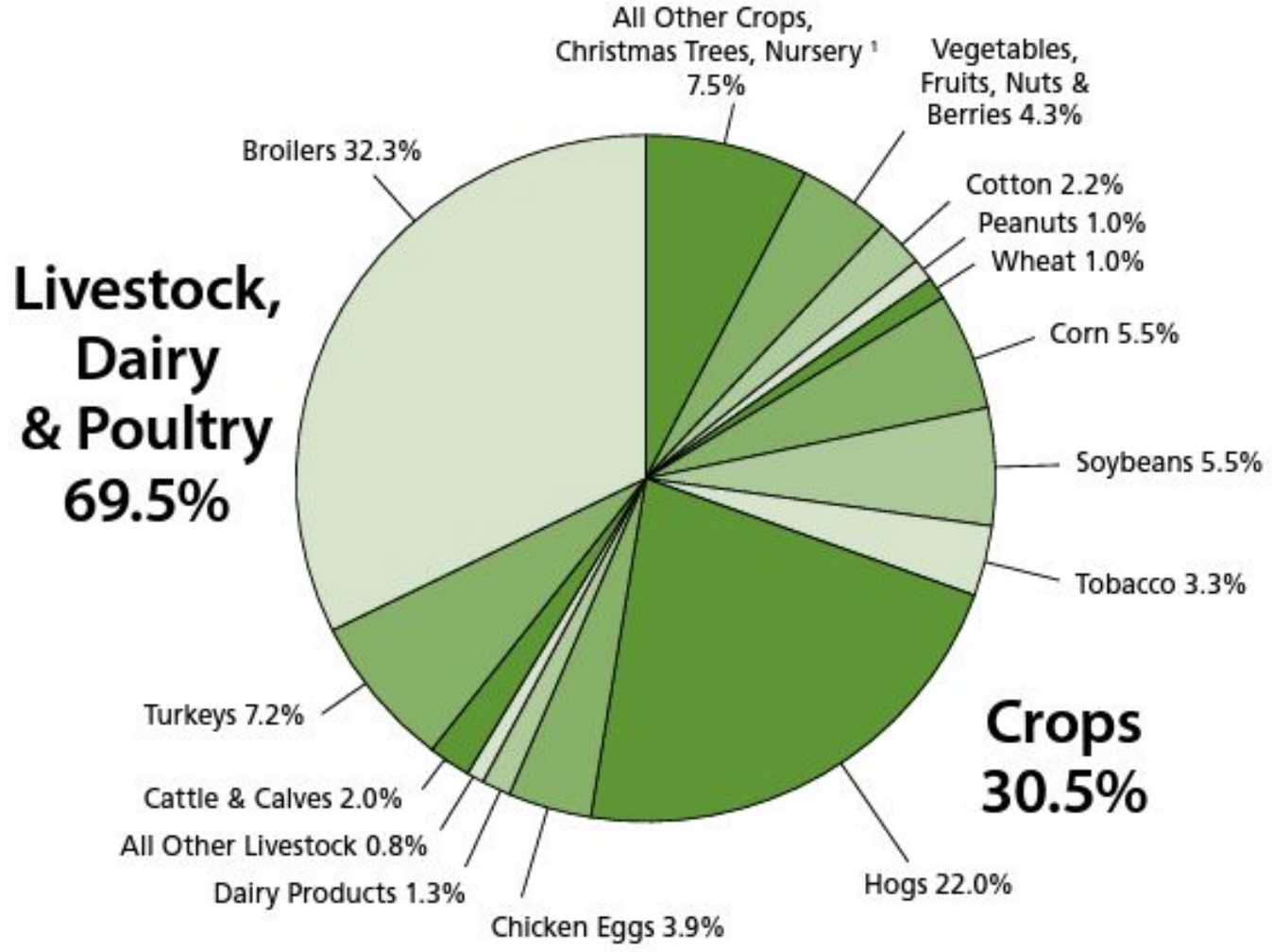
North Carolina Agriculture

Steve Lommel,
CALS Associate Dean for Research
and Director of the NC Agricultural Research Service

Pest Management Solutions for Specialty Crops and Specialty Uses

North Carolina is Geographically and Agriculturally Diverse (2021 data)



~100 Commodity Groups in North Carolina

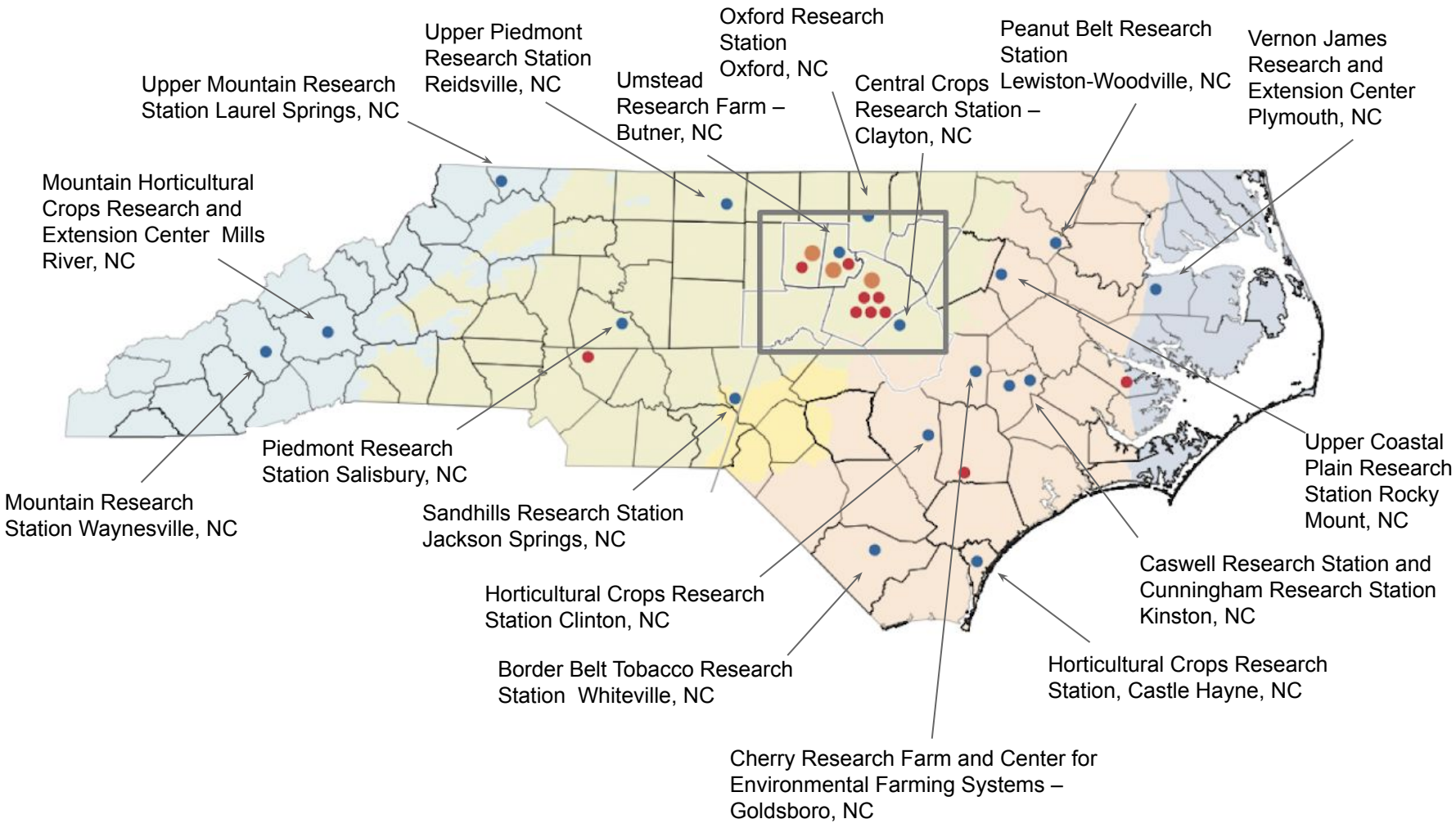
1963-2023 60 YEARS IR-4

$103.2 Billion in FY22

- Acres harvested for fresh consumption: 122,479 acres
- Farms producing fresh vegetables: 3,245 (37.7 acres per farm)
- Acres harvested for processing: 32,927 acres (21.2% of all vegetable production)
- Farms producing vegetables for processing: 585 (56.3 acres per farm)

NC Rankings for Fruit and Vegetable Production

18 Agricultural Research Stations



Scope of Operations

#3 in USDA funding and **#2 for research commercialization**

#22 in the QS World University rankings

12 Departments and **22 Centers, Programs and Institutes**

18 research stations and **4 NC State field lab facilities**

N.C. Plant Sciences Initiative

NC Food Innovation Lab

The IR-4 Project Headquarters (now celebrating 60 years!)

Center for Environmental Farming Systems

Center of Excellence for Regulatory Science in Agriculture

Plants for Human Health Institute

CALS Centers and Service Laboratories

and over 80 active partners in the US and around the world

CALS Metrics (FY22)

- **300 Research Faculty** and **319 Technicians and Support Staff**
- **1,006 Graduate Students** and **96 Post Docs**
- **47 Intellectual Property Disclosures**
- **4 Startups Licensing CALS IP**
- **62 Patents Filed / 35 Patents Issued**
- **86 Commercialization Agreements Executed for CALS IP/Plants/Materials**
- **1,372 Peer Reviewed Research Publications**
- **38 Plant Disclosures Received**
- **50 International Research Projects in 41 Countries**
- **$443,714 Average Competitive Grants Awarded per FTE Research Scientist**
- **$90M in Contracts and Grants Awarded including over $3M in Industry Sponsored Research (over $106M in FY23 with $7.5M in Industry Sponsored Research).**

NC State Plant Breeding Consortium

Carlos Iglesias, Director

- **22 core plant breeding faculty** from different departments developing new cultivars, germplasm and parental lines in more than 40 crop species.
- More than **50+ faculty members** providing skills in DNA-based technologies, genomics, phenomics, metabolomics, statistics, bio-informatics and food quality in addition to field breeding expertise.
- **Full range of research programs and academic programs.**

1963-2023 60 YEARS IR-4

#60YearsofIR4