Managing Conception
Male – Bull and Insemination
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Which Bull Have YOU

- 5% of Bulls infertile
- 30% Subfertile
- 65% OK
Bull Issues - Conception

- Newly acquired Bull
  - Nutrition
  - Disease
  - Training
  - Fertility/Number of females

- Aged Bull
  - Nutrition
  - Fitness/Feet
Market demands fit bulls.

Time needed to prepare for field service
Nutrition

- Purchase well in advance
- House with another animal—cull cow
- Reduce concentrates down slowly
- Feed during breeding season
- Get to know the bull
The commercial cattle herd
Guarantee Your Market

• Eradicate Disease
• Sell Accredited Stock
• Sell Pedigree Bulls With An EBV Fertility & Health Certificate
Minimum Requirements

• Bulls Sold Free of BVD virus

• From Herds That Are Free Of Johne’s Disease
Vaccinate
Persistently Infected Bull

- Infertile
- Mucosal disease
- Brings BVD into the herd
Training

Small cow fully on heat in a confined paddock
Older Bulls- Feet
Monitor CR’S
Higher fertility shorter time for 90% incalf
Careful of Blues
Technical aspects of Insemination

• Correct semen handling
  - Straw retrieval without compromising remaining semen
  - Fast thawing
  - Avoid Temperature fluctuations

• Optimal insemination techniques
  - Insert semen in uterus
  - Avoid leakage of semen in the sheath and possible complete loss of semen
Insemination

- Live semen
- Hygienically/Gently
- Right Place
- Right Time
DIY Box
Monitor Flask
Immediate Flask change

- Greater Nitrogen Use
- Exceptionally low temp of outer shell
- Frosting of the Flask mainly starts at the neck
Semen retrieval deep in neck

- Neck of flask 13cm long
  - Outside Opening +10 to +20 degrees C
  - Centre of neck -10 to -25 degrees C
  - Inside opening -140 to -160 degrees C

- Every cm big impact
  - Avoid irreversible damage
Goblet Divider/Colour/ID Tags
Itenery Sheet
Straw Removal

Lighting

Deep in Neck

Hold 20 secs max
Fast Thawing

to 35-38

degrees C

25-30 secs

Thawing Kit

or

Flask
Avoidance of cold shock
Avoidance of heat shock
Dry Straw
AI Guns
Uniform original instruments
Components are coordinated exactly
Cutting Straw
Straight cutting of straws with a sharp scissors to avoid crushing
Sheaths

When subjected to direct sunlight and heat can become shortened and deformed which may not be noticed.

Store in cool, dry & dark
Move air bubble from plug end to cut end
Prime gun to get rid of air bubble
Avoid adherence of sperm cells high surface tension
Load Gun/Protect from temp fluctuations
Immediate use of thawed semen
Lubricating Glove
Avoid stress
Correct timing of Insemination

- Latter half of heat and up to 12 hours later
- Go early than late
- ENSURE SEMEN DEPOSITED IN UTERUS
Success

- Continuous Monitoring
- Benchmark
- Attention to detail
- Early intervention