


Colorado State University  
College of Agricultural Sciences  
Agricultural Experiment Station

Craig Beyrouy  
Dean, College of Agricultural Sciences






### Updated and Enhanced Facilities

**Animal Sciences**  
Phase 1 (renovations), \$13.4M  
Phase 2 (additions), \$15M needed


**Ag Education**  
\$3.3M, \$600K to go

**Equine Sciences Complex;**  
Equine education center, equine therapeutic riding center



### 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



### Agricultural Experiment Station (AES)

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



### New AES Leadership

Retired in 2013

- Lee Sommers, Director
- Frank Johnson, Associate Director


Current Leadership

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

### CSU Departments with AES Research



- Animal Sciences
- Horticulture & Landscape Architecture
- Biolog. 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



Colorado State University  
COLLEGE OF AGRICULTURAL SCIENCES

### 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
- **Enhancing our Environment**
  - Developing land use systems for sustainable ag/urban environments
  - Optimizing agriculture's water footprint

Colorado State University  
COLLEGE OF AGRICULTURAL SCIENCES

### 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

Colorado State University  
COLLEGE OF AGRICULTURAL SCIENCES

### 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: \$15M+ per year
- **Wheat improvement**
  - 65% of wheat grown in Colorado are CSU developed varieties
  - Economic benefit: \$20M+ per year

Colorado State University  
COLLEGE OF AGRICULTURAL SCIENCES

### Bioenergy Alliance Network of the Rockies

Sustainable biogas/feedback from beetle-killed wood



Colorado State  
Montana State  
U.S. Forest Service  
University of Idaho  
University of Montana  
University of Wyoming

### 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 bricket disease in beef cattle	10
Decision support systems for livestock	7
<b>Total annual impact</b>	<b>\$76M</b>
<b>Total Colorado AES state funding:</b>	<b>~\$12M</b>