Public Abstract
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Title:ENHANCEMENT OF LONG-TERM CIDR-BASED ESTRUS SYNCHRONIZATION PROTOCOLS TO OPTIMIZE TIMED ARTIFICIAL INSEMINATION RESULTS FOR BEEF HEIFERS AND COWS

A series of experiments was conducted to evaluate alterations to estrus synchronization protocols that may result in enhanced pregnancy rates to timed artificial insemination (AI). In the first series of experiments, a new approach called the 9-d CIDR-PG protocol was developed and tested in mature beef cows (Chapters 2-4) and also evaluated in beef heifers (Chapter 5). In the second series of experiments (Chapters 6 and 7), a modified timed AI approach called split-time AI was evaluated in conjunction with use of sex-sorted semen. Several factors associated with fertility were found to be enhanced among mature cows when using the 9-d CIDR-PG protocol. In addition, pregnancy rates obtained when using sex-sorted in split-time AI programs may be acceptable in some beef production settings.