Tightening the calving interval within commercial beef herds can reduce costs and improve margins. Chloe Palmer reports on how this can be achieved.

### Tighter calving period greatly improves beef herd profitability

n extended calving interval is one of the main factors leading to reduced weaning weights and higher feed costs, according to industry experts.

Keith Cutler, partner with the Endell Veterinary Group, Salisbury, and past president of the British Cattle Veterinary Association, suggests calving intervals can provide a good indication of the standard of herd management and overall herd health status.

He says: "Calves born early in the calving period tend to be healthier so will grow better and round for a year, but either way be heavier at weaning.

"Consequently, they will be more valuable.

Mr Cutler refers to a selfperpetuating cycle where cows which calve early have a longer time period for uterine evolution and for a return to ovarian cyclicity resulting in higher fertility. Similarly, for cows calving later in the period, the problem is exacerbated year-on-year.

"Cows which calve later in the period will slip each year and eventually fail to get in calf.

"They will then either have to be culled or they must be carried they are a significant cost to the herd."

Mr Cutler refers to management of cow nutrition, bull fertility and infectious disease control as the three key management factors affecting the length of the calving period.

"Cows should be on a rising plane of nutrition prior to bulling to promote cycling the ovaries and to improve the quality of eggs. For spring-calving herds, this critical time usually coincides with a flush of springgrass which is ideal.

"On average, one in 10 bulls

on-farm is sterile and an additional two in 10 are sub-fertile,

is highly recommended to rule out the risk of infertility." Action Identifying whether infectious

disease is present within a herd is also essential so appropriate action can be taken.

so a pre-breeding examination

Mr Cutler says synchronisation and artificial insemination

farmers should be wary of viewing them as a quick-fix solution because management of a herd must be 'spot-on' for this strategy to be effective.

He says: "Synchronisation and AI can be particularly useful for tightening up the tail-end of the calving pattern.

'Synchronisation secures the best possible time for service and AI eliminates the risk of an

infertile bull as it enables the best genetics to be sourced." Simon Marsh, a principa

lecturer at Harper Adams Uni versity, shares Mr Cutler' concerns about the impact of ar extended calving period for bee producers and says the cost to the industry is considerable.



He says tackling issues to achieve compact calving period: will have wider benefits for animal welfare and busines profitability: "Herds recording a calving period of less than nine weeks are weaning calves at an average weight of 47kg greate than herds where the calving period is 18 weeks or more. Calv ing periods extending beyond 12 weeks equate to an additiona cost of £3.55 per cow per day."

Mr Marsh says cow manage ment prior to bulling is critical "Poor condition at bulling where body condition score falls to less than 2.5 is one of the most com mon reasons for poor fertility.'

Mr Marsh advocates calving at two years old where it can be achieved because it can result in significant financial gain.

He says: "Aim for heifers to calve two to four weeks before the main herd so they can adjus before other cows calve.



### Calving interval facts and targets

- Number of calves born per 100 cows/bull is 88 per year
- Number of calves weaned per 100 cows/bull is 85 per
- Calving period from first to last calf is 18.9 weeks Calving interval is 440 days
- Recognised targets are:
- A nine-week calving period
- 95 per cent of calves weaned
- Source: Eblex stocktake 2014 report for suckler herds: results from top third of producers

A calving interval of 365



Cost reductions and therefore boosted margins are two of the benefits of working on tightening calving intervals in beef herds.

### mature cow weights or 400-and 600-day growth farmers not to consider bulls with very high would urge

"This will mean heifers are actually younger than two years old when they calve, but they are likely to have been bred from the most fertile cows in the herd which calved in the first few weeks of the calving period."

Mr Marsh points to bulls which have been over-fed prior to sales then come back to the farm to a grass-based diet as another potential problem.

He says: "We see bulls which are over-fleshed in the sale ring occause they have been fed a nigh proportion of concentrate

and this has been shown to reduce fertility and longevity.

"Once the same bull is working in a commercial herd, it is usually fed a very basic diet prior to being turned out with the cows and this can reduce their performance."

Mr Marsh says improved genetics may offer part of the solution and estimated breed values can be used to select for improved maternal traits when choosing bulls.

choosing bulls.

He says: "The aim should be more fertile female replacements and to achieve this, farmers should be looking for traits such as 200-day milk, age at first calving, maternal calving ease, calving interval and longevity.

SIMON MARSH

## Considerations

"I would urge farmers not to consider bulls with very high mature cow weights or 400- and 600-day growth, since this will subsequently increase cow size.

"The objective must be to breed small- to medium-sized cows which are milky and prolific and can produce calves weighing 50 per cent of the cow weight at 200 days."

Case study: Heathcote Grange Farm

NEIL Flower of Heathcote Grange Farm, near Buxton, Derbyshire, became aware the calving period in his spring-calv-ng herd was steadily increasing Vear-on-year.

He observed cows were becoming too fat and suspected low fertility in one of his bulls.

He says: "We were finding we were still calving the tail-end of the herd in August, which meant it was October before cattle were ready to go for slaughter. This delay was having an impact on our cash flow." of salt, so now salt licks are continuously available to cows.

Removing the bull after 12 weeks has paid dividends and Mr Flower is now routinely having a 'bull MOT' on his two stock bulls

with the cows.
"Having bulls tested proved relatively inexpensive compared to the risk should they have been 10 weeks before putting them in

Volunteer
Around the same time, Eblex was looking for focus farms for ts Better Returns Programme and Mr Flower was happy to volimpressive and this spring more than 80 per cent of the early spring-calving herd calved within three weeks of the first calf arriving. For the later herd, due to calf from the beginning of May, the figure was even higher. results have proved

# Herd data was analysed and evealed a long, drawn-out calvng period of 18 weeks. He says: "Aberdeen-Angus itilise grass very well and rarely ose any flesh over winter. When we condition scored our cows, we found a proportion had a pody condition score of five and nany of the remaining were scoring four." Farm facts

lartington in the Peak
District National Park, with
and rising to more than 320
metres (1,050ft)

hey were less likely to become over-fat.

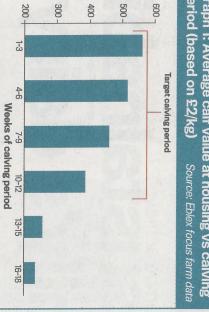
Mr Flower says: "We had to eed some concentrate to heifers

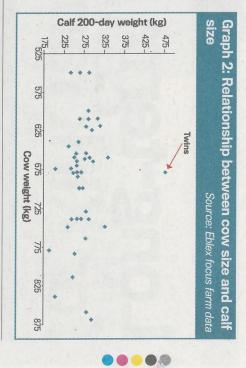
The decision was made to alve heifers at two years old ather than two-and-a-half so hey were less likely to become

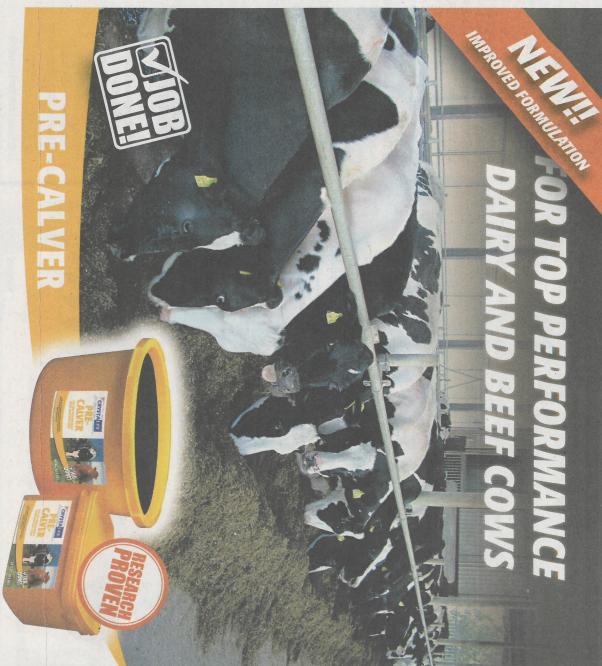
eed some concentrate to heifers to we could achieve the target bulling weight of 65 per cent of their expected mature weight. "We fed 2kg of a 16 per cent bended protein over winter and ided a 14 per cent protein in pring. All six of these heifers utained the desired weight of 400kg at 15 months old when hey were served." The farm runs 70 pedigree Aberdeen-Angus and cross-bred suckler cows and all future calves will be pedigree Aberdeen-Angus and all future calves will be pedigree Aberdeen-Angus Most animals are sold deadweight to Dovecote Park Waitrose's Aberdeen-Angus scheme; specification is R3 with significant penalties for animals which are too fat or too lean Figures from Eblex measuring calf weights at Heathcote Grange Farm showed calves born in the first 12 weeks were worth on average £275 per head more at housing (assuming a calf value of £2/kg) than those born between weeks 13 and 18 (see graph 1)

Graph 1: Average calf value at housing vs calving period (based on £2/kg)

Source: Eblex focus farm data 600







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