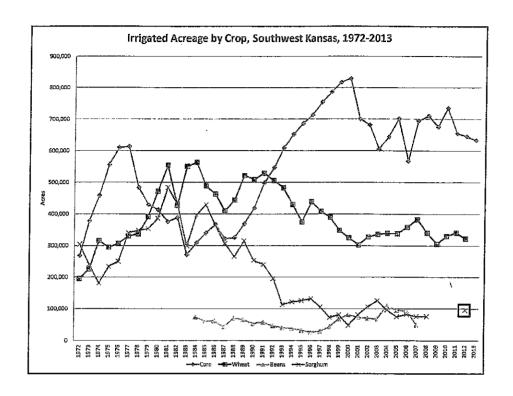
Value of Groundwater for Irrigation and Livestock & Recreation Impact Summary

Josh Roe Assistant Secretary

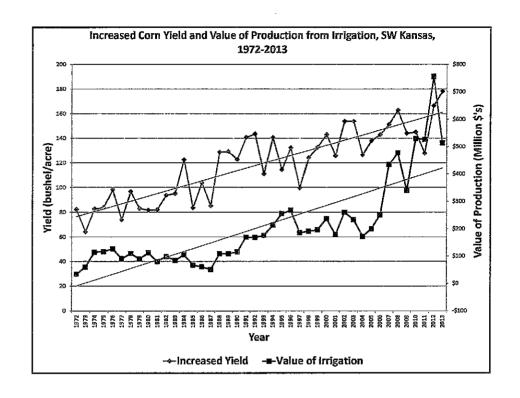


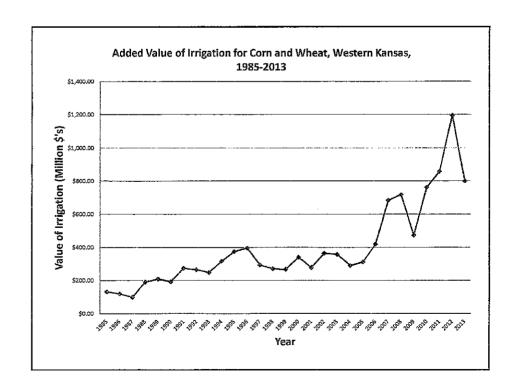
Kansas Farmland Statistics

| Category | Acres |
|---------------------------|------------|
| Land in Farms | 46,137,295 |
| Cropland | 21,043,596 |
| Irrigated (approximately) | 3,000,000 |
| % of Cropland Irrigated | 14.3% |



| Southwest Kansas Corn Pr | oduction Summary, 2013 |
|--------------------------------------|------------------------|
| Irrigated Acres | 633,000 |
| Average Irrigated Yield | 202 bushels/acre |
| Average Dry Land Yield | 24 bushels/acre |
| Yield Difference | 178 bushels /acre |
| Production from Irrigation (bushels) | 112,855,833 bushels |
| Production from Irrigation (\$'s) | \$513,494,042 |





Economic Implications to the Kansas Economy

- Value added from irrigated corn and wheat production is 91% of total crop production for SW KS, \$556,532,840 in 2013.
- Additional production generates income from agricultural producers and input suppliers.
- This income circulates through local and state economies, creating a multiplier effect.

Impact Beyond the Farm

- Direct: Income from crop production
- Indirect: Local spending from input suppliers
- Induced: Changes in household spending from both the above impacts
- IMPLAN software utilizes local economy trade patterns to estimate these effects

Terms

- Dollar and employment effects for each impact type
- Value Added= labor income + business taxes + other income
- Output = intermediate inputs + value added

Impact Summary

| Prince | in Ferreit | | National Local |
|----------|------------|---------------|----------------|
| Direct | 3,715 | \$543,985,280 | \$126,645,414 |
| Indirect | 1,546 | \$204,92522 | \$102,157,438 |
| Induced | 1,263 | \$153,607,146 | \$95,814,643 |
| Total | 6,542 | \$902,584,949 | \$324,617,495 |

- \$902.6 M contribution to the economy,
 ACCOUNTING for value of the crop and inputs
- \$324.6 M contribution to the economy, NOT ACCOUNTING for the value of the crop and inputs

Kansas Livestock Statistics

Cattle and Calves, State

5,850,000

Cattle and Calves, Western KS

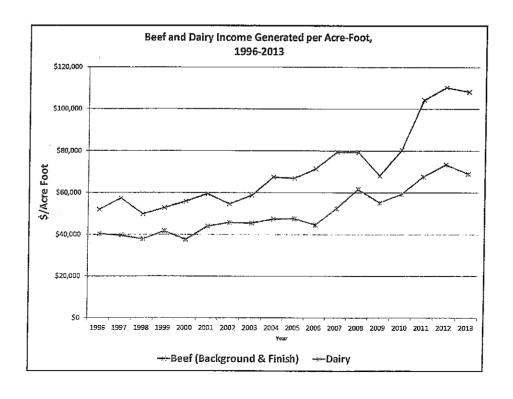
2,816,000

Dairy Cattle, State

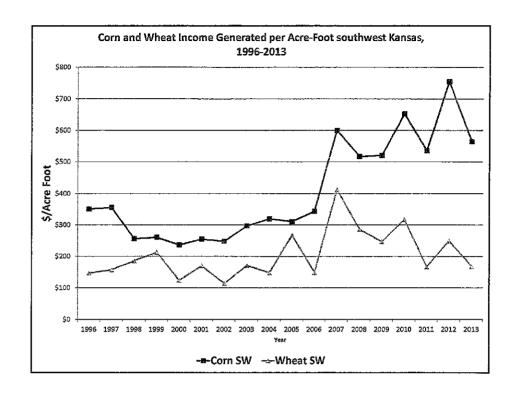
132,000

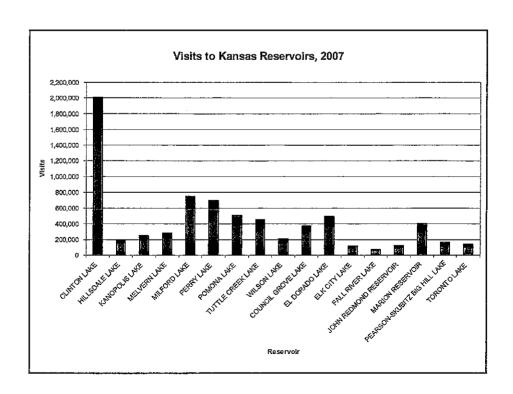
Dairy Cattle*, Western KS

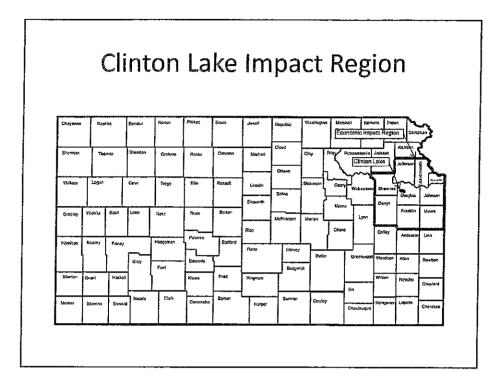
106,920



^{*}Assume 81% of dairy cattle in western Kansas.







Clinton Reservoir Economic Impact

 KSU Study from 2008 conducted by Dr. Craig Smith, now with FHSU

| Inicael Enjoyen | | | |
|-----------------|-----|--------------|--------------|
| Direct | 325 | \$19,300,000 | \$10,000,000 |
| Total | 423 | \$30,400,000 | \$16,400,000 |

- \$30.4 M contribution to the economy, ACCOUNTING for value of all spending
- \$16.4 M contribution to the economy, including only incomes and taxes generated