


**CSU's**  
**Institute for Livestock and the**  
**Environment**

[www.livestockandenvironment.info](http://www.livestockandenvironment.info)

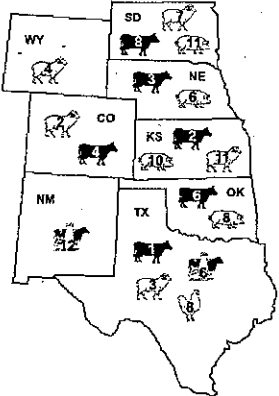
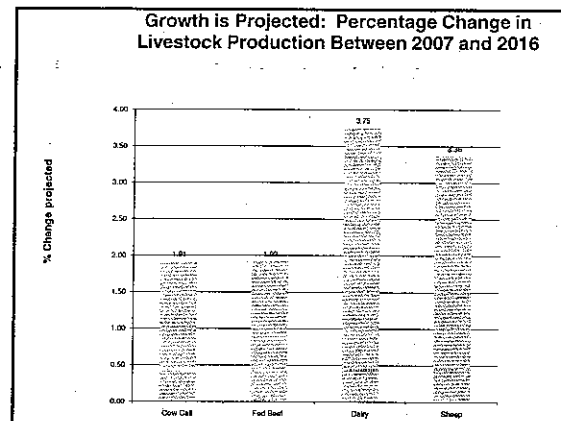


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### Importance of Beef to Colorado Agriculture


- The US is the #1 producer, consumer, and importer of beef in the world.
- On average, Americans eat 67 pounds of beef/person/year.
- Colorado is #4 in the US in the number of cattle on feed.
- Colorado beef brings in \$3.2 billion in annual receipts, 51% of total receipts for agriculture.

### Top 12 Livestock Producing States: Importance of the Great Plains

### ILE Mission

- Problem solving at the interface of livestock production and science-based environmental management
- More than 30 faculty from 5 colleges working together with producers, regulators, and other stakeholders to solve real-world problems



### Efficiencies

- Cattle can make use of rangeland that isn't suited to other types of meat production.
- BUT compared to other types of meat, beef is lower in:
  - Energy use efficiency and
  - Water use efficiency

### Farm Bill

- Interim 2008 Farm Bill rules provide conservation easement benefits through the **Farm and Ranch Lands Protection Program (FRPP)** and the **Grasslands Reserve Program (GRP)**
  - Colorado transferable tax credit encourages conservation easements by land owners

### Greenhouse Gases

- Chicago Climate Exchange: First and only active, voluntary, legally binding, integrated trading system to reduce emissions of all greenhouse gases
- Great potential for livestock producers!
  - Carbon sequestration
  - Methane capture
  - Energy efficiency
  - Renewable energy

### Institute for Livestock and the Environment

- The ILE is working to achieve economic and environmental sustainability, in particular through:
- Optimization of energy and water use efficiencies which will lead to
  - Reduced dependency on fossil fuels,
  - Decreased greenhouse gas emissions, and
  - Improved water conservation.

### ILE Focus Area Teams

- *Air Quality and Emissions*—reducing greenhouse gas emissions and improving carbon sequestration
- *Ecosystems*—integrating solar and wind energy into working ranches (while balancing economic and environmental impacts)
- *Energy Production*—putting manure energy to use (anaerobic digestion, gasification)

### ILE Focus Area Teams (continued)

- *Pathogens*—optimizing animal health and nutrition to improve efficiency while protecting human health
- *Pharmaceuticals*—optimizing pharmaceutical use to improve efficiency while protecting human health and the environment
- *Water Conservation and Quality*—improving water use efficiency in feed and forage production and protecting water quality

### CSU's Institute for Livestock and the Environment

- Grounded in science
- Helping the livestock industry to achieve societal expectations
- Developing solutions that make economic sense
- Partnering with you in preventing environmental problems while promoting economic development and job creation