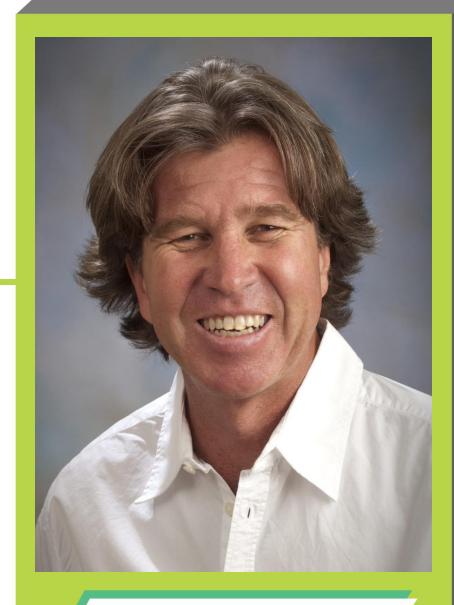
Gene Kelly

Professor of Pedology, Deputy Director of CAES, Colorado State University (CSU)

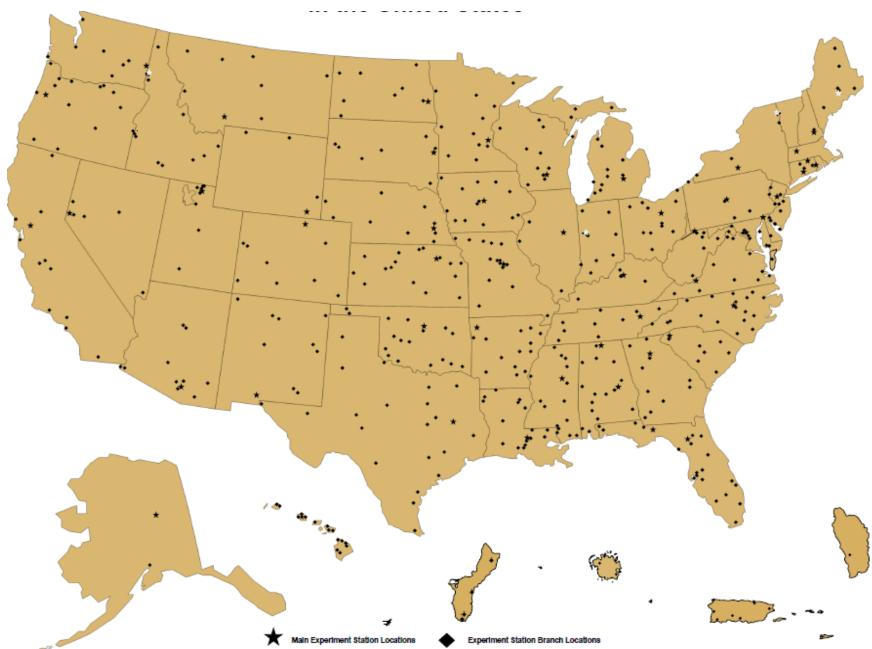


GIGI NA AN

Ag Experiment Station – A Continental Scale System

- Address Impacts of Diverse systems and cultures.
- Evaluate Resiliency to Climate Change.
- A model to address rural and urban issues

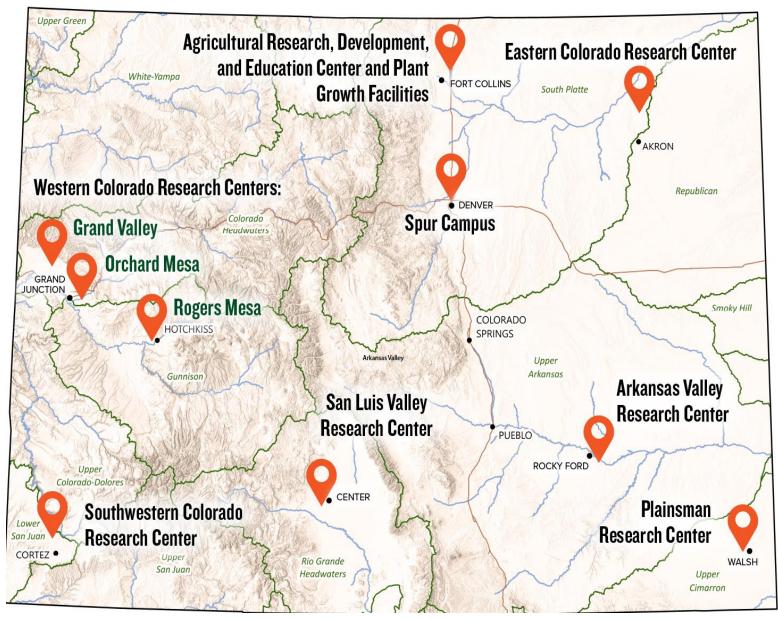




CSU's Statewide Research Centers

Our Focus:

- •Support Local Stakeholders
- •Utilize Science based platform to support policy
- •Participatory Research
- •Community Food Programs
- •Climate Smart Everything
- •Supporting rural communities



SYSTEMS-BASED INNOVATIONS Cultivate and advance systems-based innovations and approaches that bridge biophysical and socioeconomic disciplines to build system resiliency to climate change.

2 PARTICIPATORY RESEARCH PROCESSES Co-create a research continuum that bridges fundamental research to producer knowledge, practice, and experience and incorporates principles of environmental and social justice.

3 CLIMATE-SMART WATER RESOURCE MANAGEMENT Address earth system interactions and the growing challenges created with increasing agricultural water demand.

4 ENERGY SMART AGRICULTURE & TECHNOLOGY INTEGRATION Integrate new energy technologies into diverse production systems to

help achieve carbon neutrality.







CSU Agricultural Research, Extension, Innovation & Education

- Transform food systems to expand access to healthy, affordable food while promoting regenerative and equitable food production.
- Engaged interdisciplinary research will drive systemic changes in food systems by creating connections between the scholarly community, stakeholders, NGOs, state and local governments, and civil society.
- Engaged educational programming will train and empower new leaders with capacities to cultivate diverse, resilient, and healthy food systems.





CSU Spur Agricultural Research, Extension, Innovation & Education

- Enhance the visibility, reach and scale of CSU research and education
- Accelerate student success
- Be a platform for engaging and recruiting diverse populations
- Improve access to and by metropolitan audiences, for mutual benefit
- Support and grow the food and agriculture economy locally and globally
- Foster innovation via colocation, collaboration and community engagement



CSU Agricultural Research, Extension, Innovation & Education Programs

Metropolitan Agricultural Research/Extension

- Applied, engaged and interdisciplinary
- Addressing diverse challenges and opportunities to transform food systems, promote human wellness and advance community well-being
- Lifelong education, training and certification programs to empower new leaders

Agricultural

Education/Outreach

- Well-integrated with research objectives and outcomes
- Complement of theoretical and engaged/experiential learning

- Accelerate agricultural innovation and business development in Colorado
- Engaged research, education, and targeted support services to the ag and food entrepreneurial community

Agribusiness Innovation

Metropolitan Agricultural Research Center

- Green Roof & Controlled Environment Agriculture
- Become the nexus of industry-engaged agribusiness research efforts
- Strengthen the broader Colorado research center network by acting as a bridge between urban and rural agriculture
- Provide cutting-edge research, hands-on teaching applications, industry partnerships, and outreach opportunities in urban ag
- Position CSU as a leading local and global innovator and educational resource in growing fields



Community Food Systems Research & Engagement Food Systems

- Facilitate the development of sustainable community food systems that support health and well-being of all Coloradans
- Create interdisciplinary and nationwide collaborative research opportunities for faculty
- Create experiential learning opportunities for students



Soil, Water & Plant Diagnostic Laboratory

- Expand the impact and visibility of CSU's work to safeguard Colorado agricultural and natural resources
- Engage with rural and urban populations beyond traditional agricultural clientele
- Increase biosecurity activities including education of industry and general public
- Increase local and global collaborations with industry including ag tech companies
- Soil Health and Safety



Global Food Innovation Center

- Engage urban consumers in agricultural production and processing activities
- Promote entrepreneurship and economic development in agriculture and food
- Address real-world issues through collaborative and innovative research
- Deliver extension services/training to industry and community with a focus on food safety and quality
- Provide a unique platform for training undergraduate and graduate students









Culinary & R&D Kitchen

- 2,700 ft2 teaching and shared kitchen space
- Full audio-visual display of instructor station
- Steam, convection, baking and impingement ovens
- Tilt kettle, blast chiller, cold storage.



Sensory Lab & Focus Group Room

- 6 pass-through tasting stations with red light capacity
- 8-12 person focus group room with video and audio recording and two-way mirror observation room.

Agribusiness Innovation & Entrepreneurship

Agribusiness Innovation Center

- Foster the development of agricultural technology companies and entrepreneurial ecosystem in Colorado
- Enable commercialization pathways for transformative technologies in the food value chain
- Leverage CSU facilities and knowledge resources to create new revenue streams for university



Masters in Agribusiness and Food Innovation Management

- Train the next generation of entrepreneurs and innovative business leaders for agribusiness
- Foster innovation in agribusiness to drive economic development in Colorado
- Translate CSU lab and field research into commercially viable products



Temple Grandin Equine Center

- Train the next generation of practitioners in equine-assisted activities and therapies (EAAT)
- Collect data and perform research in EAAT
- Provide recreational, nontraditional, and equine-assisted therapies to the residents of Denver and surrounding areas
- Bring awareness of animal-assisted therapies to a more general public





I THE LOT AND THE I

0 655 VII