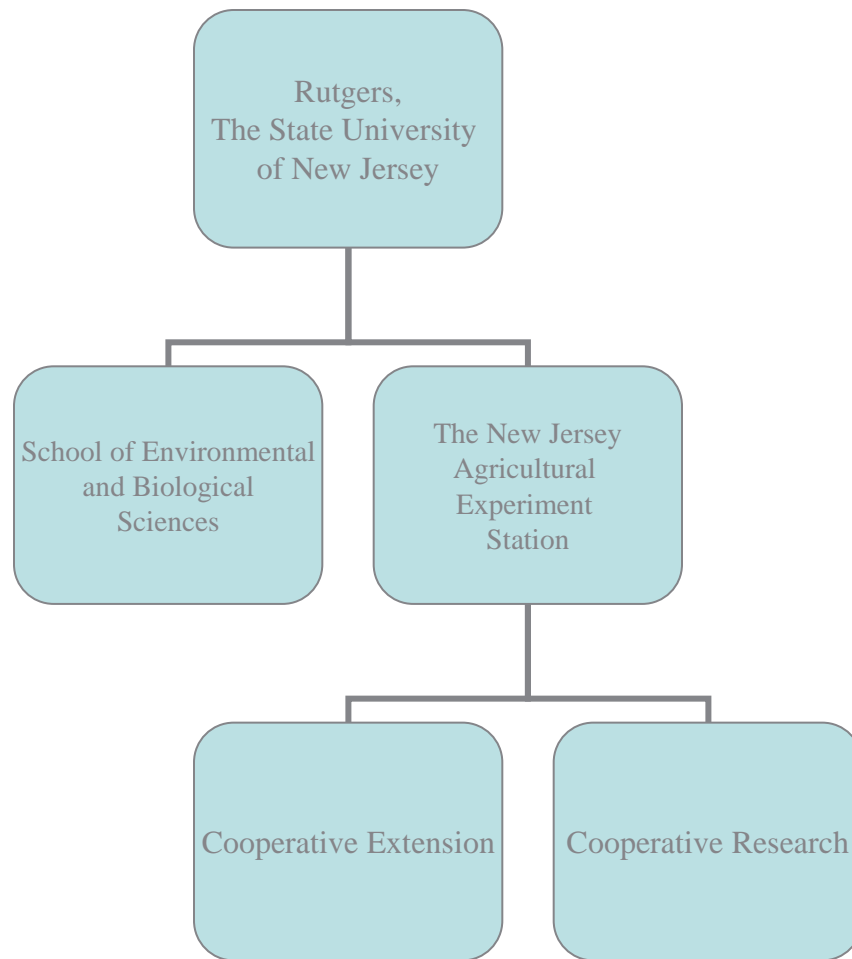
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What is the New Jersey Agricultural Experiment Station?

- The largest research unit at the university
- Funded by state legislature, County Boards of Chosen Freeholders, USDA – no tuition money is used

What are Cooperative Extension and Cooperative Research?

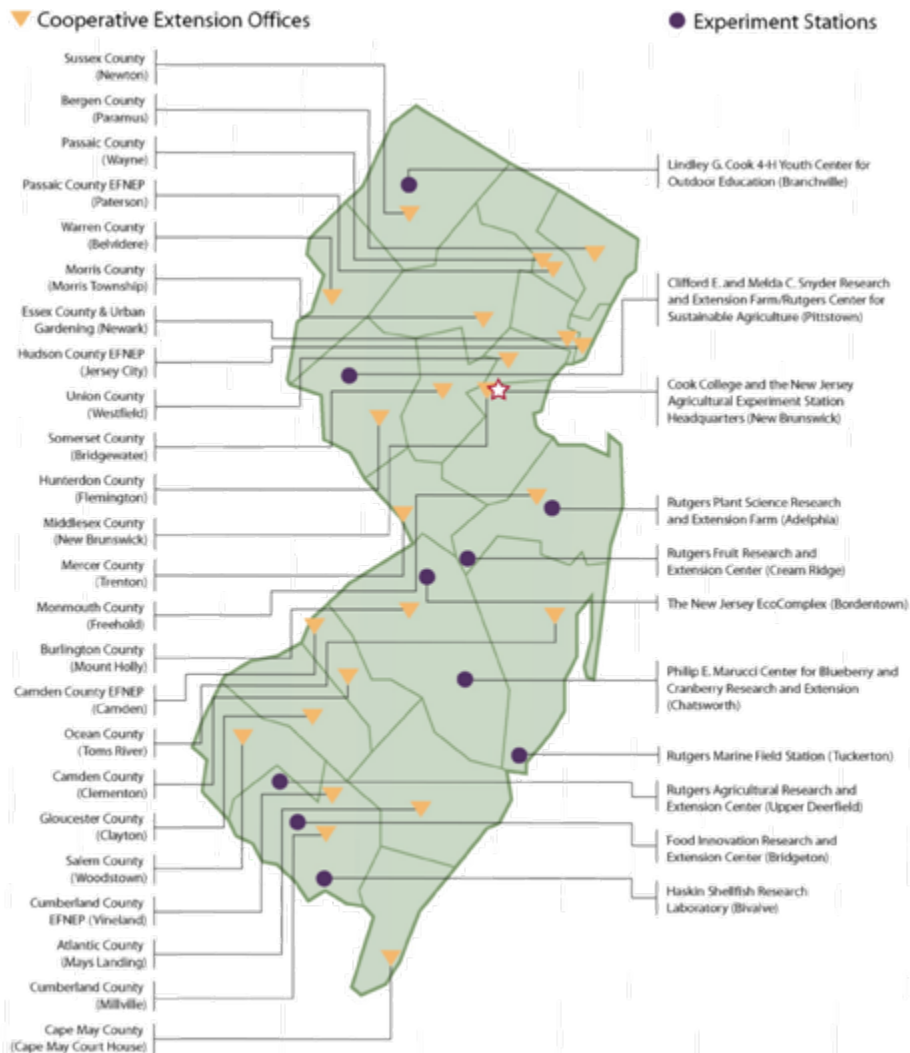
- The means by which we carry out our mission
- NJAES funds these units to provide research, extension programs, and services throughout the state



A Brief History of Rutgers New Jersey Agricultural Experiment Station

- **1862 – Morrill Act passed**; provides grants of federal lands to create public institutions for teaching agriculture and mechanical arts.
- **1864 – The Rutgers Scientific School** is founded as New Jersey's land-grant college, with George H. Cook as its head.
- **1887 – Hatch Act passed**; establishes federal agricultural experiment stations at land-grant institutions (New Jersey had established its New Jersey Agricultural Experiment Station in 1880).
- **1914 – Smith-Lever Act is passed**; establishes the Agricultural Extension Service at each land-grant institution.

Where We Are



- Based at Rutgers University, on the George H. Cook Campus in New Brunswick
- NJAES programs are delivered via 9 on-campus centers/institutes and research farms, 9 off-campus research centers and farms, and offices in all 21 NJ counties

NJAES Mission and Impact

" To enhance the vitality, health, sustainability and overall quality of life in New Jersey by developing and delivering practical, effective solutions to current and future challenges relating to agriculture; fisheries; food; natural resources; environments; public health; and economic, community, and youth development. "

- 300+ faculty and staff and 6,800 volunteers serve all 21 NJ counties
- County partnerships generate \$7.5 M in cooperative support
- NJAES Cooperative Research is supported by \$21 M in state and federal funding and over \$11 M in grants annually

Programs that Make a Difference

Food and Nutrition

- Food safety
- Packaging and engineering
- Proper nutrition and exercise

Youth Development

- 4-H
- T.E.E.M. Gateway
- Workforce preparation
- K-12 programs (i.e., Liberty Science Center partnership)

Public Health

- Vector Biology
- Awareness and reduction of toxic exposures
- Urban Entomology

Environmental and Natural Resources

- Alternative fuels
- Water quality and quantity
- Climate and weather

Programs that Make a Difference

Economic and Community Development

- Industry development, technology transfer, entrepreneurial training
- Community planning and economic development strategies
- Workforce development and training
- Green buildings and sustainable communities

Production Agriculture, Horticulture and Allied Industries

- Integrated pest management
- Plant and animal improvement and protection
- Sustainable farming
- New market opportunities

Marine Fisheries and Aquaculture

- Shellfish and finfish stock assessments
- Aquaculture production
- Policy development
- Ocean observing

An Urban Experiment Station

- NJAES can help New Jersey's nearly 9 million residents in areas such as
 - vector diseases
 - urban sprawl
 - youth at risk
 - food, health, and nutrition
 - environmental assessment
- We plan to stay true to our mission and expand it to meet the needs of all of NJ's residents



Resource Stewardship

Rutgers Urban Gardening Program

- Motivates low-income families and individuals in Newark and surrounding areas to grow vegetables using backyards, containers, and community garden plots
- Gardens covering acres of former city wasteland are producing vegetables and other plants for food

Environmental Stewards of Essex County

- Trains community leaders for proper land management
- Is a partnership with Duke Farms and numerous community and nonprofit organizations

TEEM Gateway

- Rutgers NJAES TEEM Gateway works with parole officers, case managers, Newark public schools, the City of Newark, and numerous community organizations to provide
 - Educational, vocational, and employment placement services
 - Life and job coaching
 - Individualized case management
 - Family services
- The Ye²s Center in Newark opened its doors on Jan. 31
 - Offers Rutgers students opportunities for hands-on and service learning



Youth Development

- Essex County 4-H After-School Garden Program
 - Uses gardening and food preparation as vehicles to develop leadership and social skills in youth
- The Union County 4-H Summer Science Program
 - A seven-week educational program designed to increase low-income youths' interest in science
- Cultivating Youth and Communities for Positive Futures
 - Develops life skills in at-risk youth populations
 - Capitalizes on the strength of partnerships with other youth-serving organizations and uses lessons in horticulture, gardening, food and nutrition, and entrepreneurship to meet project goals

Integrated Pest Management in Schools

- IPM on school property is a long-term approach to maintaining healthy landscapes and facilities that minimizes risks to people and the environment.
- IPM uses site assessment, monitoring, and pest prevention in combination with a variety of pest management tactics.
- Instead of routine chemical applications, IPM employs physical, horticultural, mechanical, and biological controls with selective use of pesticides when needed.

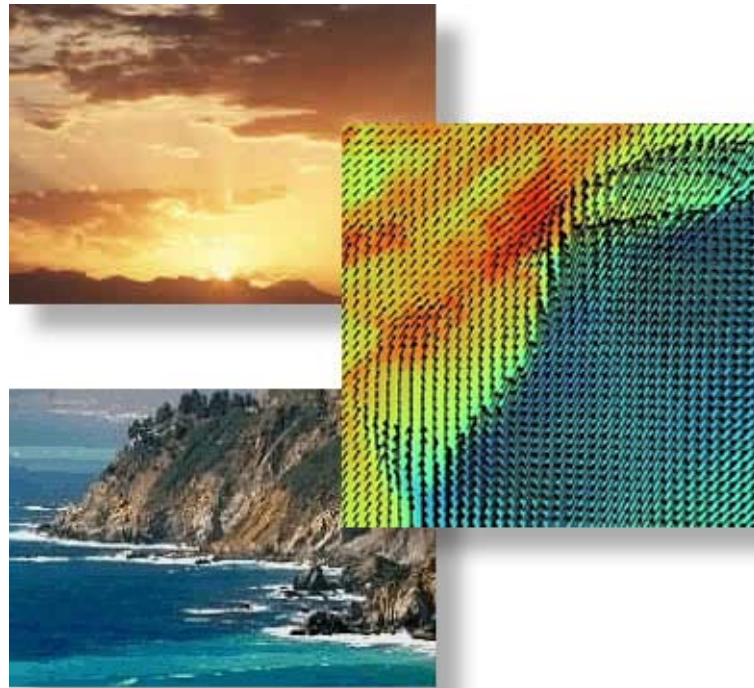
www.pestmanagement.rutgers.edu/IPM/SchoolIPM

Community Health



- Get Moving-Get Healthy
- Master Gardeners
- Urban Gardening
- Small Steps to Health and Wealth
- Food Stamp Nutrition Education Program (FSNEP) and Expanded Food and Nutrition Program (EFNEP)
- Children's Health Summits
- School Wellness Training

Signature Initiative: Climate & Environmental Change



Our Goals:

- Understand the mechanisms that drive global and regional climate change
- Predict the future impacts of climate change on a densely populated, coastal state
- Educate students and society about the causes and consequences of climate change

Climate and Environmental Change Programs

- NJ State Climatologist
- Center for Environmental Prediction
- Coastal Ocean Observation Lab
- Initiative on climate change, social policy, and politics

Signature Initiative: Economic Development

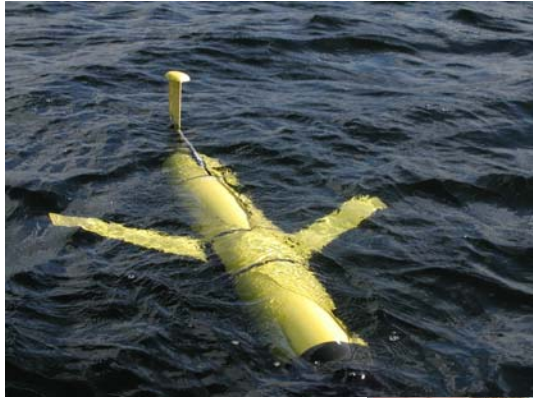
- Identify emerging economic issues and nurture solutions
- Work with local communities, businesses, nonprofit organizations, local to federal government, and academic institutions
- Base efforts on five principals: *empowerment, education, economic sustainability, and entrepreneurial job creation*

Economic Development Programs

- Food Innovation Center, EcoComplex, Food Policy Institute
- New Jersey Urban Experiment Station
- Center for Economic and Community Development
- Economic impact assessments
- Technology transfer
- Entrepreneurship education
- Workforce development (OCPE)



Signature Initiative: Our Oceans



- New Jersey has six major fishing ports, 1,500 vessels, 15 seafood processing plants, and 81 wholesalers
- Economic impact = \$4.5 billion/year

Fisheries and Aquaculture Programs

- Barnegat Bay Shellfish Restoration Program
- Multispecies Aquaculture Demonstration Facility
- Institute of Marine and Coastal Sciences
- Haskin Shellfish Research Laboratory
- Rutgers Cape Shore Laboratory
- Center for Deep-Sea Ecology and Biotechnology
- Center for Marine Biotechnology

We Invite You to Learn More

At NJAES, we are committed to...

- Promoting sustainable growth in urban and rural communities
Developing effective public-private partnerships
- Providing a well-educated, highly skilled work force
- Engaging in cutting-edge, innovative research
- Fostering technology/innovation transfer to industry
- Launching start-up enterprises through incubators and business development support

NJAES is a Rutgers-wide resource. By working together, we can better serve our state's residents.

Cooperative Extension of Essex County
Rutgers New Jersey Agricultural Experiment Station

162 Washington Street
Newark, NJ 07102-3098

Cooperative Extension of Essex County and Rutgers Urban
Gardening
Rutgers New Jersey Agricultural Experiment Station

621a Eagle Rock Avenue
Roseland, NJ 07068-1501

Cooperative Extension of Essex County - FSNEP
UMDNJ Dept of Primary Care
65 Bergen St., Room 157
Newark, NJ 07107



njaes.rutgers.edu and essex.njaes.rutgers.edu

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New Jersey Agricultural Experiment Station

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about us

The Rutgers New Jersey Agricultural Experiment Station (NJAES) is the way in which Rutgers and the state of New Jersey fulfill a joint mission to provide solutions to residents. As a land-grant university, Rutgers is committed to teaching, research, and outreach.

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fyi

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