The Livestock Event

Using breeding protocols and fertility visits to improve pregnancy rates in beef and dairy herds







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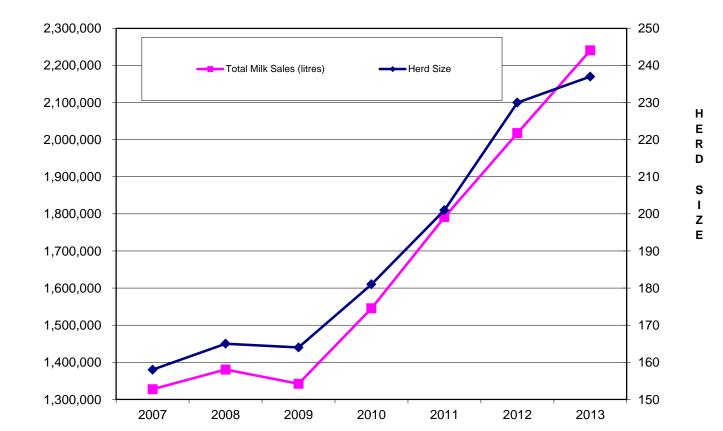
- 240 cows, AYR calving, supplying Waitrose contract
- Tenants of the Duchy of Cornwall
- Moved herd 3 ½ years ago from Oxfordshire to North Dorset.
- Aim to breed high quality, high yielding pedigree Holsteins with an emphasis on health and fitness traits







Longmoor



YEAR

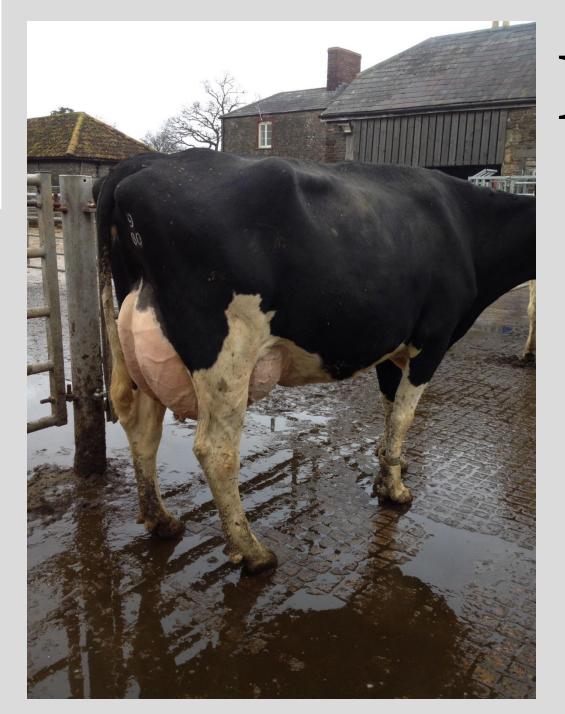
Can we maintain fertility as yield increases?

Current 12 monthly facts: Pregnancy Rate: 42% Calving to first service: 69 d Calving to conception: 86 d 100 day in calf rate: 50% 200 day in calf rate: 85%

Submission Rate: 60%







Longmoor

Goldwyn Bridget

EX 90 PLI 171 Predicted yield 4th lactation: 13,557 litres 5%BF, 3.3%P, 18 SCC





Fertility at Longmoor Farm

- Weekly routine NSB, PDs and Fresh calver checks (temperature and vaginal exam), 21-28 DIM check.
- Important to not be economical on the frequency of vet visits!!
- Fresh calver checks essential and ketosis monitoring

Highest risk period for a cow is around the time of calving.

Getting the transition period right 3 weeks before and 3 weeks after calving is essential all year round!







Benefits of routine fertility monitoring

- Monitor close calvers diet, intakes and BCS
- Highlight struggling fresh calvers
- Monitor resumption of uterine involution and ovarian activity
- Reduce days open by prompt US PDs





Uterine involution

- All cows have an infection in their uterus post-calving
- Their ability to fight this infection depends on:
 - Level of infection Metabolic disease Twins / Difficult calving

Quick detection and useful treatment of metritis and *whites* is essential











Resumption of ovarian activity



- All cows resume follicle growth 3-5 days after calving
- 50-80% of dairy cows (20-35% beef cows) ovulate their first dominant follicle
- The more cycles a cow has prior to the start of the breeding period, the larger the dominant follicle and the more hormones it will secrete at the start of breeding
- Resumption of ovarian activity influenced by:
 - BCS loss and BCS at calving
 - Uterine disease
 - Metabolic disease
 - Diet
 - Presence of calf/suckling (beef)



Importance of BCS at calving in beef/dairy cows:

- Good BCS beef cow, ovulation of Dominant Follicle 3.2 cycles after calving
- Poor BCS beef cow, ovulation of DF 10.6 +/- 1.2 cycles!!





Oestrous detection

- Use a three week diary
- Record early heats
- Present cows with history of whites and metabolic disease prior to end of VWP
- Don't rely on heat detection aids alone!! Use your eyes!









Inseminations

- Al vs bull
- Breed for the correct number of replacements, if housing space is limited.

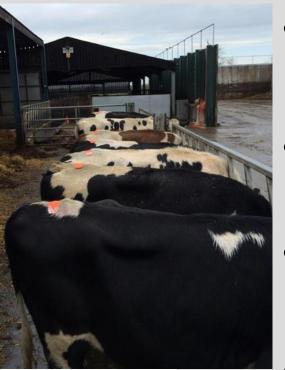


- Check the figures of all AI technicians on farm. Refresher courses are ALWAYS useful, however good you think you are!!
- Make sure everyone follows the same semen thawing protocol
- Keep your AI flask water clean





Breeding protocols can supplement oestrus detection



- Not every protocols is suitable for all cows/heifers
- Dairy Heifers and Beef cows/heifers have three follicles develop every 21 days
- Dairy Cows have two follicles



• Do not use Ovsynch on dairy heifers or beef animals



Breeding protocols

- Dairy heifers synchronisation: 2 x PGF injections 11 days apart,
 - Serve 72 hrs after 2nd PGF
- Dairy Cows: Ovsynch
 - GnRH day 0, PG day 7, GnRH day 9,
 - FTAI 72 hrs after PG





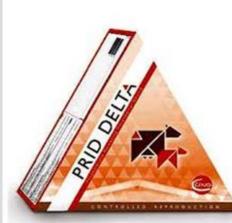


Lutalyse



Breeding protocols

- Dairy cows and Beef cows: **CIDR/PRID protocols**
 - Day 0 GnRH and CIDR/PRID
 - Day 7 PG
 - Day 8 CIDR/PRID out
 - 36 hr later inject GnRH
 - AI 16-20 hrs after GnRH





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- Can you use breeding programmes for tightening up your calving pattern?
- Are these protocols appropriate for the block calver?
- Which is the better protocol to use?
- Should you serve to any detected heats in the middle of the OvSynch programmes?
- Double Ovsynchs can help reduce twinning rate!





Don't forget your heifers!

- Heifers will get you out of a lot of trouble if you are struggling to maintain a tight calving pattern
- Get the best growth rates possible during the first two months of life
- If block calving, get them to calve two weeks early
- These heifers have your highest genetic potential so breed wisely!!





Repeat breeders

- Low progesterone reduces growth of embryo, which increase the risk of embryonic mortality
- Try CIDR/PRID application 5 days after service (leave in for one week)











• Post Natal Check ALL cows

 Don't assume that cows are clean and are 'about' to come into heat – get them checked!



 Use synchronisation protocols to supplement submission rate

