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.

Robert M. Goodman  
Executive Dean of Agriculture and Natural Resources  
Rutgers, The State University of New Jersey  
Executive Director, NJAES  
732-932-9000, ext. 500  
execdean@aesop.rutgers.edu

Executive Dean Goodman provides leadership and oversight for the School of Environmental and Biological Sciences and the New Jersey Agricultural Experiment Station. He works closely with university leaders to develop and implement strategic initiatives that reflect and advance the university’s research, education, and outreach missions.

Gail Alexander  
Chief of Staff, Office of the Executive Dean  
732-932-9000, ext. 501  
alexander@aesop.rutgers.edu

Gail Alexander is responsible for the overall management of the functions and leadership team within the Office of the Executive Dean. She also provides strategic oversight and coordination of stakeholder relations.

Larry Katz  
Senior Associate Director, NJAES  
Director, Cooperative Extension  
732-932-5000, ext. 591  
katz@aesop.rutgers.edu

Larry Katz leads all Cooperative Extension programs. Rutgers Cooperative Extension (RCE) helps New Jersey’s diverse population adapt to a rapidly changing society and improve their lives and communities through an educational process that uses science-based knowledge.

Bradley I. Hillman  
Senior Associate Director, NJAES  
Director, Cooperative Research  
732-932-1000, ext. 579  
hillman@aesop.rutgers.edu

Brad Hillman is responsible for research programs and resources associated with NJAES. His office ensures effective use of federal formula funding through Hatch, multistate, and McIntire-Stennis programs and of state resources directed to NJAES. He also oversees intellectual property associated with NJAES scientists, such as plant variety patents and royalties.
We Have the State Covered…

- County Offices
- Centers and Institutes
- Off-Campus Stations
- Supplemental Nutrition Assistance Program - Education (SNAP-Ed)
- Expanded Food and Nutrition Education Program (EFNEP)

Reaching All 21 New Jersey Counties:

**Rutgers Cooperative Extension FY 2008-2009 Statistics**

- 228,827 participants in educational outreach
- 1,870 volunteers trained this year
- 4,663 programs conducted
- 44,260 4-H Youth Development program participants
- 2,190 4-H volunteers each provided an average of 220 hours of service, valued at $11.4 million
- 2,281 active Master Gardener volunteers each provided an average of 62 hours of service, valued at $3.5 million
- 85,099 one-on-one visits to homes, farms, fields, and industries
- 5,248 issues of various newsletters with a circulation of 73,105
- 423,617 downloaded publications
- 13,735 adult and 2,179 youth EFNEP behaviorally focused nutrition education classes conducted
- 19,009 adult and 15,013 youth SNAP-Ed behaviorally focused nutrition education classes conducted

njaes.rutgers.edu
A Message from the Executive Director

The New Jersey Agricultural Experiment Station (NJAES) is committed to a viable economic and environmental outcome for agriculture, fisheries, communities, and businesses in New Jersey.

NJAES embraces its responsibility to forge strong partnerships with statewide stakeholders, including the New Jersey Department of Agriculture, the state and county boards of agriculture, the New Jersey Farm Bureau, and farmers and fishermen. We must bring all our constituencies together to ensure the benefits of the strong agricultural base of our state. The NJAES Board of Managers contributes to this process, and with an energized committee structure, the board provides productive communication to and from the county boards of agriculture and plays a central role in planning and assessing the programs of the experiment station.

The leadership of the experiment station under Brad Hillman and Larry Katz has produced exciting new research from plant breeding to nutrition, and vigorous outreach to our traditional audiences and new constituencies in science, nutrition and health, and youth development in our urban communities.

The School of Environmental and Biological Sciences and NJAES have embraced their collective responsibility in preparing our future farmers. The school has begun the strategic process of rejuvenating its oldest major—agricultural sciences. A dynamic curriculum will aggressively target new, non-traditional student audiences taught by both traditional and extension faculty. In addition, we will introduce “farmer faculty”—key leaders in all facets of agriculture and food production who will provide real-world experience for students. This re-visioning is a necessary and core part of our commitment to the agricultural community in New Jersey and helps ensure a resilient and viable agricultural system for the future.

Best regards,

Robert M. Goodman

A Message from the Senior Associate Directors

The New Jersey Agricultural Experiment Station has been the critical link through which state residents gain access to education, research, and outreach in a growing number of areas, from food, agriculture, water and air quality, to nutrition education and youth development.

Rutgers’ strong leadership in turfgrass, ornamental, and specialty crop breeding continues, with several of our breeding programs well positioned to take advantage of the growing federal research emphasis on bioenergy crops. New Rutgers cranberry varieties have had an immediate impact on acreage across the United States, and new releases of asparagus, dogwood, and fruit tree varieties are gaining wide acceptance as well.

As the directors of research and extension at NJAES, we are privileged to implement outstanding programs that promote economic growth and job creation in the agricultural, food, energy, and environmental sectors of our economy and that impact the health and welfare of our residents.

The return on the strategic investments in personnel, research, and outreach this past year can be measured through increased farm profitability and improved efficiency in food production, pest control, and animal health. More difficult to quantify, but no less important, are the long-term benefits that accrue from healthy lifestyle changes, safe and productive youth programming, and the satisfaction of volunteering in Master Gardener, 4-H, or environmental stewardship programs.

Best regards,

Brad Hillman (pictured above left)
Director, Cooperative Research

Larry S. Katz (pictured below left)
Director, Cooperative Extension
Rutgers is proud to serve as the State University of New Jersey, and there may be no better expression of our commitment to meeting the needs of our fellow citizens than the work of the New Jersey Agricultural Experiment Station. In centers, offices, and research farms located both on campus and spread among the state’s 21 counties, NJAES touches the lives of New Jersey families in a multitude of ways with the strength of first-rate research and outreach.

Just consider some of the newest initiatives that NJAES has undertaken over the past year, building upon its many longstanding programs. In July, teenagers from Camden, Hackensack, Paterson, and Trenton took part in the first urban 4-H Summer Science Program geared toward science, engineering, and technology. In September, family members of those serving our nation were given the opportunity to explore nature at the first New Jersey Operation: Military Kids camping weekend. Meanwhile, NJAES responded aggressively and comprehensively to a 2009 outbreak of late blight (the pathogen responsible for the Irish potato famine of the 19th century), which threatened both tomato and potato crops in the Garden State. In addition to helping establish the trail of the disease outbreak, NJAES disseminated control recommendations for commercial farms and home gardeners, provided weekly disease forecasting reports, and offered timely training via its website.

I take special pride in the leadership NJAES has given to Rutgers Against Hunger, our university-wide response to the impact a difficult economy has had on many New Jersey families. Our food and fundraising drives have been complemented by gleaning efforts on farms around the state, and we have been able to open a farmers market to supply nutritious, affordable produce to residents in the heart of New Brunswick. In these ways and many more, NJAES is helping the people and communities of our state to achieve their full potential.

Sincerely yours,

Richard L. McCormick

A Message from the New Jersey Secretary of Agriculture

New Jersey’s 10,327 farms generate sales of more than $1 billion a year, making agriculture an integral part of the state’s economy. Agriculture in the Garden State is positioned to be a growth industry, with the most innovative growers in the country, an aggressive farmland preservation program, and a market close to where 100 million people live.

The Department of Agriculture is partnering with Rutgers’ New Jersey Agricultural Experiment Station, helping farmers to tap that market, identify their products in the marketplace, and train highly skilled professionals to stay on the cutting edge of agriculture. Working together, NJAES and department staff have trained more than 1,000 farmers on food safety and third-party audit requirements; we have studied agritourism and its impact on the state economy; we have toured counties seeking out farmers’ concerns; we have promoted the Food Innovation Center to farmers; and so much more.

NJAES has been out in front when it comes to community farmers markets and working with farmers to feed the hungry. I proudly attended the opening of Rutgers’ new farmers market in New Brunswick this year, which gave farmers a venue to sell their products directly to consumers and gave local residents access to important programs to combat hunger and improve their nutrition.

We stand with NJAES in its leadership and commitment to the agriculture industry, the community, and those in need. We look forward to a continued fruitful partnership and congratulate them for a successful year.

Sincerely,

Douglas H. Fisher
The Rutgers University Laboratory for Digestive Studies on the George H. Cook Campus was dedicated on January 16 as part of a collaborative arrangement with the Dutch company, TNO. This laboratory allows Rutgers scientists to examine various compounds as they pass through a fully functional model of the human digestive system, called the TIM-1, which was developed by TNO veterinary scientist Rob Havenaar. Rutgers is the first U.S. university to have one of the TIM instruments on site, expanding its reach in solving problems related to food, nutrition, and health. Rutgers scientists Judith Storch, who studies lipids and human obesity, and Ilya Raskin and David Ribnicky, who study the biology of natural plant products, have initiated projects using the TIM system.

sebs.rutgers.edu/spotlight/tim1.asp

Family and Community Health Sciences educators invited 10 New Jersey middle schools in seven counties to participate in the Get Moving–Get Healthy Walk New Jersey Point to Point school walking program. Students and teachers were taught how to use pedometers to track their steps during the school day for approximately six weeks. The goals of the program were to have students increase the number of steps that they took during the average school day and to increase awareness of the importance of physical activity and its role in health. Over 1,000 students participated in the program, walking a total of 53,037 miles. One school walked to Key West, FL, and back after walking the length of New Jersey!

getmovinggethealthynj.rutgers.edu

Few enterprises are as vulnerable to weather and climate as is the business of farming. Rutgers scientist Dave Robinson, New Jersey’s State Climatologist since 1991, plays a key role in collecting data pertaining to, for example, climate change, drought, and flooding. He collaborates with decision makers in the agricultural, transportation, public safety, energy, and commerce sectors to address climate concerns. The Office of the New Jersey State Climatologist provides climate education and information to policy makers, the media, and residents, and helps the agricultural community manage the ever-present threat of weather and climate vagaries to agricultural sustainability. The office operates the NJ Weather and Climate Network, a unique collection of hourly environmental data from stations across the state.

climate.rutgers.edu/stateclim

Gef Flimlin, marine county agent, has been working on high-pressure shellfish processing, the development of best management practices for East Coast shellfish growers, and small-scale aquaponics projects with commercial growers. Cara Muscio, a fellow marine county agent, has been developing volunteer protocols for tracking pathogens in coastal watersheds, teaching landscape water conservation and stormwater reduction, and initiating an expired marine flare recycling program. Both are intimately involved in the Shellfish Restoration Program, which has trained volunteers to grow clams and oysters in Barnegat Bay and to educate the public to reduce environmental impacts on the watershed. Through its volunteer corps, the program has educated almost 3,000 people this past year at 136 events.

ocean.njaes.rutgers.edu/marine/bbsrp.html
Nearly 200,000 acres of New Jersey farmland are devoted to equine production and use, and the environmental impact of these operations has become a state and regional issue. Seeing the need for a comprehensive response, the Rutgers Equine Science Center organized a national project, approved by the USDA's National Institute of Food and Agriculture, that will incorporate the best regionally available data to develop a systematic model of nutrient flow in soil, water, and air occurring on horse farms. In addition to identifying system-wide losses on equine farms, this project will assist farmers and those who work with them in determining the value of equine management practices and other accepted best management practices.

esc.rutgers.edu

The NJAES Office of Continuing Professional Education's Transitional Education and Employment Management (T.E.E.M.) Gateway, together with the New Jersey State Commission on National and Community Service, was awarded a three-year, $1.5 million grant from the AmeriCorps program. The grant will support 30 participants who will serve a total of 105,000 hours while participating in a wide array of life skill-building projects, including financial literacy, teen pregnancy, childhood obesity, landscaping and community gardening, and volunteer management. Content for these projects is provided by Rutgers and its statewide network of nonprofit organizations. Participants will collectivley receive nearly $285,000 in educational awards as well as training and a living allowance during their service.

teamgateway.rutgers.edu

The IR-4 Project represents an important partnership among Rutgers, State Agricultural Experiment Stations, and the USDA. The IR-4 Project is the only publicly funded research program that facilitates the registration of the newest generation of reduced- and lower-risk pesticides for specialty crops and other minor uses. The project conducts the research necessary to support a wide variety of specialty crop pesticide applications needed to maintain a stable and affordable supply of food and ornamental crops. Scientists funded through IR-4 conduct this critical research at the Rutgers Fruit and Ornamental Research Extension Center at Cream Ridge. In its latest strategic plan, one of IR-4's new initiatives with significant statewide and global impact is to support the registration of public health pesticides.

ir4.rutgers.edu

The NJAES Master Gardeners program was launched in 1984 in Bergen County by then County Agent Ralph Pearson. Over the past 25 years, the program has grown into a widely respected and award-winning statewide initiative of Rutgers University. More than 5,000 New Jersey residents have been trained and have volunteered over that time, with over 2,000 remaining active. Master gardeners have selflessly volunteered over 1.2 million hours—a nearly $18 million value—to the residents of New Jersey. They provide gardening demonstrations and clinics, answer questions through a telephone helpline and at county fairs, assist faculty in research projects, aid in horticultural therapy, and harvest food for the hungry.

njaes.rutgers.edu/mastergardeners
Two-thirds of crop varieties require animal pollination for production, and many crops are improved by insect pollination. Bees are the most important pollinators in most ecosystems, with domesticated honeybees commonly used by farmers. Rachael Winfree, a new faculty member in Rutgers’ Department of Entomology, has been examining native bees as pollinators and has found them to be capable of extremely effective plant pollination, even in traditional agricultural settings. Her findings on the efficiency of individual native bee species as pollinators, and of the effects of land disturbance on native bee biology, have led to recommendations for New Jersey farmers and land owners on how to use this natural biological resource most effectively.

winfreelab.rutgers.edu

The New Brunswick 4-H program was launched in May 2009 in response to a call by Latino community leaders to establish youth development programming in their community. The program utilizes the structure and philosophy of 4-H, while working with community organizations such as Lazos America Unida. Over 175 youth have enrolled in the program, which focuses on culture, dance and arts, leadership, sports, English as a second language, and gardening. More than 30 adults have been trained as volunteer club leaders, and a companion Rutgers student organization has been formed to assist with fundraising and to provide assistant volunteer leaders. Partnerships have been formed with local businesses and organizations to provide resources and support for the program.

c0.middlesex.nj.us/extensonservices/4hclubs.asp

Just three years after its inception, the Rutgers NJAES Center for Vector Biology has matured into a facility that meets NJAES and state mosquito control needs while providing an internationally recognized research program in vector (insect)-borne diseases. Weekly surveillance reports and risk assessment models assist mosquito control agencies with intervention decisions, while workshops provide training on topics such as mosquito biology and identification, wetlands management, trap calibration, and aerial insecticide application. The center produced 19 refereed papers and received grants totaling nearly $1 million in 2009, including $300,000 awarded by the Deployed War Fighter Protection Fund, a program to safeguard U.S. soldiers from vector-borne disease.

vectorbio.rutgers.edu

Forty-four high school youth from Camden, Hackensack, Paterson, and Trenton participated in the first Rutgers 4-H Summer Science Program, held on the George H. Cook Campus. During their week-long residential experience, the youth explored science through hands-on activities at the Equine Science Center, the Center for Remote Sensing and Spatial Analysis, the Institute of Marine and Coastal Sciences, and the Department of Food Science. They learned about campus life from an undergraduate student panel and participated in leadership and team-building activities, including a trip to the Rutgers Challenge Course. This enabled students to become 4-H Science, Engineering, and Technology Ambassadors. In this role, they will work with their local 4-H program to promote 4-H and science to other youth.

mercer.njaes.rutgers.edu/4h/urban+afterschool+summer.html
New plant varieties with higher yields and better agronomic characteristics are critically important to New Jersey’s agriculture and landscape industries. Professors Stacy Bonos and Tom Molnar have carried on the tradition of plant breeding excellence at Rutgers. Molnar collaborated with the National Arbor Day Foundation, the University of Nebraska, and Oregon State University to win a $1.4 million USDA Specialty Crops Research Initiative (SCRI) grant for hazelnut research, genetic improvement, and extension. Bonos won the inaugural Early Career Excellence in Plant Breeding Award presented by the multistate Plant Breeding Coordinating Committee, now USDA’s National Institute for Food and Agriculture. Bonos also leads a multi-investigator $1 million SCRI grant for switchgrass improvement.

The New Brunswick Community Farmers Market was launched on July 10 as a cooperative effort of Rutgers University, Johnson & Johnson, and the City of New Brunswick. The market provides New Brunswick residents with affordable, nutritious, and culturally appropriate foods while supporting local farmers and small businesses. The New Brunswick community has welcomed the market and the opportunity to purchase fresh, quality produce. Vendors accept SNAP (food stamps), WIC, and Senior Farmers Market Nutrition Program vouchers, making the market an affordable option for local residents. The market has also become a convenient venue for education and outreach on a variety of topics, especially those related to food, nutrition, and health.

The New Jersey tomato and potato industries were on high alert during the summer of 2009 due to the outbreak of late blight, the same disease responsible for the Irish potato famine in the 19th century. While late blight normally occurs sporadically in the Northeast, the cool summer and frequent rainfall led to conditions ideal for the development of the disease, with devastating impact. Andy Wyenandt, extension specialist in vegetable pathology at Rutgers Agricultural Research and Extension Center in Bridgeton, led faculty and staff in a robust response to the outbreak. This included developing recommendations and training sessions to deliver timely information for commercial growers and the home gardener in the state and throughout the Northeast that helped minimize the damage.

In August, a record-breaking 1,700 people attended the annual Great Tomato Tasting at the Clifford E. and Melda C. Snyder Research and Extension Farm. Tomatoes were plentiful and New Jersey families enjoyed beautiful weather as they learned about sustainable farming practices. A special 20th anniversary ceremony was also held to acknowledge the Snyers’ donation of their 390-acre farm to Rutgers University. Congressman Leonard Lance and his family were recognized for their stewardship of the Snyers’ dream to transform their traditional farm to the sustainable and scientific agricultural research facility it is today. Snyder Farm student intern alumni were recognized for their career achievements and over 100 master gardeners volunteered to make the event a success.
Rutgers’ urban entomology program works closely with pest management professionals, chemical companies, public health workers, county extension agents, property managers, and the general public to evaluate new pest-control methods, identify best pest management practices, educate the public, and provide technical assistance. Current research on insect behavior, monitoring, insecticide resistance, novel control techniques, and integrated pest management aims to find the most effective and least toxic strategies that can be used immediately by the public. Led by Assistant Extension Specialist Changlu Wang, program staff have developed an effective and inexpensive bed bug monitoring tool to help residents of New Jersey, especially in low-income communities, to handle the alarming increase in bed bug infestations.

njaes.rutgers.edu/pubs/publication.asp?pid=FS1098

Operation: Military Kids (OMK) of New Jersey supports military families in the Garden State before, during, and after a loved one is deployed. Led by NJAES 4-H Youth Development, in collaboration with community partners, OMK works to ensure educators understand the unique needs of students in military families and informs the general public about the impact of deployment on families and communities as a whole. New Jersey OMK creates community support networks and provides recreational, social, and educational programs for military youth. In September, the first OMK Family Camp was held to give families the opportunity to reconnect in a safe, outdoor environment while enjoying traditional camping activities.

morris.njaes.rutgers.edu/omk.html

The first commercial plantings of three Rutgers cranberry varieties, Crimson Queen, Mullica Queen and Demoranville, came into maturity in 2009, and superior crop yields have been realized in Wisconsin and Massachusetts. One of the first beds of Crimson Queen, planted in Wisconsin in 2005, yielded nearly three times the state average of about 250 barrels per acre. Licensees have planted these varieties in virtually all major North American cranberry growing areas. Two authorized growers of the Rutgers cranberry varieties have orders for over 370 new acres in 2010, and pre-orders are running into the year 2012. Initially available only to a limited number of cranberry growers, the Rutgers varieties will be made available to all cranberry growers in the near future.

pemaruccicenter.rutgers.edu

New Jersey ranks forty-sixth in geographical size but ranks first in population density, with 1,134 people per square mile, fourteen times the national average. This increasing population density and intense land use have degraded our state’s water resources. In 2009, the New Jersey Department of Environmental Protection joined forces with Rutgers Cooperative Extension on a pilot program that hired five county environmental and resource management agents to work directly with municipalities, counties, and watershed groups to help develop and implement solutions to address these water resource problems. Since their hire, the agents have delivered a number of educational and outreach programs on water resource management.

water.rutgers.edu
To coordinate and communicate bioenergy research and outreach activities, the NJAES Sustainable Energy Working Group (SEWG), led by Margaret Brennan-Tonetta, was established in 2009. The SEWG aims to become more familiar with NJAES faculty and staff research interests, identify and coordinate grant opportunities, and create more synergy at NJAES in the area of bioenergy. The group is developing collaborative research and outreach projects in bioenergy crop production, technology, economics, policy, education, and training. In December, a training seminar attracted 60 attendees from state agencies and nonprofit organizations responsible for bioenergy funding or project management. Topic areas included understanding basic energy principles, energy conservation, and carbon sequestration.

To promote entrepreneurial and innovative education in the agricultural sciences, the School of Environmental and Biological Sciences, in partnership with NJAES, has retooled its oldest major with a goal of creating a nationally ranked program to meet local and global agriculture needs. Existing courses are being updated and new courses added, with faculty on and off campus—including those in Cooperative Extension—delivering the curriculum. In addition to targeting traditional Agricultural Science undergraduates, plans are underway to significantly expand enrollment by targeting non-traditional audiences—recruiting individuals seeking to change careers or those who have degrees like economics or planning, but who may wish to learn about the food production system, either as a producer or in a position related to the food industry.

Eating meals as a family can strengthen bonds and provide valuable life skills, such as good manners. It can also help to develop healthy eating behaviors by establishing habits that are likely to last into adulthood, according to Kathleen Morgan, chair of the Department of Family and Community Health Sciences (FCHS). As an added bonus, children who eat more family meals get more of the nutrient-rich foods that build strong bodies and brains: more fruits, vegetables, lean meats, and low-fat milk; fewer fried foods and soft drinks. To assist families in planning meals, FCHS has recently authored four new Family Mealtimes fact sheets and developed a new educational program called Eating Together, Eating Well.

The NJAES Office of Continuing Professional Education partnered as training provider and grant administrator with Cooper University Hospital, the largest healthcare provider and employer in Camden. Cooper was awarded a $1.4 million Customized Training Grant from the New Jersey Department of Labor and Workforce Development. More than $1.1 million was used to train Cooper’s 4,000 doctors, nurses, and ancillary staff on Epic, a new, state-of-the-art electronic health record system. Grant money also funded classes on computer, life support, language, customer service, leadership, and management skills. “We’re excited to partner with Rutgers. Their trainers are outstanding in every area they teach,” said John P. Sheridan, Jr., Cooper Hospital president and CEO.

Eating Together, Eating Well
The Rutgers New Jersey Agricultural Experiment Station plays a significant role in the state’s economic growth by:

- Funding cutting-edge, innovative research
- Fostering technology and innovation transfer to industry
- Launching start-up enterprises through incubators and business development support
- Providing a well-educated, highly skilled workforce
- Developing sustainable growth strategies for urban and rural communities

**Office of Economic Development Highlights**

**Margaret Brennan-Tonetta, Director**

**Food Innovation Center: Jobs and New Businesses**

This award-winning center in Bridgeton provides business and technology expertise to small and mid-sized food and agricultural businesses in New Jersey and nationwide. Since 2001, staff members have assisted more than 1,000 companies and entrepreneurs in every New Jersey county. The center is recognized as a national “Innovative Program Model” by USDA for “achievement as a model for community and economic development and jobs creation.” Conservative estimates project that by 2015, the center will create over 1,000 new jobs. Further estimates indicate that thousands of employees will be engaged in the center’s quality-assurance, new technology development and integration, and workforce development and training programs.

**EcoComplex: Green Business for New Jersey**

Technology and innovation are the keys that open the door to new business development and economic growth. Rutgers’ EcoComplex in Bordentown helps “green-minded” companies to commercialize and market their ideas. By offering services and resources to entrepreneurs not available elsewhere, the EcoComplex is establishing New Jersey as “the place to go” for clean energy firms. Total revenue generated by EcoComplex tenant companies to date is $29 million, and a total of 125 new jobs have been created. The center has also initiated a new green jobs training program for 2010. The efforts of the EcoComplex will help the state reach its goal of 20 percent renewable electric energy use by 2020. In recognition of its efforts in commercializing and demonstrating new technologies, the EcoComplex received the 2008 Governor’s Excellence Award for Innovative Technology.

**New Jersey Agricultural Experiment Station: Providing Education and Empowerment**

Through its continuing professional education programs, NJAES is involved with nearly every community and agency in the state. Examples of its educational outreach include environmental management, audit, and stewardship programs; food safety and public health training; and anti-bioterrorism training. Outreach efforts through NJAES Rutgers Cooperative Extension (RCE) make it a “classroom without walls,” through which university research is delivered to communities in all 21 New Jersey counties. Among its many services, RCE assists municipalities in setting up waste-composting systems; helps instruct families to develop healthy eating and fitness routines; and addresses critical issues such as food insecurity through the Rutgers Against Hunger (RAH) program. Over 100,000 New Jersey residents participated in RCE programs in 2009.
Funding Sources
Base funding from government sources provides NJAES with a foundation for program development and delivery, while competitive grants, contracts, and gifts increase the scope and impact of applied research and education programs.

NJAES received $83.4 million in funding in fiscal year 2009. Fiscal year 2009 was the lowest-funded period in the last four years. In comparison, fiscal year 2008 was the highest at $89.8 million.

Year over year, NJAES has seen a 7% reduction in annual funding. Despite current economic conditions that have impacted grants, contracts, gifts, county and state appropriations, NJAES has seen an increase of 9% in federal appropriations since 2006.

Expenditure Breakdown

- **37.0%** Federal Grants and Contracts
- **30.4%** State Appropriations
- **16.6%** Other
- **8.5%** Federal Appropriations
- **7.5%** County Appropriations

- **64.1%** Salaries
- **13.0%** Services
- **10.4%** Equipment, Repair, Maintenance
- **6.7%** Administration
- **5.8%** Supplies
Centers and Institutes

Center for Advanced Food Technology
caff.rutgers.edu

Center for Controlled-Environment Agriculture
aesop.rutgers.edu/~horteng

Center for Deep-Sea Ecology and Biotechnology
deepseacenter.rutgers.edu

Center for Turfgrass Science
turf.rutgers.edu

Center for Urban Restoration Ecology
i-cure.org

Center for Vector Biology
vectorbio.rutgers.edu

Equine Science Center
esc.rutgers.edu

Food Policy Institute
foodpolicyinstitute.rutgers.edu

IR-4 Project: Center for Minor Crop Pest Management
ir4.rutgers.edu

Rutgers Energy Institute
rei.rutgers.edu

Wildlife Damage Control Center
njaes.rutgers.edu/wdcc

Off-Campus Stations

Clifford E. and Melda C. Snyder Research and Extension Farm
Rutgers Center for Sustainable Agriculture, Pittstown
snyderfarm.rutgers.edu

Food Innovation Center, Bridgeton
foodinnovation.rutgers.edu

Haskin Shellfish Research Laboratory, Bivalve
hsrl.rutgers.edu

Lindley G. Cook 4-H Youth Center for Outdoor Education, Branchville
nj4hcamp.rutgers.edu

Philip E. Marucci Center for Blueberry and Cranberry Research and Extension, Chatsworth
pemaruccicenter.rutgers.edu

Rutgers Agricultural Research and Extension Center, Upper Deerfield
njaes.rutgers.edu/rarec

Rutgers EcoComplex - Rutgers Environmental Research and Extension Center, Bordentown
ecocomplex.rutgers.edu

Rutgers Fruit and Ornamental Research Extension Center, Cream Ridge
creamridge.rutgers.edu

Rutgers Plant Science Research and Extension Farm, Adelphia
njaes.rutgers.edu/plantscience

Rutgers University Marine Field Station, Tuckerton
marine.rutgers.edu/rumfs

County Extension Offices

Atlantic County..............609-625-0056
Bergen County..............201-336-6781
Burlington County...........609-265-5050
Camden County..............856-566-2900
Cape May County............609-465-5115
Cumberland County.........856-451-2800
Essex County.................973-353-1338
Gloucester County..........856-307-6450
Hudson County..............201-369-3432
Hunterdon County..........908-788-1339
Mercer County..............609-989-6833
Middlesex County..........732-398-5262
Monmouth County..........732-431-7261
Morris County..............973-285-8307
Ocean County..............732-349-1152
Passaic County.............973-305-5742
Salem County...............856-769-0090
Somerset County..........908-526-6295
Sussex County..............973-948-3040
Union County..............908-654-9854
Warren County.............908-475-6505
2009 NJAES Annual Report
ENVIRONMENTAL SAVINGS

2 trees preserved for the future
5 lbs waterborne waste not created
670 gallons wastewater flow saved
74 lbs solid waste not generated
146 lbs net greenhouse gases prevented
1,117,410 BTUs energy not consumed

The savings above are achieved when post-consumer recycled fiber is used in place of virgin fiber. This project used 1,878 lbs of paper, which has a post-consumer recycled percentage of 10%.

NJAES Board of Managers
The New Jersey Agricultural Experiment Station Board of Managers, appointed by the Rutgers Board of Governors, is an advisory group to the executive dean of agriculture and natural resources and executive director of NJAES. The board consists of a representative from each county nominated by the County Board of Agriculture or Board of Chosen Freeholders; the president of Rutgers, the executive director of NJAES, and the state secretary of agriculture as ex officio members; and a six-member statewide advisory committee.

Atlantic County ......................................................August Wuillermin
Bergen County .......................................................... Guy Nicolosi
Burlington County ...................................................... Raymond Hlubik
Camden County .......................................................... Vacant
Cape May County ...................................................... Warren Stiles
Cumberland County ............................................... Maurice Sheets
Essex County .......................................................... Frank Yesalovich
Gloucester County .................................................... Amy Link
Hudson County .......................................................... Vacant
Hunterdon County .................................................. Meredith Compton, Corresp. Secretary
Mercer County .......................................................... Louis Makrancy, Vice President
Middlesex County ................................................... George Conover
Monmouth County .................................................... Stephen Dey, President
Morris County .......................................................... Carol Davis
Ocean County .......................................................... John Van Pelt
Passaic County .......................................................... Edith Wallace
Salem County ........................................................... Vacant
Somerset County ...................................................... Chan Leung
Sussex County .......................................................... Carladean Kostelnik
Union County ........................................................... Richard Montag
Warren County ........................................................ Anna Sodtalbers

Statewide Advisory Committee
Biotechnology .......................................................... Ramesh Pandey
Community Resources .............................................. Lisanne Finston
Environment ........................................................... Vacant
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