

Updated and Enhanced Facilities

Animal Sciences
Phase 1 (renovations): \$13.4M
Phase 2 (additions): \$1.5M needed

Ag Education Complex:
\$3.3 M; \$600K to go!
Equine education center, equine therapeutic riding center

Equine Sciences Complex:
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New AES Leadership

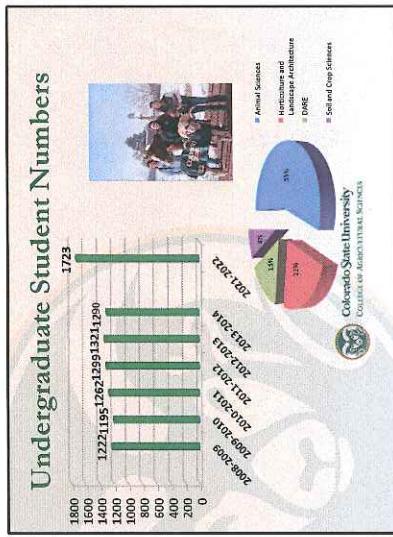
Retired in 2013

- Lee Sommers, Director
- Frank Johnson, Associate Director

Current Leadership

- Craig Beyrouthy, Director
- Jeff Steiner, Deputy Director
- Ryan Abbott, Assistant Director

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Agricultural Experiment Station (AES)

- Administered through CAS
- Mission
 - ❖ Conduct research supporting an agriculture that is economically viable, environmentally sustainable, and socially acceptable

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Initiatives Underway at CSU

- University Collaborations: Wyoming
 - Course exchanges
 - Considering joint faculty position(s)
 - Joint research initiatives
- Enhanced relationship with the National Western Stock Show
- Denver Botanical Gardens
- National messaging initiative with other colleges of agriculture
 - Denver

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CSU Departments with AES Research

- Animal Sciences
- Horticulture & Landscape Architecture
- Bioag. Sciences & Pest Management
- Soil & Crop Sciences
- Agric. & Resource Economics
- Forest, Rangeland, and Watershed Stewardship
- Civil & Environmental Engineering
- Atmospheric Sciences
- Food Science & Human Nutrition
- Health & Exercise Science
- Human Development & Family Studies
- Statistics
- Biology
- Biomedical Sciences
- History



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Research Accomplishments in Crop Improvement

- Potato improvement
 - 60% of potatoes grown in Colorado are CSU developed varieties
 - Certified seed sales both in and out of state
 - Economic benefit: \$1.5M+ per year
- Wheat improvement
 - 65% of wheat grown in Colorado are CSU developed varieties
 - Economic benefit: \$20M+ per year



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College of Ag Strategic Initiatives

Enhancing our Food System

- Assuring food safety and quality
- Improving foods for enhanced human health
- Developing profitable and environmentally sound beef/dairy production systems
- Optimizing agriculture's water footprint



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Enhancing our Environment

- Developing land use systems for sustainable ag/urban environments
- Optimizing agriculture's water footprint
- Specific interventions include decontamination treatments applied sequentially or simultaneously
- Extensive commercial use in U.S., Canada, and Australia



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Innovative Food Safety Research

Multiple Hurdle Technology in Food Safety

- In response to E. coli outbreak in 1992, sought better pathogen control during cattle slaughter
- Specific interventions include decontamination treatments applied sequentially or simultaneously
- Extensive commercial use in U.S., Canada, and Australia



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Impact of Selected AES Research

Research Program

Annual Economic Impact, \$M

Release of improved wheat varieties	20
Release of improved potato varieties	14
Adoption of more intense dryland cropping systems	22
Disease prevention and control in onions	5
Identification of biomarker for brisket disease in beef cattle	10
Decision support systems for livestock	7
Total annual impact	\$76M
Total Colorado AES state funding	~\$12M