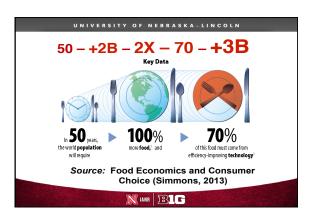
WHY DOES CONSUMER OPINION TRUMP SCIENCE (ANIMAL WELFARE, GMOS, FOOD ANIMALS VS PETS)?

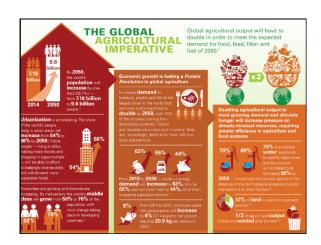
Dr. Ronnie Green

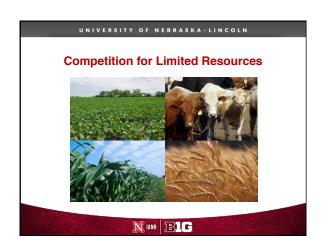
Harlan Vice Chancellor of the Institute of Agriculture and Natural Resources University of Nebraska-Lincoln

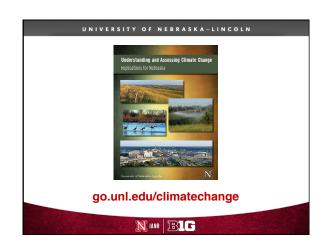


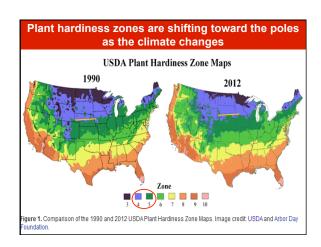


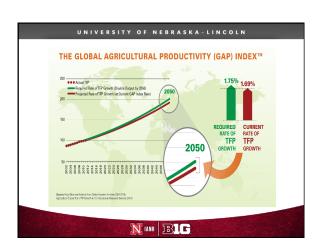


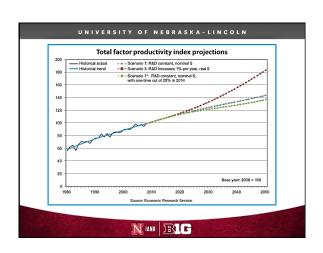


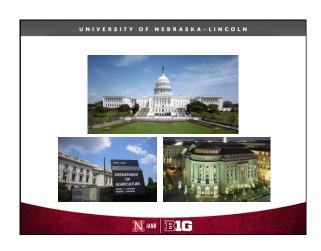






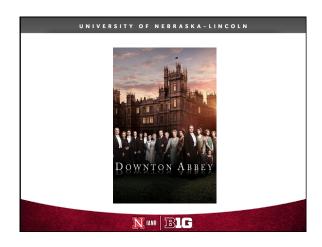


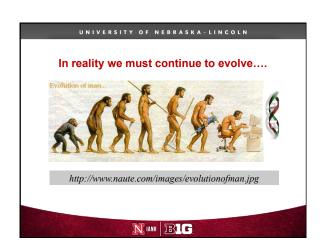


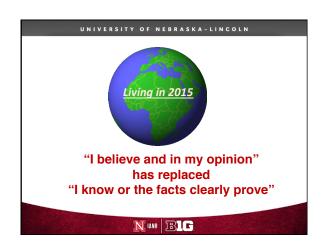












Unlike know, believe covers a wide range of credulity. Know is more constrained; its verity must be demonstrable. Believe needs no more than the statement "I believe" something to be true, leaving it to the listener to supply the factual base — no matter how slim or wobbly — for where to place the belief on the continuum that ranges from pure speculation to pure fact.

UNIVERSITY OF NEBRASKA-LINCOLN

- Disconnect from nature and nurture
- Radical lack of understanding of real biology and science
- Lack of understanding of cause and effect
- Fiercely held anti-belief systems against:
 - BIG
 - CORPORATE
 - INDUSTRIAL / "BIG-AG"
 - CAPITALISM/PROFIT



NIANR BLE

INIVERSITY OF NEBRASKA-LINCOLM

- Selective belief in science
 - e.g. climate science vs biotechnology
- Willingness to sacrifice human life for "beliefs"
 - Anti-vaxxers
 - Food Safety
 - Anti-technology
- Lack of understanding of animal well-being and health (particularly relative to human health)
- Social elitism in place of freedom of choice



NIANR BLC







UNIVERSITY OF NEBRASKA-LINCOLN

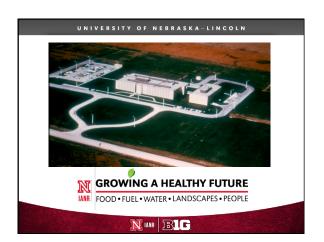
Cattle

Every year in the United States, approximately 35 million cattle are raised for beef, 105 9 million cows for milk, 106 and 450,000 calves for veal, 107

Most cattle raised for beef are castrated, de-horned, and branded, ¹⁰⁸ painful procedures often performed without any anesthesia. ^{109,110} For seven months, calves graze on the range. ¹¹¹ before they are transported to feedlos, ^{112,113} where they are fattened on unnatural diets. ¹¹⁴ Within six months, they reach market weight of 544 kg (1,200 lb). ¹¹³ and are trucked to slaughter. As with other animals to be killed for food, cattle are not given any food, water, or protection from the elements during the journey. ¹¹⁶

Cows in the dairy industry endure annual cycles of artificial insemination, mechanized milking for 10 out of 12 months ¹¹⁷ (including 7 months of their 9-month pregnancies), and giving birth. Many are routinely given hormones to increase milk yield. ¹¹⁸ According to John Webster, "[I]he amount of work done by the [dairy] cow in peak lactation is immense. To achieve a comparable high work rate a human would have to jog for about so hours a day, every day, "¹¹⁹ In the U.S. industry, cows, overwhelmingly Holsteins." ¹²⁰ produce an average of 729 days of milk, ¹²¹ which corresponds to 2.4 lactations, before they are considered "spent" and are sent for slaughter at an average of less than 5 years of age. ¹²² Cows can naturally live more than 20 years. ¹²³

MIANR BLG





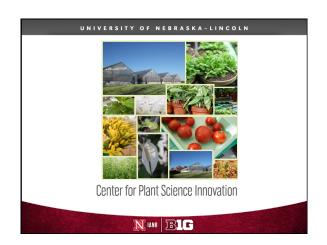
Critical Role of Animal Science Research in Food Security and Sustainability Committee on Considerations for the Future of Animal Science Research Science and Technology for Sustainability Program Policy and Global Affairs Board on Agriculture and Natual Resources Drivino and Earth and Lief Studies NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES

















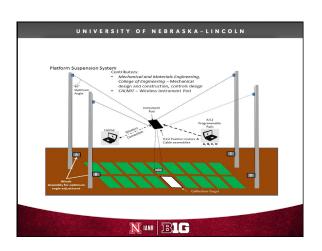


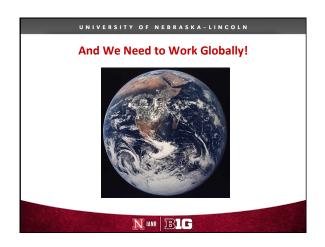


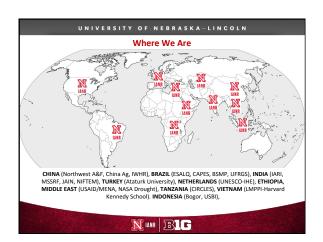


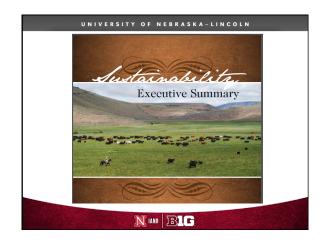


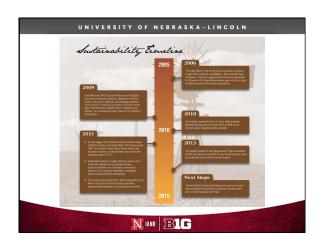






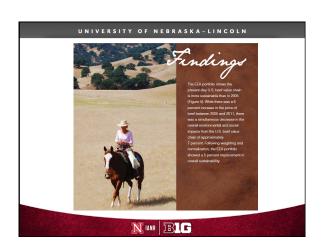






ABSTRACT: A methodology was developed and used to determine environmental footprints of beef cartle produced at the U.S. Meat Animal Research Center (MARC) in Clay Center, NE, with the goal of quantifying improvements achieved over the past 40 yr. Information for MARC operations was gathered and used to establish parameters representing their production system with the Integrated Farm System Model. The MARC farm, cow-calf, and feedlot operations were each simulated over recent instorical wenther to evaluate performance, environmental impact, and economics. The current farm operation included 841 ho of alfalfa and 1.160 ha of com to produce feed predominately for the beef Period 67.500 cows, 1.180 replacement cuttle, and 5.724 cattle finished per year, spring unterlind supplemented through the winter with layour displayed to 1970. The cattern in the real cost of production and talege produced by the farm operation. Feedlot cattle were hackgrounded for 3 mo on they and stage with some grain and finished over 7 mo on a det high in command wet distillers grain For weather year. Old, and the water footprint excluding precipitation was a constant of the production practices of 2005 indicated the water footprint excluding precipitation was a constant of the production practices of 2005 indicated the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a constant of the water footprint excluding precipitation was a cons







NOTES		