

**Livestock Cloning: Producer
Applications, Consumer Benefit
BIO 2006**

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U.S. Beef Market



28 Million Fed Cattle Annually



540,000 Harvested per Week



26 Billion Pounds Beef Production



500 Million Pounds per Week

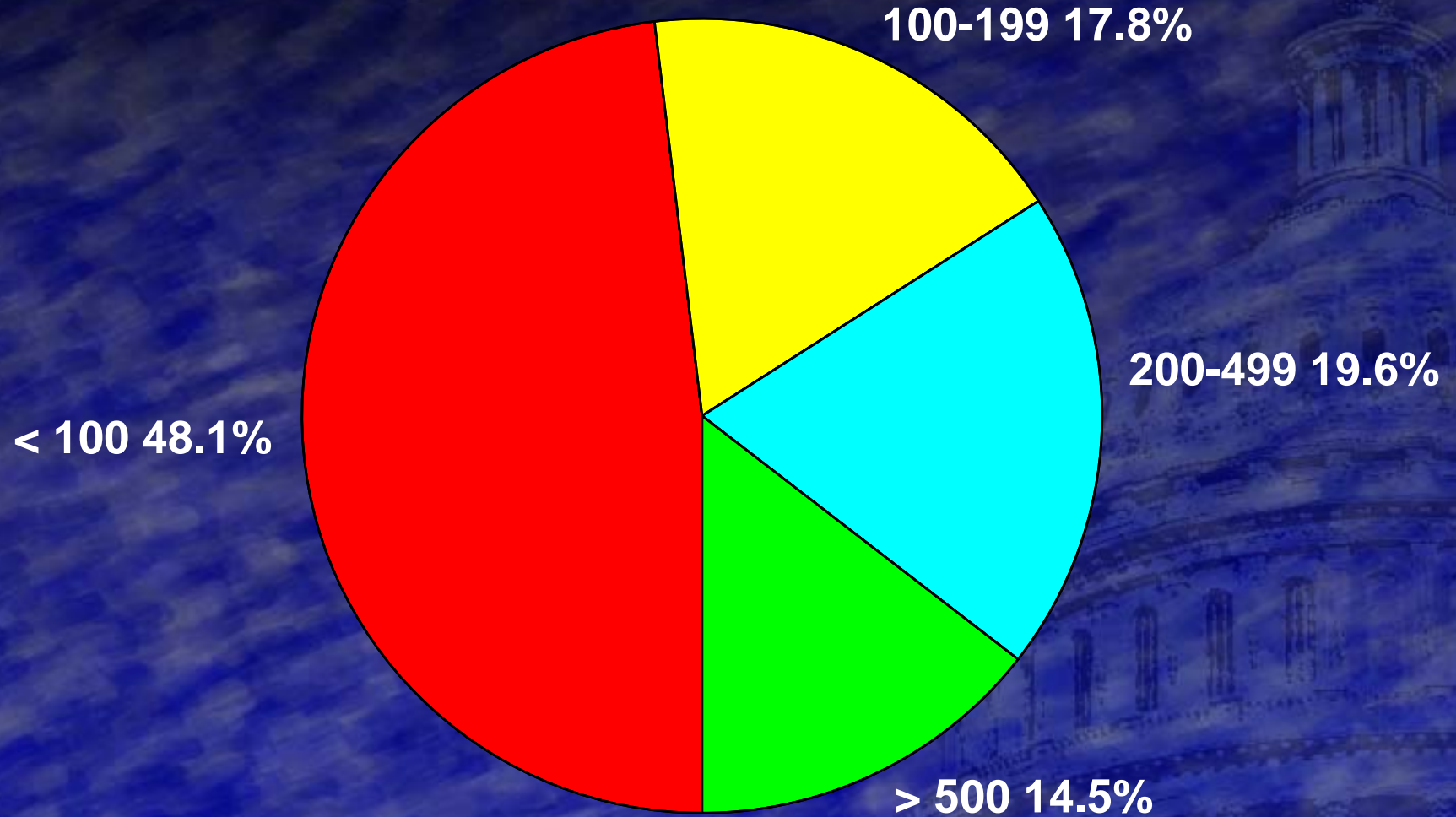


Beef Industry Sectors

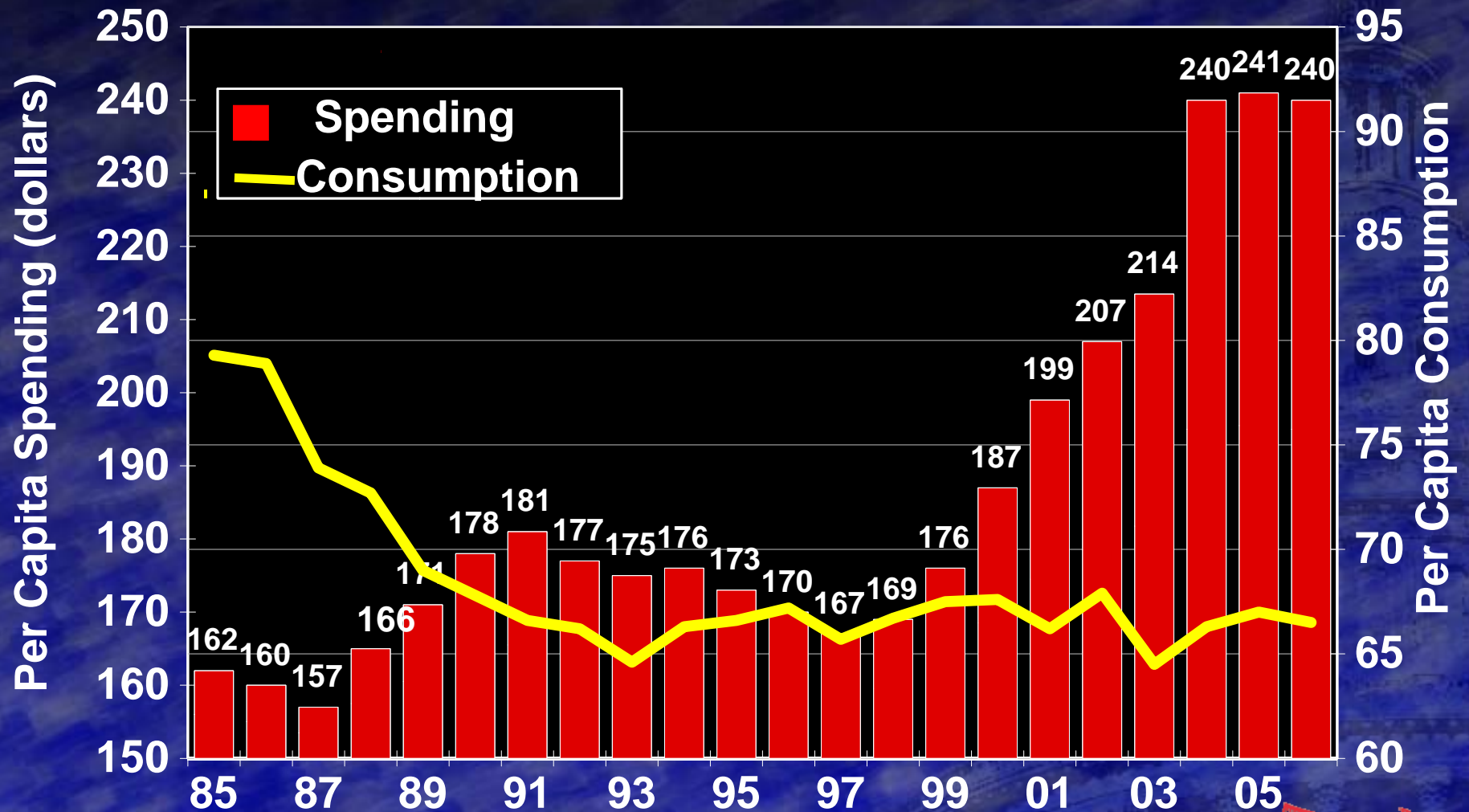
- **Cow/Calf** ↔ 800,000 producers - average herd size 42 head
- **Feedlot** ↔ 50 largest companies have 240 feedyards 65% market share
- **Packer** ↔ 5 major packers 85% market share
- **Retail** ↔ Big 10 retail chain 55% market share
- **Consumer** ↔ 290 million domestic



PERCENT OF BEEF COWS ACCOUNTED FOR BY VARIOUS SIZE OPERATIONS - 2002 CENSUS



Per Capita Beef Spending and Consumption



Source: USDA, 2005-06 projected



Supporters of Science

- Providing a better beef product
 - Genomics – genetic markers
 - Sequencing the bovine genome
 - Instrument grading of carcasses
 - New packaging technologies
 - Safety
 - Nutrition
 - Cloning?

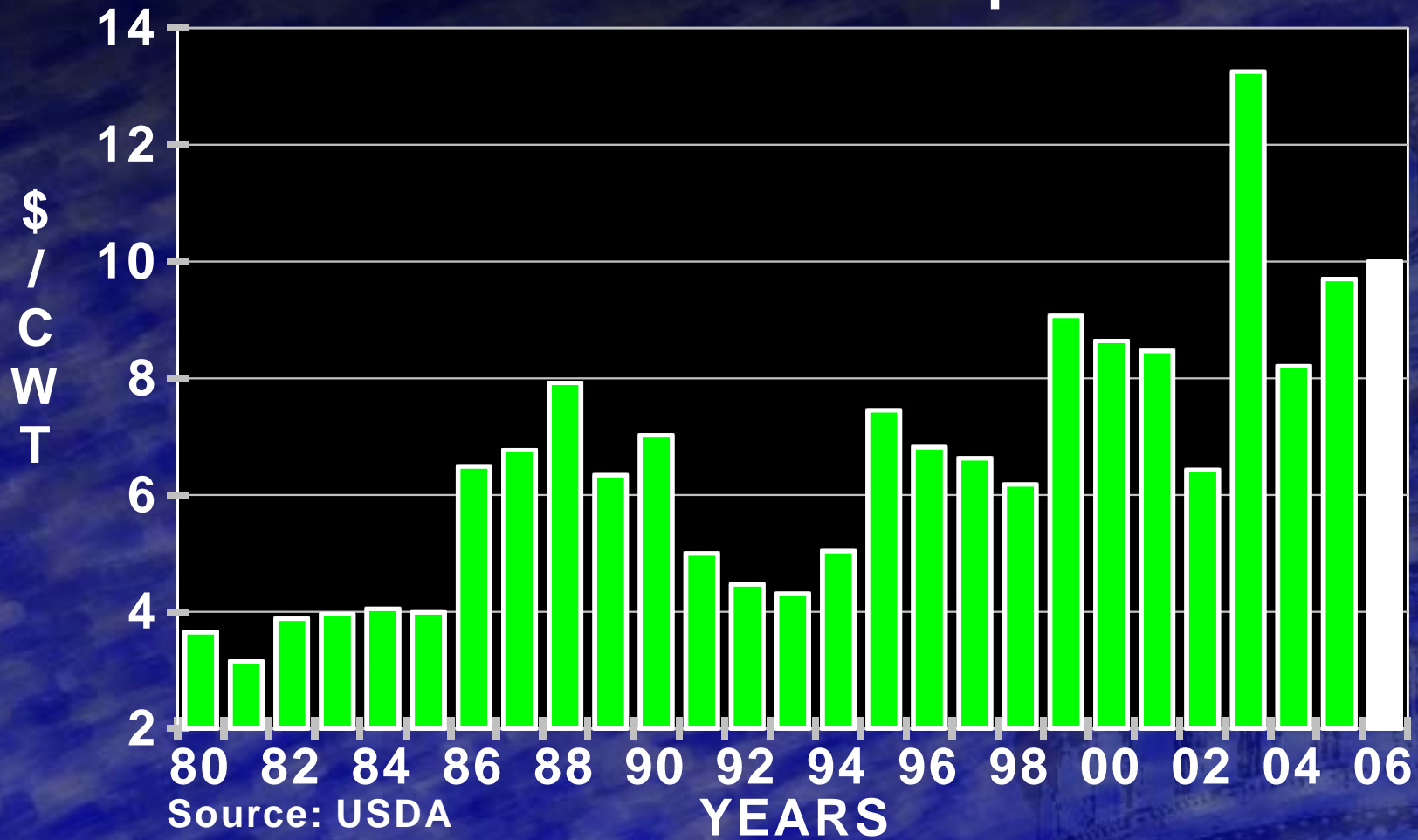


Application in Beef Industry

- Production Benefits
- Consistency
- Higher quality
- Healthier animals
- Safety and nutrition
- Environment



Choice / Select Spread



Source: USDA
2006 Cattle-Fax estimate



Issues?

- Cost prohibitive?
- Marketplace decisions?
- Consumer acceptance?



A wide-angle photograph of a herd of black cattle grazing in a vast, open field. The field is covered in tall, golden-brown grass, and the horizon is a gentle rise under a clear blue sky. The cattle are scattered across the field, some standing and some grazing. The text is overlaid in the bottom left corner.

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