NSF Food-Energy-Water Nexus

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SD School of Mines and Technology

“Agriculture and it’s Externalities: Irony and Paradox”

Barry H. Dunn, Ph.D.
Dean, College of Agriculture & Biological Sciences
South Dakota State University
Agriculture and its Externalities: Irony and Paradox

- Unbelievable Productivity
- Lessons From the Past
- Unintended Consequences
- We are not In Control
- Who’s Responsible
Unimaginable productivity!
Extremely diverse!
The Hope and the Challenge

CPT Yield increase: 3.13 bu/year; \( r^2 = 0.44^{**} \)

NASS Yield increase: 2.18 bu/year; \( r^2 = 0.79^{**} \)

Clay et al., 2013
Reduce Ag’s Footprint

Clay et al., 2012
Human creativity and potential unleashed!
Improved quality of life & increased longevity!
Historic problems!
Epic proportions!
Unintended consequences!
Irony and paradox!
Whose Responsibility is it to Feed World?
Give a man a fish and you feed him for a day. Teach a man how to fish and you feed him for a lifetime.

-LAO TZU
Land Ownership and Property Rights
We are not in Control
“This House of Sky”
Ivan Doig
Thank You!