



# ANNUAL SUSTAINABILITY REPORT

FISCAL YEAR 2019

**NC STATE**  
UNIVERSITY

This report highlights NC State's sustainability impact from July 1, 2018 through June 30, 2019.

## From the Chancellor

I'm proud of our NC State community's commitment to Sustainability. NC State ranked 17th on The Princeton Review's 2019 "Top 50 Green Colleges" list, leaping 25 spots from No. 42 in 2018.

While it's always nice to see our efforts recognized nationally, that's not what drives our work. One of the greatest challenges facing North Carolina and the world around us relates to the intersection of water, energy, food, air and human well-being amidst a changing environment. In this 2019 Sustainability Report you will see how NC State is addressing sustainability both in and out of the classroom. Our initiatives are creating a more efficiently-run campus, fostering ground-breaking research and equipping today's student to become sustainability leaders of tomorrow.

As the home of Think and Do, NC State University approaches this grand challenge as an opportunity to create practical solutions that transform lives. I'd like to take this opportunity to challenge each Pack member to take additional steps to continue improving our efforts to preserve and steward our valuable resources. Go Pack!



Dr. Randy Woodson, NC State Chancellor

## From the Sustainability Council

In the 2019 NC State Sustainability Report, you will find a year's worth of sustainability impact.

From data and cost savings to program results and student perspectives, this year's Sustainability Report reflects the latest progress toward the university's 2017-2022 Sustainability Strategic Plan. You will also find examples of sustainability impact in research, teaching, outreach, campus operations and more.

On behalf of the NC State Sustainability Council, thank you for your interest in the university's sustainability efforts. Both on and off campus, our university community is helping create environmentally sound, economically viable and socially just solutions to sustainability challenges.



**Dr. Stephen Kelley**  
Co-Chair, Sustainability Council  
Professor, Department of  
Forest Biomaterials



**Allen Boyette**  
Co-Chair, Sustainability Council  
Senior Director, Energy Systems



**Lindsay Batchelor**  
Interim Director  
Sustainability Office

# ACADEMICS

Goal: Integrate sustainability into education, experiences and research.



## ENVIRONMENTAL FIRST YEAR EXPERIENCE

By bringing students with similar interests together across majors, the Environmental First Year Program encourages students to consider real-world environmental challenges. This year, students in the program attended tours focusing on stormwater management, water quality data in Rocky Branch Creek and a tour of Hodges Lab to learn how wood pellets are created. Students also participated in service learning projects removing invasive plant species and planting trees with the Walnut Creek Wetland Center.

# 27%

of faculty in Poole College of Management have integrated principles of social and environmental impact in courses through case studies, guest speakers, design challenges and practicum projects according to the 2017 - 2019 Poole College of Management *Principles for Responsible Management Education Report*.

## EXCELLENCE IN BIORESOURCES

The *BioResources Journal*, produced by the Department of Forest Biomaterials in the College of Natural Resources, is the largest-volume scientific journal in the world in the category of "Materials Science: Paper and Wood."

## HIGHLIGHTS

Researchers in the College of Engineering developed a technique that uses bacteria to produce “biocement” in coal ash ponds, making coal ash easier to store and **limiting the risk of coal ash spills** into surface waters.

The NC State College of Veterinary Medicine’s global health program is partnering with the Institute Pasteur Dakar in Senegal to **advance infectious disease research in West Africa**. In sub-Saharan countries like Senegal, sanitation and food safety challenges, sharp increases in population densities and intensive animal farming increase the impact and spread of diarrheal disease.

NC State researchers released an **energy storage study** for the N.C. General Assembly about feasibility of energy storage technology use in the state, including grid services that energy storage could provide, the potential economic impact of energy storage deployment and recommended changes needed to address a state-wide coordinated energy storage policy.

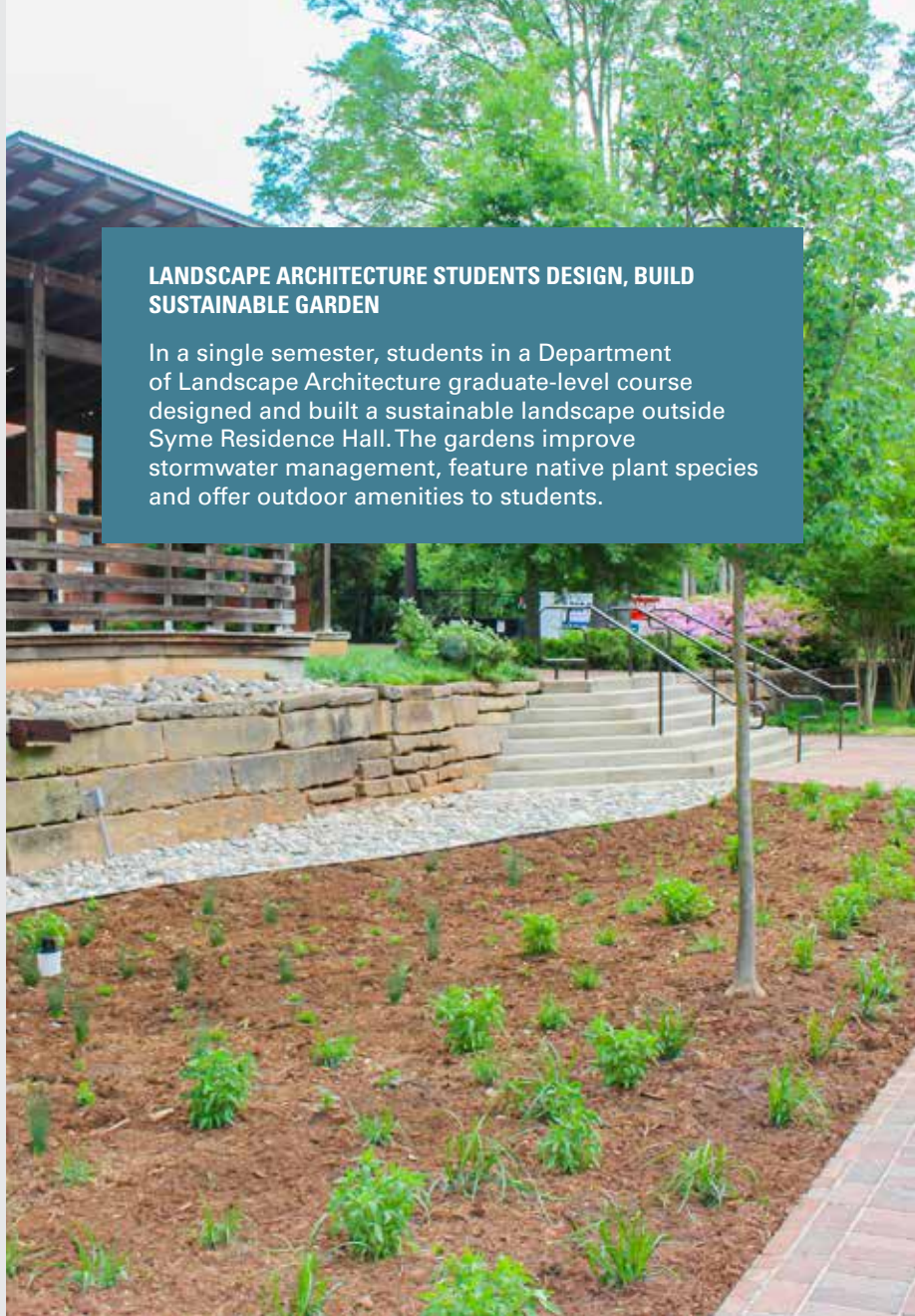
College of Engineering researchers built a medium voltage fast charger for **electric vehicles** that is at least 10 times smaller than existing systems and uses 60% less power during the charging process, without sacrificing the charging time.

Funded by the National Institute for Standards and Technology, the College of Natural Resources is developing online educational modules about **sustainable materials and green buildings**. Working with the Wiki Education Foundation, the college has also used Wikipedia as a tool to enhance students’ critical thinking. Students in that course contributed to Wiki articles that had more than 70,000 views during the spring 2019 semester.

The Poole College of Management’s Business Sustainability Collaborative developed *The B Corp Handbook Instructor’s Guide*. This guide, which helps faculty use the handbook as a teaching tool, includes more than 100 ideas to engage students in **using business as a force for good**.

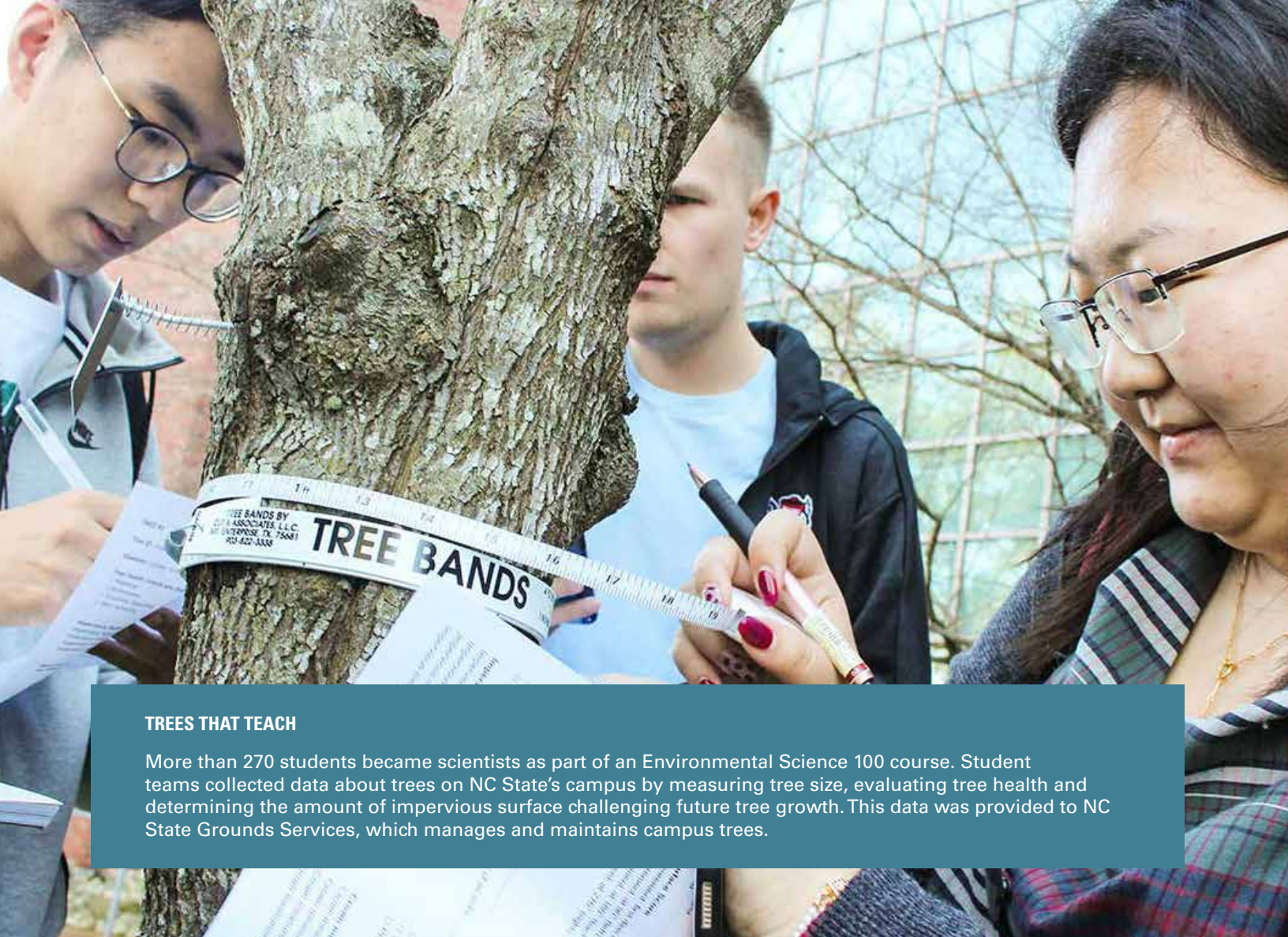
### LANDSCAPE ARCHITECTURE STUDENTS DESIGN, BUILD SUSTAINABLE GARDEN

In a single semester, students in a Department of Landscape Architecture graduate-level course designed and built a sustainable landscape outside Syme Residence Hall. The gardens improve stormwater management, feature native plant species and offer outdoor amenities to students.



### ENGINEERING SUSTAINABLE SOLUTIONS

Several senior design projects in the Department of Biological and Agricultural Engineering featured sustainability. Solutions included a prototype system for breweries to cost-effectively treat wastewater, an economic model that determines the feasibility of transitioning a farm to solar power and a process to boost efficiency of biomass energy processing.



### TREES THAT TEACH

More than 270 students became scientists as part of an Environmental Science 100 course. Student teams collected data about trees on NC State's campus by measuring tree size, evaluating tree health and determining the amount of impervious surface challenging future tree growth. This data was provided to NC State Grounds Services, which manages and maintains campus trees.



### LEED LAB AT WOLF RIDGE APARTMENTS

In fall 2018, about 30 students participated in LEED Lab, a unique interdisciplinary architecture course that provides students hands-on experience as sustainability consultants. Using the LEED Operations and Maintenance rating system as a guide, students developed recommendations ranging from requiring eco-friendly purchasing and installing metered sink faucets to boosting education about composting and planting hardier plants on the building's vegetative roof.



### THREE MINUTE THESIS

Ciera Cipriani, a graduate student in textile chemistry, won the competition for her research on dye molecules in fabric that don't create toxic substances as they break down. Second place winner Engy Shafik, a graduate student in civil engineering, addressed how companies can enable consumer recycling of electronic waste such as cellphones.

## CLIMATE IN CURRICULUM



### REAL-WORLD CLIMATE IMPACT ON CAMPUS

In partnership with the University Sustainability Office, a new interdisciplinary course taught by Christopher Galik within the College of Humanities and Social Sciences applied students' problem solving skills to university climate efforts. Students heard from campus experts about climate mitigation efforts and developed recommendations for future work.

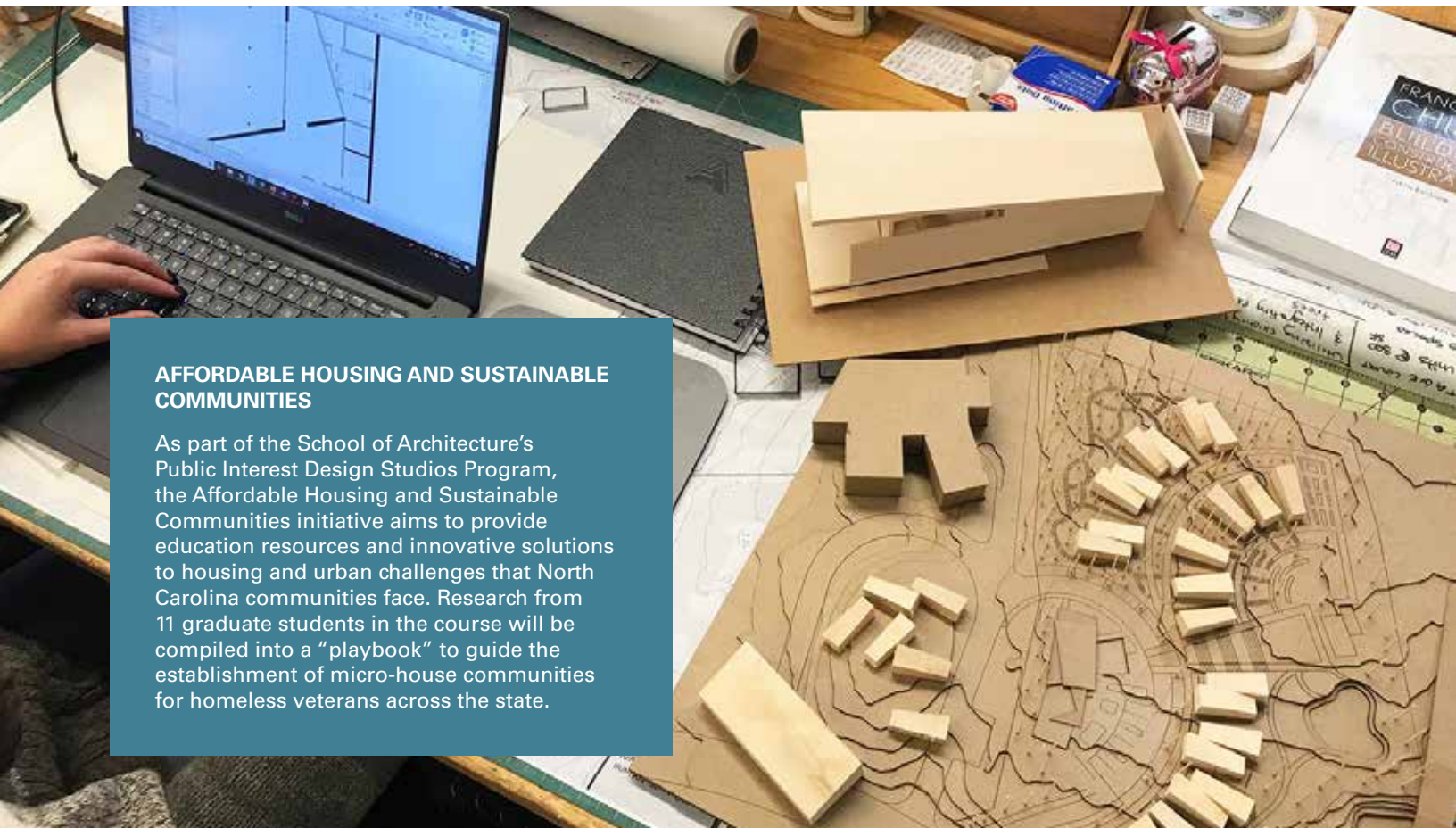


### CREATING A CLIMATE ROADMAP

During the spring 2019 semester, students in an Environmental Sciences senior capstone course received real-world experience by working with the Chatham County Climate Change Advisory Committee to develop recommendations for reducing emissions and adverse impacts of climate change.

“This class was a great way to see how big, complex conversations around a global problem like climate change play out in the very real, very tangible context of our literal backyard.”

-Christopher Galik



### AFFORDABLE HOUSING AND SUSTAINABLE COMMUNITIES

As part of the School of Architecture's Public Interest Design Studios Program, the Affordable Housing and Sustainable Communities initiative aims to provide education resources and innovative solutions to housing and urban challenges that North Carolina communities face. Research from 11 graduate students in the course will be compiled into a “playbook” to guide the establishment of micro-house communities for homeless veterans across the state.

# STUDENT LEADERSHIP

Goal: Engage students in initiatives that promote leadership and service in sustainability.



## NEW RAIN CISTERN

The Facilities Division and students living in EcoVillage collaborated to install a rainwater cistern and pollinator garden in Parents Park near Lee Residence Hall.

# 53

students from NC State and other North Carolina universities participated in B Corp Clinic, which is coordinated by the Poole College of Management's Business Sustainability Collaborative. The students helped 12 companies strengthen their social and environmental impact.

# 125

students in 30 teams participated in Make-A-Thon, a sustainability innovation competition, on Feb. 1-3, 2019. The winning idea was a smart window that adapts to changing levels of sunlight.

## HIGHLIGHTS

### PAPER TOWEL COMPOSTING PROJECT

Zero Waste Wolves student organization began a paper towel composting initiative funded through the NC State Sustainability Fund for residents living in Bragaw and Metcalf residence halls. The student project was the national winner of RecycleMania's Case Study Competition.



### ENTREPRENEURSHIP AT WORK

Student-led OpenGait Prosthetics won the Social and Environmental Impact Category in the LuLu eGames, which is NC State's premier entrepreneurship competition. This new company provides high-quality, low-cost prosthetic solutions.

### IN AND OUT OF THE LAB

As Ph.D. student Megan Boland researches anaerobic digestion and renewable energy, she also made the Department of Biological and Agricultural Engineering more sustainable by initiating a compost program at Weaver Labs.



### LOANS THAT CHANGE LIVES

Students in Net Impact hosted a film screening highlighting microfinance. Through donations raised during and after the event, Net Impact fully funded two entrepreneurial ventures in developing countries.

## SOCIAL INNOVATION

NC State's Social Innovation Fellows worked on several sustainability-related projects including the Farmer's Garment Project, which addresses pesticide exposure to migrant farmers lacking improper protective equipment, and whether waste from CBD oil production could be used as animal bedding instead of going to landfills.



### SHOWER TIMER INSTALLATION IN BRAGAW HALL

University Housing and students from the NC State Stewards collaborated to install 50 educational shower timers in Bragaw Residence Hall, where water use declined by 20% after timers were installed.

## NC STATE STEWARDS

In fiscal year 2019, 26 students participated in the NC State Stewards sustainability leadership program, which is coordinated by the University Sustainability Office. In addition to conducting outreach activities, the Stewards also led several projects to reduce energy and water use on campus, as well as other sustainability initiatives.





#### **GARDEN IN THE SKY**

Students from the Department of Horticultural Science rejuvenated Talley's rooftop garden in fall 2019 by removing weeds and planting vegetables that will be used by NC State Dining.



#### **SUSTAINABLE SPRING BREAK**

On a spring break trip to the Louisiana Gulf Coast hosted by Wellness and Recreation's Outdoor Adventures, students learned about environmental justice topics and coastal land loss. Many other students participated in sustainability-themed Alternative Service Break trips focusing on renewable energy, environmental justice and water.



#### **LONGLEAF PINE PLANTING**

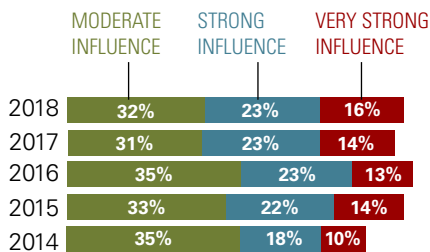
In fall 2019, Grounds Services employees and College of Natural Resources students planted pine tree seedlings on Centennial Campus. Though native to North Carolina, the longleaf pine population is dwindling so this planting was an opportunity to boost its presence on campus.

# COMMUNITY AND CULTURE

Goal: Accelerate a culture of sustainability, inclusivity and well-being on campus and in the community.

71%

of incoming NC State students in 2018 indicated the university's commitment to the environment and sustainability influenced their decision to attend NC State.



## NATIONAL RECOGNITION

In 2018, The Princeton Review ranked NC State 42nd on its 2018 "Top 50 Green Colleges" list with a score of 96 out of 99 possible points. In fall 2019, NC State climbed to No. 17 in the rankings.

The Arbor Day Foundation also recognized NC State University as a 2018 Tree Campus USA for promoting healthy campus trees and engaging the campus community in conservation.

4,200

students, faculty and staff were reached through presentations, events and high-impact student experiences organized by the University Sustainability Office.

239

sustainability-related events on campus during fiscal year 2019.

56

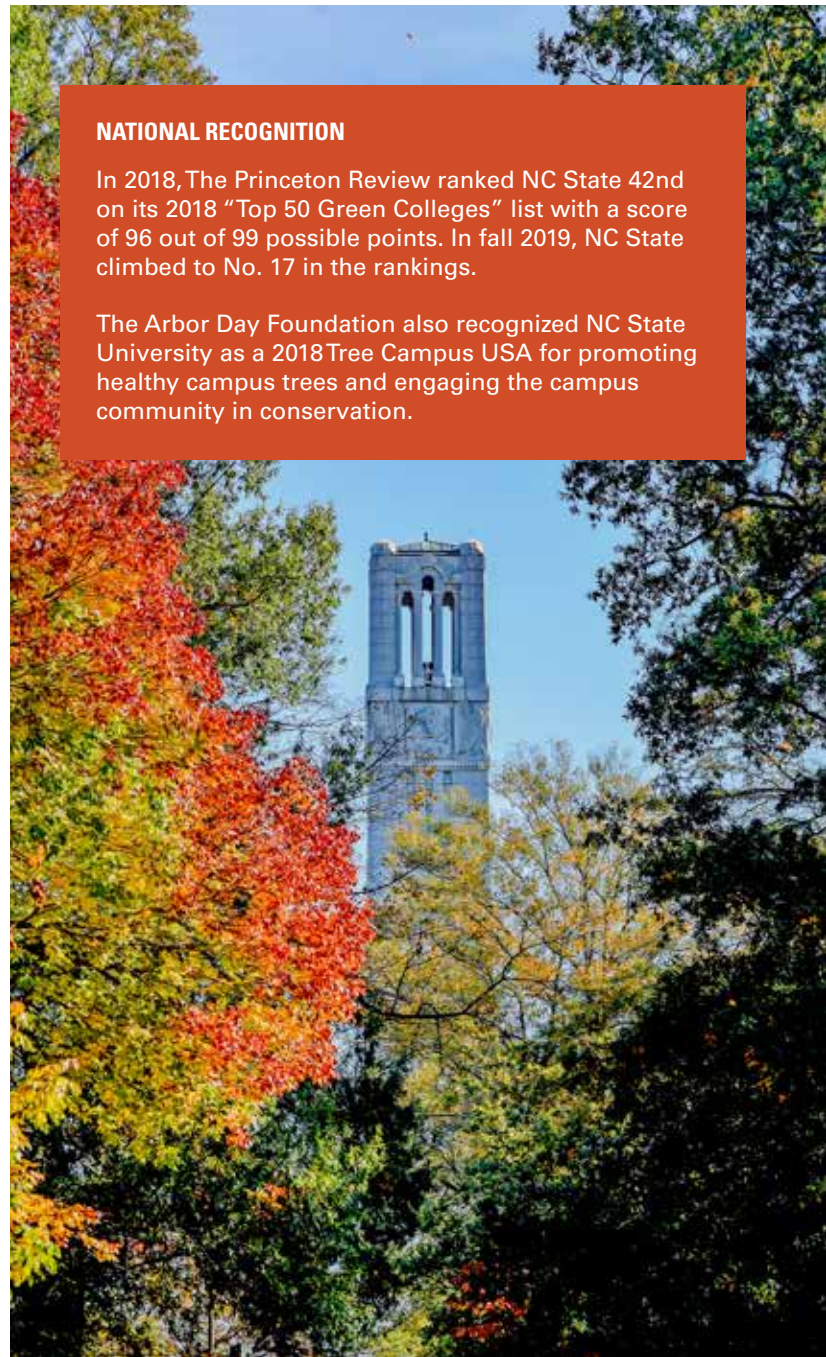
campus events were part of NC State's Earth Month in April 2019.

75

campus events achieved sustainability certification during fiscal year 2019.

3

student organizations achieved sustainability certification during fiscal year 2019.





## SUSTAINABILITY PARTNERS

This campus program provides monthly glimpses into sustainability practices on NC State's campus and beyond. Tours and workshop attendees totaled 423.

79

sustainability-related offerings hosted by the Osher Lifelong Learning Institute (OLLI) at NC State in fiscal year 2019. The program provides non-credit courses, study trips and events for adults aged 50+.

3

N.C. nonprofit organizations received mini-grants from NC State's Center for Human Health and the Environment in fiscal year 2019 to address community environmental issues including coal ash spills and water quality, asthma surveys and environmental health literacy.



## WOMEN IN THE ENVIRONMENT CONFERENCE

The College of Natural Resources hosted the inaugural Women in the Environment Conference in June 2019. This conference introduced young women and non-binary individuals to potential careers in the environmental field.

## HIGHLIGHTS

With a grant from NC State's Sustainability Fund, a rare longleaf pine ecosystem is being revived on campus. The goal is to support a **biologically diverse woodland** with longleaf pine, other fire-resistant trees and a fire-dependent understory.

The College of Humanities and Social Sciences partnered with the Southeast Climate Adaptation Science Center and the African American Cultural Center to host the **RISING exhibit**, which shows how North Carolina's coastal region has transformed over time due to sea level rise.

The Office of Institutional Equity and Diversity hosted a workshop that educated attendees on **environmental justice** and how it affects communities in North Carolina and across the nation.

The Wilson College of Textiles hosted the Cotton and Sustainability Symposium where attendees learned about **textile sustainability**.

After a research study showed there were students experiencing **food insecurity or homelessness**, Pack Essentials was created, enabling students to apply for emergency funding and access other resources to help navigate difficult financial situations.

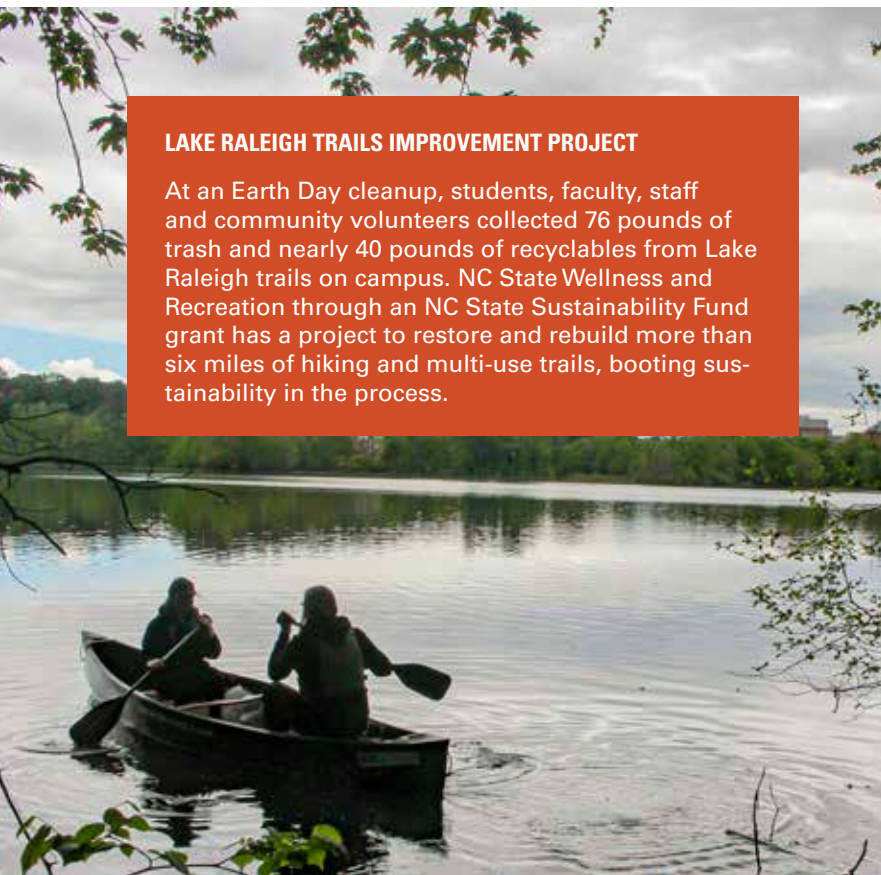
In a multi-year partnership between NC State and VF Corporation engaging Poole College of Management, the College of Textiles and the College of Design, a series called **Purpose Driven Business** began bringing business leaders to speak on campus about sustainability and business.

Two funds were established by Sam and Sherry Cook in the College of Natural Resources to support **recruitment of forestry students from underrepresented groups**.

Introductory courses Recycling 101 and Composting 101 were added to NC State's online training system, enabling all students, staff and faculty to learn about **waste management on campus**.

## LAKE RALEIGH TRAILS IMPROVEMENT PROJECT

At an Earth Day cleanup, students, faculty, staff and community volunteers collected 76 pounds of trash and nearly 40 pounds of recyclables from Lake Raleigh trails on campus. NC State Wellness and Recreation through an NC State Sustainability Fund grant has a project to restore and rebuild more than six miles of hiking and multi-use trails, booting sustainability in the process.





### ACC SPORTS SUSTAINABILITY CONFERENCE

NC State hosted the inaugural ACC Sports Sustainability Conference in June 2019. Attendees from 16 universities spent two days discussing how to integrate sustainability in sports operations, athletic facilities, fan engagement and the student-athlete experience.



### SUSTAINABLE BIOPRODUCTS AND BIOENERGY

The College of Natural Resources and the College of Education collaborated to create summer internships at bioproducts and bioenergy companies and organizations across the country for 15 undergraduate students following completion of two Forest Biomaterials courses. The College of Education also hosted a summer program to equip 15 high school science teachers from rural counties with the knowledge and tools necessary to advance the future of America's bioenergy, bioproducts and the bioeconomy.

### SUSTAINABILITY FUND GRANTS AWARDED

In April 2019, the NC State Sustainability Fund announced recipients of \$165,000 in grant funding for projects including:

- A new orchard, solar-powered irrigation system and rainwater catchment system at the Agroecology Education Farm
- Advancements of campus aquaponics systems
- Energy field trips and internships hosted by the NC Clean Energy Technology Center
- Support for Engineers Without Borders' water projects in Guatemala
- Protocols for multi-year campus studies to ensure sustainability in infrastructure
- A study to convert to hybrid technology on some of NC State's fleet vehicles
- A pilot program to reduce single-use plastic straws
- Sustainability concert by the Raleigh Civic Symphony and Chamber Orchestra
- A new student organization focused on plugging
- Support for a student-designed solar car
- Relocation of the SOUL Garden to Parents Park
- A new Student Energy Club
- Vertical ecosystems in the Biological and Agricultural Engineering Department

These grants are in addition to \$1,000 FastTrack grants that were awarded in December to student projects to reduce waste on campus.

# OPERATIONS, PLANNING AND DESIGN

Goal: Model sustainability through efficient, innovative facilities and operations that educate the campus community and improve the quality of life.

## HOUSEKEEPING EARNS GREEN SEAL CERTIFICATION

NC State is the first university in North Carolina and the sixth in the United States to earn the rigorous certification from Green Seal, a Washington, D.C.-based nonprofit that verifies the sustainability of products and services. To earn the certification, University Housekeeping met stringent requirements and passed an extensive performance review.



## ENERGY-SAVING HIGHLIGHTS

**University Housing** underwent several efficiency-boosting projects. In Bragaw Residence Hall, condenser and pump replacements decreased the building's water use by 50%. In Avent Ferry Complex and North Hall, five domestic hot water systems were upgraded, reducing natural gas consumption by 25%. The buildings' air conditioners were also replaced, improving indoor air quality and energy efficiency.

During winter break 2018, NC State saved more than \$389,000 in energy costs through the annual **Holiday Energy Saving Initiative** to reduce energy use. The savings initiative began in 2004 and has achieved more than \$4 million in cumulative energy savings.

NC State Energy Management is developing an energy dashboard that displays **real-time energy consumption data**. Deployment will begin with a pilot project in fiscal year 2020.



### FREEZER ENERGY EFFICIENCY REBATE PROGRAM

NC State Energy Management incentivized researchers to replace aging, inefficient ultra-low temperature freezers in research labs with high-efficiency models that reduce energy consumption by more than 75%. More than 20 new high-efficiency freezers have been purchased and seven old freezers replaced.

## CAMPUS LIGHTING UPGRADES



### ISENHOUR TENNIS CENTER

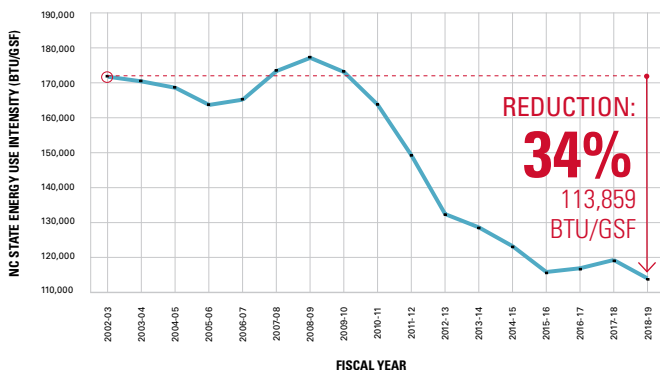
NC State Energy Management and NC State Athletics partnered to install LED lighting in Isenhour Tennis Center and Dail Basketball Center. The LEDs increase lighting levels for student-athletes while reducing energy costs.



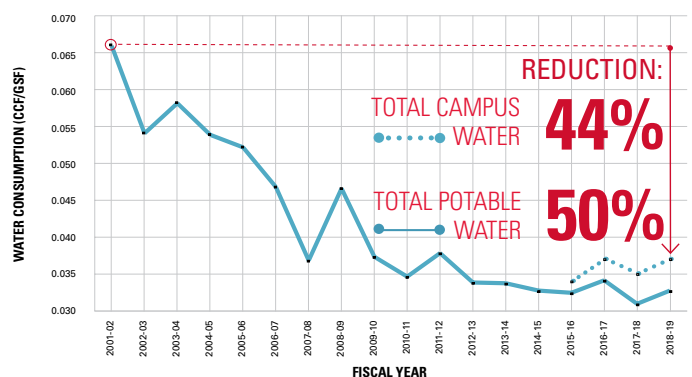
### WITHERSPOON STUDENT CENTER

NC State's largest campus classroom, Room 117 in the Witherspoon Student Center, was upgraded with LED lighting that saves more than \$2,000 in electricity costs each year while being 50% brighter than the old lights.

### CAMPUS ENERGY USE PER GROSS SQUARE FOOT



### CAMPUS WATER USE PER GROSS SQUARE FOOT



## WILDLIFE WELCOME

NC State Grounds Services obtained designation for the Gregg Museum of Art & Design garden to be a Certified Wildlife Habitat from the National Wildlife Federation.

## WASTE REDUCTION HIGHLIGHTS

NC State Waste Reduction and Recycling partnered with strategic campus departments to collect and divert **plastic film** from the landfill. Collection began at the loading docks in Talley Student Union and expanded to Avent Ferry Technology Center, D.H. Hill Jr. Library, Hunt Library, Terry Center, labs at Jordan Hall and the Facilities Division Warehouse. In total, 1,049 lbs of film were collected and recycled.

# 77.3%

of non-hazardous materials were recycled or reused from campus construction and renovation projects. This includes projects such as demolition of the three buildings in Greek Village, as well as removal of the Carmichael Gym Administration Building, which achieved a 96% waste diversion rate.



## ZERO WASTE WOLFPACK

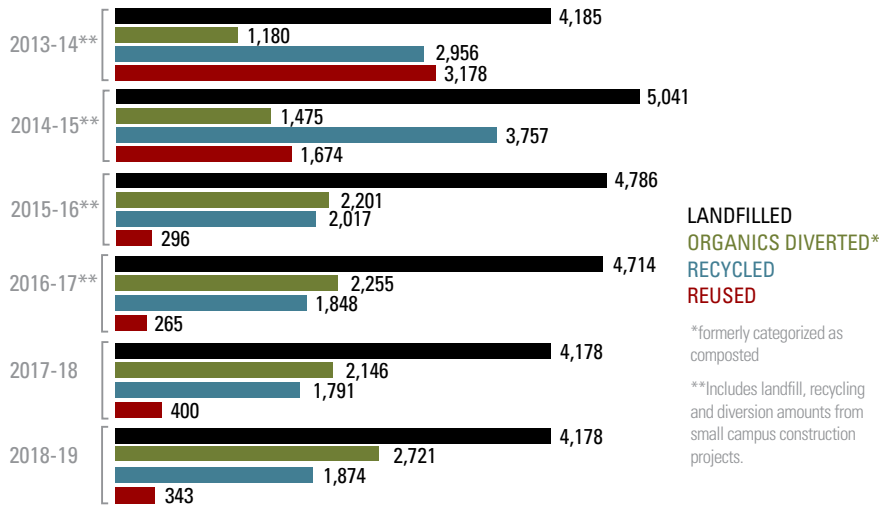
Since the launch of Zero Waste Wolfpack, a recycling and composting collection program at Carter-Finley Stadium, the waste diversion rate during home football games has increased from 18% in 2015 to 44% in 2018. With the assistance of 101 students and 105 community volunteers, 80,545 pounds of recycling and 21,318 pounds of compost were diverted from the landfill. The program also expanded to Dail Soccer Field for every home soccer match.



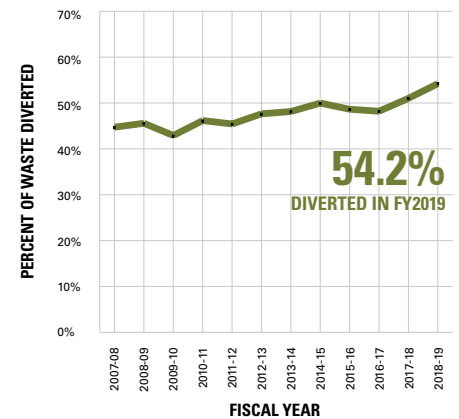
## TEXTILE RECYCLING PROGRAM

The Wilson College of Textiles Sustainability Committee partnered with Green Zone to place textile recycling bins on campus.

## TONS OF CAMPUS MATERIAL RECYCLED, COMPOSTED, REUSED, LANDFILLED

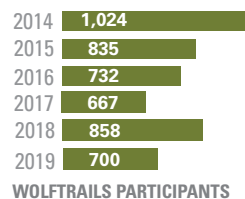


## PERCENT OF CAMPUS WASTE DIVERTED FROM LANDFILL



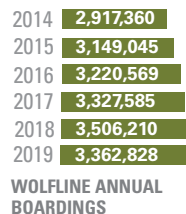
## ALTERNATIVE COMMUTE

700 members of the campus community participated in the Wolftrails Alternative Commuter Incentive Program. Additionally, 4,519 GoPasses were distributed for travel on the regional bus system.



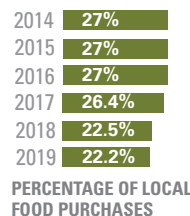
# 3,362,828

passenger boardings on the Wolfline campus bus system during fiscal year 2019.



# 22.2%

of NC State Dining's food purchases were from campus, local or regional sources.



# 9,000

pounds of campus-grown produce from the Agroecology Education Farm were used in NC State dining halls.

# 32,369

pounds of reusable material, food and cleaning supplies were donated to local nonprofit organizations during the Wolf Pack-n-Give move-out waste diversion program. This is an increase of 21.74% in donations from 2018.

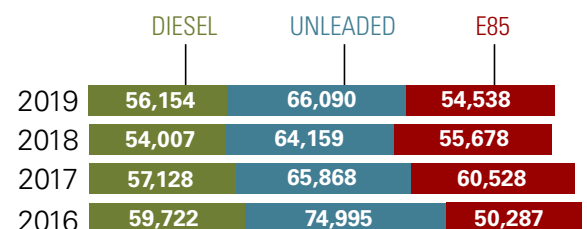


## WINDOW FILM REDUCES ENERGY USE

In a campus facility where researchers grow plants in various environmental conditions, NC State Energy Management installed thermal window film on strategic windows to reduce solar gain from the facility's rooftop greenhouses.

## FUELTYPE USED IN FACILITIES DIVISION\*

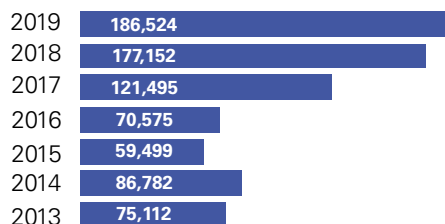
\*The Facilities Division, which includes Motor Pool, is one of NC State's largest vehicle fleets



# COMMUNICATIONS

Goal: Propel awareness and sustainability at NC State and beyond.

## PAGEVIEWS ON SUSTAINABILITY.NCSU.EDU



9,387

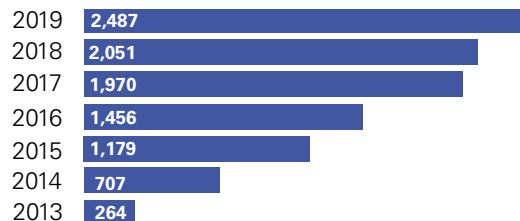
followers on NC State's sustainability social media accounts. This is an increase of over 8% over last fiscal year.

1,555

incoming students in fiscal year 2019 requested information about campus sustainability. This is an increase of nearly 40% over last fiscal year.



## AVERAGE WEEKLY READERS OF NC STATE'S SUSTAINABILITY E-NEWSLETTER



# AWARDS

The Princeton Review ranked NC State 42nd on its 2018 "Top 50 Green Colleges" list and 17th in 2019.

Zero Waste Wolfpack, the recycling and composting collection program at NC State home football and soccer games, was named a **Green Sports Alliance Environmental Innovator of the Year**. The program also won a **Carolina Recycling Association Award**.

NC State's Wolf Pack-N-Give was honored at the **City of Raleigh's 2019 Environmental Awards** for diverting reusable goods and recyclable materials from the landfill during student move-out.

Delta Sigma Theta Sorority Inc. received the **2018 Most Sustainable Chapter Award** during the annual NC State Fraternity and Sorority Life Standards of Excellence Awards.

The **NC State 2019 Sustainability Award** winners are Megan Boland (student category), Dr. Steph Jeffries (faculty category), Amanda Franklin (staff category), Landscape Architecture Department (department/organization category) and the Energy Storage Study for North Carolina (innovation/impact category).

Staff member Dane Johnston in the College of Veterinary Medicine received a **2018 Governor's Awards of Excellence** in Efficiency and Innovation for recycling old wooden desktops from two classrooms.

At the 2018 Citizenship, Service, Networking and Partnerships student conference, student Kyra Levau received the **Community Impact Award** for her efforts to reduce waste on campus.

Staff member Kerby Smithson earned a **2019 NC State Award for Excellence** for his efforts to reduce campus energy consumption.

# SUSTAINABILITY-RELATED CAMPUS EVENTS DURING FISCAL YEAR 2018-2019:

## 2018

July 18 - Social Greenway Bike Ride  
 July 26 - Sustainable Practices in Landscaping Conference  
 Aug 13 - Zero Waste Wolfpack 101  
 Aug 15 - Social Greenway Bike Ride  
 Aug 18 - Agroecology Farm Volunteer Day  
 Aug 20 - Zero Waste Wolfpack 101  
 Aug 21 - MEAS-FER Research Symposium  
 Aug 22 - Solar Car Tour, Volunteer and Service Fair  
 Aug 22-23 - Sustainable Fleet Technology Conference and Expo  
 Aug 25 - Agroecology Farm Volunteer Day  
 Aug 27 - Environmental First Year Info Session  
 Aug 30 - Chevrolet Bolt and Plug-In Chrysler Pacifica Lunch and Drive  
 Sep 1 - Agroecology Farm Volunteer Day  
 Sep 5 - SciBridge Interest Meeting  
 Sep 7 - B Corp Clinic Fall 2018 Kick-Off  
 Sep 10 - Environmental First Year Info Session  
 Sep 15 - Agroecology Farm Volunteer Day  
 Sep 17 - Environmental First Year Info Session, Forestry and Environmental Resources Seminar  
 Sep 18 - Sustainability Fair, Why Zero Waste?  
 Sep 20 - Urban Sustainability in South Asia and Latin America, Tour of Floating Islands Project, Repair Cafe, Zero Waste Wolfpack at Women's Soccer Game  
 Sep 21 - Urban Sustainability in South Asia and Latin America, Fall Harvest and Campout at NC State Farm, Zero Waste Wolfpack at Men's Soccer Game, A/V Geeks at Hunt Library - Hunger in the Land of Plenty  
 Sep 22 - Urban Sustainability in South Asia and Latin America  
 Sep 24 - Environmental First Year Info Session, Forestry and Environmental Resources Seminar  
 Sep 25 - Stand4Forests Trivia Night, Radical Transformation of our Seas

Sep 26 - All Carolinas Meal  
 Sep 27 - Triangle Global Health Annual Conference, Applied Ecology Seminar  
 Oct 1 - Environmental First Year Info Session, Forestry and Environmental Resources Seminar  
 Oct 3 - Creating Sustainable Urban Wildlife Habitat  
 Oct 4-5 - Natural Learning Design Institute  
 Oct 6 - Agroecology Farm Volunteer Day  
 Oct 8 - Forestry and Environmental Resources Seminar  
 Oct 10 - Conservation Challenges Lecture, Agroecology Farm Tour  
 Oct 11 - Amazing Alumni Matt Whitley  
 Oct 15 - Environmental First Year Info Session, Forestry and Environmental Resources Seminar  
 Oct 17 - STEAM Career Expo, My Green Lab Sustainability Summit, Social Greenway Bike Ride  
 Oct 18 - Geospatial Forum with Dr. Casey Dietrich, COMx: Women Driving Social Impact through Entrepreneurship  
 Oct 19 - Coffee and Viz  
 Oct 20 - Agroecology Farm Volunteer Day  
 Oct 21 - Lake Raleigh Service Day  
 Oct 22 - Environmental First Year Info Session, Forestry and Environmental Resources Seminar, Purpose Driven Business Speaker Series with Letitia Webster  
 Oct 23 - Sea to Table  
 Oct 24 - Conservation Challenges: Difficult Choices  
 Oct 29 - Environmental First Year Info Session, Forestry and Environmental Resources Seminar  
 Oct 31 - Triangle Smart Cities Summit  
 Nov 1 - Cotton and Sustainability Symposium, Let's Talk Trash Workshop, Food and Water Security in the Face of Climate Change  
 Nov 2 - Through Our Eyes Raleigh: A Photo Exhibit  
 Nov 4 - Sustainability Showcase: Music of the Mountains,

Music of the Mountains: A Bluegrass Viola Concerto, William C. Friday Award and Lecture  
 Nov 5 - Environmental First Year Info Session, Trends in Onroad Transportation Energy and Emissions Seminar  
 Nov 7 - Conservation Challenges Lecture, PD 696 Environmental Education in the Classroom  
 Nov 8 - Intro to Sustainable SITES, Immersive Scholar - Lucas Swick, Barkalow Lecture with Dr. Seth Riley  
 Nov 12 - Environmental First Year Info Session, Forestry and Environmental Resources Seminar, Sustainability Hacks Workshop  
 Nov 13 - Toxicology Program Seminar, Speed Networking with Social Entrepreneurs, Global Film Series: Living on One Dollar  
 Nov 14 - Wake County Landfill Tour, B Corps 101, Dinner With Purpose  
 Nov 15 - NC State Brickyard Sale, Sustainability Night: Pack Women Basketball  
 Nov 16 - NC State Firewood Yard Sale, Pumpkin Toss  
 Nov 17 - Mystery Service Saturdays: Sustainability Edition  
 Nov 19 - Environmental First Year Info Session  
 Nov 27 - Giving Tuesday at NC State, Toxicology Program Seminar, Robeson Rises: Fighting for Environmental Justice  
 Nov 29 - Applied Ecology Seminar, Geospatial Forum with Dr. Natalie Nelson  
 Nov 30 - Longleaf Pine Tree Planting  
 Dec 3 - Stewards of the Future, Succulent Sale  
 Dec 4 - DIY Holiday Centerpiece, Succulent Sale, Food and Housing Insecurity and Injustice  
 Dec 5 - FoodCon, Succulent Sale  
 Dec 7 - B Corp Clinic Fall 2018 Final Presentations

## 2019

Jan 9 - WellFest  
 Jan 15 - Global Film Series: The True Cost  
 Jan 18 - Mexico's Food System in Transition  
 Jan 22 - Food Recovery Network Interest Meeting  
 Jan 23 - Climate Reality Project Kickoff Meeting  
 Jan 26-27 - Wildlife Rehabilitators of North Carolina Symposium  
 Jan 28 - Extreme Events in NC Seminar  
 Jan 30 - Cleantech Connect Career Fair, Environmental Careers Info Session  
 Feb 1 - Food Recovery Network Interest Meeting  
 Feb 1-3 - Make-A-Thon  
 Feb 2 - Agroecology Farm Volunteer Day, Afternoon Winter Hike at Eno River State Park  
 Feb 4 - Wastewater Reuse & Chemical Contaminants of Concern Seminar  
 Feb 6 - Loans that Change Lives  
 Feb 7 - Home Efficiency Workshop, Current State of Sea Level Rise in NC Seminar  
 Feb 8 - B Corp Clinic Spring 19 Kickoff  
 Feb 13 - Sustainable Business and Social Impact Conference, More Love and Less Waste  
 Feb 15 - Food Recovery Network Training Meeting  
 Feb 16 - Hike and Cave at Worley's Cave, Agroecology Education Farm Volunteer Day, Walk to the Farmer's Market  
 Feb 20 - Wolfpack Way of Life Wellness Fair  
 Feb 23 - Walk to the Farmer's Market  
 Feb 25 - Skunks, Satyrns and Solar Seminar  
 Feb 28 - Drive Green and Save Green Workshop, Repair Cafe, COMx: Arts Innovation, Entrepreneurship & Sustainability  
 Mar 1 - The Past, Present and Future of Environmental Protection  
 Mar 2 - Agroecology Farm Volunteer Day, Walk to the Farmer's Market  
 Mar 7 - Inaugural Wash Mix and Match Networking Event  
 Mar 8-16 - Diversity and Inclusion Adventure Experience  
 Mar 9 - Spring Break Paddling Trip to Florida  
 Mar 13 - Recycling/Shredding Drive on Centennial Campus

Mar 16 - Agroecology Education Farm Volunteer Day  
 Mar 18 - Seminar with Dr. Jordan Kern  
 Mar 19 - Film Screening: Cowspiracy  
 Mar 20-24 - DesignSprint 2019 The Landscape of Climate Change  
 Mar 21 - Agroecology Farm Open House Tour  
 Mar 21-22 WRRRI Annual Conference  
 Mar 22 - Clothing Swap  
 Mar 23 - Environmental Career Day, Hiking at Raven Rock State Park, Walk to the Farmer's Market  
 Mar 27 - Annual Lecture on Architecture + Sustainability: Jean Pierre Crousse, Film Screening: Point of No Return, Sustainable Yard Care Demo and Tour  
 Mar 28 - Human Impacts of Sea Level Rise Exhibit Grand Opening, The Final Frontier, Workshop and Info Session: Sustainability is for Everyone  
 Mar 29 - Water, Climate, Community and Resilience Lecture  
 Mar 30 - Birdhouse Ground Workshop, Walk to the Farmer's Market, Live. Explore. Restore. An IRC Sustainability Celebration  
 Mar 31 - Rock Climbing at Pilot Mountain  
 Apr 1 - Environmental and Microbial in NC Wetlands Seminar, NC State Stewards Open House  
 Apr 1-3 - University Global Partnership Network Conference  
 Apr 2 - Waste Audit  
 Apr 3 - Celebration of NC State Sustainability, Clothing Swap, EcoFilm Series: Milking the Rhino  
 Apr 4 - Energy and Science in Journalism, Green Space is a Social Justice Issue, Learn to Compost, EcoFilm Series: Ghost Bir  
 Apr 5 - Coffee & Viz - Immersive Scholars, Friday Night Farm Campout, EcoFilm Series: Cane Toads  
 Apr 6 - Raulston Blooms!, Agroecology Education Farm Volunteer Day, Walk to the Farmer's Market, Kay Yow Spring Football Game  
 Apr 8 - Environmental Justice: What Does it Mean for NC & NC State?, Forestry and Environmental Resources Seminar  
 Apr 9 - Global Film Series: Bending the Arc

Apr 10 - Save Your Green by Going Green, Movie Screening: Planet Earth on the Brickyard  
 Apr 11 - Farm Feast  
 Apr 13 - Service Raleigh, Walk to the Farmer's Market, Kayaking Trip to Falls Lake  
 Apr 14 - Concert and Showcase  
 Apr 16 - Craft for a Cause  
 Apr 17 - Design + Build Tour, Learn to Compost  
 Apr 18 - Professional Clothing Drive, Climate Change Effects on Crop Pests and Pathogens, Geospatial Forum, Adaptation Options for Sea Level Rise, Sustainable Business Forum  
 Apr 19-21 - Spring Holiday Asheville Adventure Trip, Spring Holiday Backpacking Trip in Pisgah National Forest  
 Apr 20 - Environmental Justice Symposium, Walk to the Farmer's Market  
 Apr 21 - Lake Raleigh Earth Day Cleanup and Service Day  
 Apr 22 - Earth Fair, Centennial Campus Electric Car Show, Environmental Science Class Lifestyle Change Project, Eastman Social Innovation Showcase  
 Apr 23 - Net Impact Lunch'n'Learn with John Deere, Earth Day Every Day, Navigating Ethics/Leadership/Sustainability Workshop, What Did We Find Living on Our Campus  
 Apr 24 - Preparing Students to be Managers of Sustainable Farms, Sewing to Save the Earth  
 Apr 26 - B Corp Clinic Final Student Presentations, Sunset Canoe Trip on Lake Raleigh  
 Apr 27 - Walk to the Farmer's Market  
 Apr 27-28 - CFSA Farm Tours: Agroecology Education Farm  
 Apr 30-May 1 - State Energy Conference  
 May 4 - Walk to the Farmer's Market  
 May 8 - Trillium Sustainability Workshop  
 Jun 2-4 - ACC Sports Sustainability Conference  
 Jun 6 - Climate Change and Sustainability Seminar, Flying with Pandas and Walking in Space Seminar  
 Jun 19 - Centennial Campus Utility Plant Tour

View the Annual Sustainability Report online  
**[go.ncsu.edu/SustainabilityReport](http://go.ncsu.edu/SustainabilityReport)**



100 copies of this report were printed for campus distribution on 100% post-consumer recycled paper that is Forest Stewardship Council Certified.