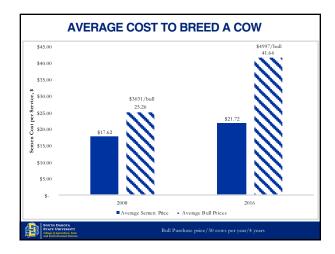


Gender-Skewed Semen in the Beef Industry.

George A. Perry Department of Animal Science, SDSU





1. Bull for heifers 2. Bull to produce replacement heifers 3. Bull to produce terminal/market calves What do you do with calves that are the wrong SEX?

"The most efficient and economical method to facilitate genetic improvement of production traits is through artificial insemination (AI) with semen collected from genetically superior sires, and estrous synchronization and AI remain the most important and widely applicable reproductive biotechnology available for cattle"

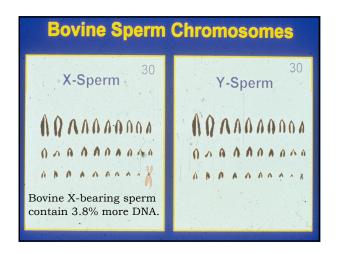
Seidel, 1995

SOUTH DAKOTA
STATE UNIVERSITY
College of Agriculture, Food

CAN GENDER SKEWED SEMEN WORK?

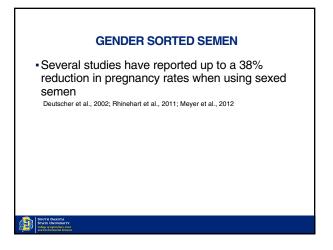
- 78:22 female to male
- 65:35 male to female ratio
- One use of sexed semen following estrous synchronization
 Hall and Glaze (2013)

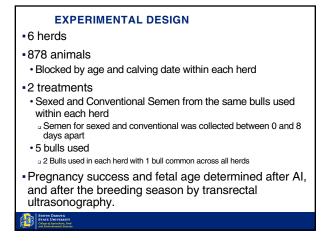
SOUTH DAKOTA STATE UNIVERSIT Cellege of Agriculture, for

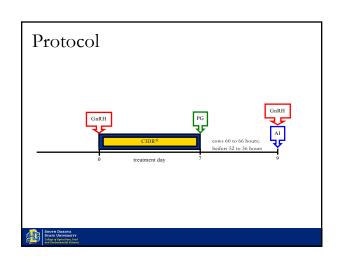


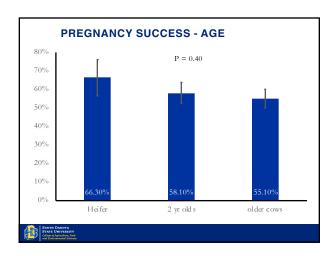
Proven, repeatable and accurate method resulting in live birth of predicted sex offspring. Separate sperm based on DNA content.

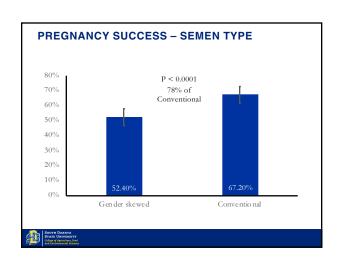
• Gender Ablation Technology • Stained for DNA content • Laser destroys unwanted sex

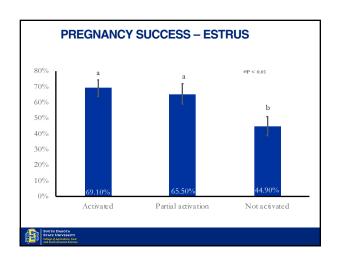


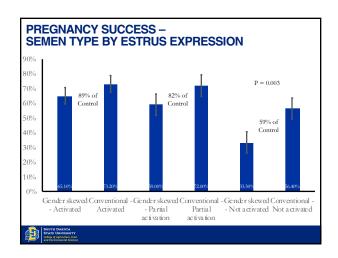


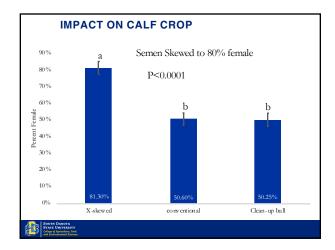












CONCLUSION

- Gender-skewed semen can successfully be used in fixed-time AI protocols among animals that exhibit estrus
- Caution should be used among animals that do not exhibit estrus



