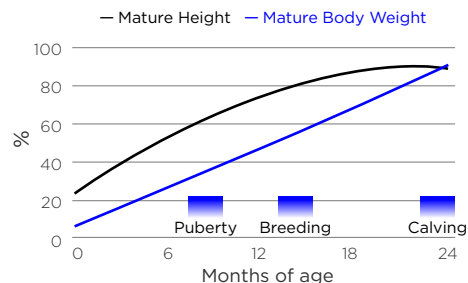


Zinpro® Guide to Fertility in Heifers



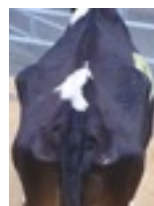
Growth

- Ensure heifers achieve target growth
- Heifers should be the correct wither height and weight by breeding
- 55-60% of mature weight by breeding and corresponding height for breed



Body Condition

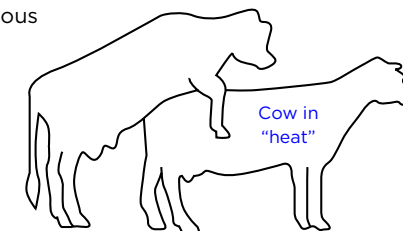
- Body fat percentage plays an important role in cyclicity



Not too fat and not too thin

Timing and Semen Quality

- When daily breeding occurs, carry out a single mid-morning artificial insemination, for all animals in heat that previous evening and/or that morning
- A cow that is observed in estrus can be inseminated immediately rather than waiting 12 hours
- Thawing temperature of semen is critical
- Provide an easy way to hold animals for insemination and minimize stress
- Monitor conception rate by sire and technician



Estrus Detection

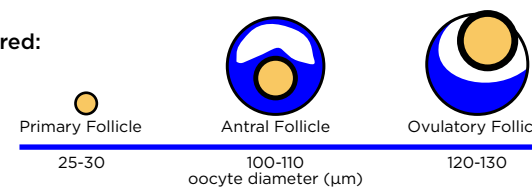
- Do not rely on one method
- Combinations of heat detection methods get the best results
- **Mount detectors, activity monitors, manual observation, tail chalking** are all good ways to detect heat

Heat Stress

- Keep the breeding pen cool in summer
- Heat stress can affect oocyte quality and fertility

Heat stress leads to impaired:

- Oocyte quality
- Follicular growth
- Ovulation



Trace Mineral Status

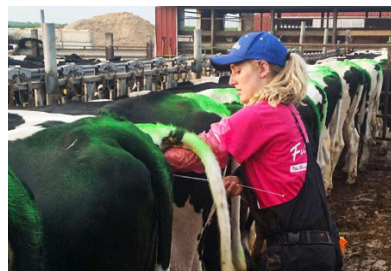
- Feed Zinpro® Availa® Plus from 10 months of age
- Higher quality oocytes
- Reduced embryonic loss
- Longer heifer livability
- Better feed efficiency

Consistency

- Avoid dietary changes between the grower and the breeding pen

Breeding Pen Management

- Move animals in every 2 weeks
- Animals not inseminated in the first 28 days should be synchronized
- Pregnancy check all animals 32 days post insemination
- Non-pregnant animals should be synchronized
- Move out pregnant animals



Health

- Ensure heifers reach the breeding pen in good health
- Facilities and management should focus on preventing respiratory diseases and Digital Dermatitis
- Ensure all vaccination programs are complete by breeding
- Grazed animals may need treating for parasites