Colorado Agricultural Experiment Station
2015 Research Center Conference

Jeffrey Steiner, Ph.D.
Deputy Director
Colorado Agricultural Experiment Station
Colorado Agricultural Experiment Station
A Part of Something Bigger

Our goal ... to more fully engage AES with the larger university mission.

The AES and its historic link to our land-grant mission give CSU an extraordinary vehicle through which to confront these issues, ... new opportunities for even greater impact.

President Tony Frank, June 5, 2012
Colorado Agricultural Experiment Station

A Part of Something Bigger

○ Beef Improvement Center
AES Strategic Planning to Focus for the Future

- Listening to our customers
- Operations and budgets
- Community support and resource development
- Linking campus with the centers
What keeps you awake at night?
What do you need us to give you that would help?
How do you want to be involved in developing the solution?
Listening to Our Customers

- SLVRC – Potato Industry Customer Research Needs Workshop
- Expert review of Viticulture/Enology Program
- WCRC/Rogers Mesa Facility Use Feasibility Study
- CSU State-wide Grazing Industry Survey
Operations and Budgets

Open communication where all levels work together on developing priorities and plans to implement actions.

Center Personnel
Faculty
Open process (no black boxes)
Department Heads
Director’s Office
Community Support and Resource Development

18% of salaries and operating budget comes from community support

Plainsman Agri-Search Foundation

A 41 year partnership

18% of salaries and operating budget comes from community support
“I think it’s getting the little businesses back into gear, where you have two or three people employed so we’re not so seasonally based,” said County Commissioner Julie Kibel, chairwoman of the commissioners’ board.

Only 1,100 acres of wine grapes are grown in all of Colorado – could 40,000 acre be grown here?

Potatoes were last grown here in the 1950’s – could virus-free potato seed grown in Dolores County be part of the solution to PVY challenges in other regions in the state?
Community Support and Resource Development

SCRC Community Advisory Committee

Southwest Colorado Economic Development District
Linking Campus to the Centers

*A Part of Something Bigger*
Status of Industrial Hemp Research
Status of Industrial Hemp Research

2015 CSU Variety Trials Coordinated With Europe:
• Agricultural Research, Development, and Education Center, Fort Collins
• Southwestern Colorado Research Center, Yellow Jacket
Thirty-Year Dryland Agroecosystems Project

Understand the effects of intensified crop rotations on soil quality and system resilience across a **three-site ecogeographic gradient**

Determine **alternative crop performance** across sites

Integrate results into **soil and crop models** to understand the potential for systems under **future climate change scenarios**
Monitoring Crop Water Stress and Remote Sensing

- Weighing lysimeter - $10,000
- Weather station - $5,500
- Atmometer - $550
- Infrared thermometer gun - $100-150
- UAV/UAS technology
- Aerial platform sensing
- Satellite platform sensing
Grasslands, Grazing, and the Cow-Calf Industry

Focal point for coordination of state-wide efforts
Colorado State University
Warner College of Natural Resources
College of Agricultural Sciences
College of Natural Sciences
Colorado State University Extension
Colorado Agricultural Experiment Station
USDA Agricultural Research Service
Greatest Agricultural Land Use Value

Hours Below 0° F
October 2013 to March 2014

Montezuma
Mesa
Delta
Montrose
San Miguel
Dolores
La Plata
Montezuma

High Trellis
Low Trellis

500 1000 1500 2000 2500 3000 3500
Healthy Children-Healthy Families-Healthy Communities

- County Extension Offices
- CHF Rural School-Based Health Centers
- Agricultural Experiment Station Research Centers

Health & Human Sciences
Colorado Agricultural Experiment Station
CSU Extension Service
Public Health
Food Science & Human Nutrition
Horticulture & Landscape Architecture
Human Development & Family Studies
Sociology
Construction Management
CSU Foundation Relations

Construction Management
CM Cares