BETTERRETURNS



Better Returns from calf rearing





Sourcing the right calves

- Buy calves that are:
- Known to have received adequate colostrum at birth
- Of known disease status
- Seven days old or more
- Well-grown for their age (50kg at 2 weeks old)
- Healthy with a dry navel
- Alert and bright-eyed





Checks on arrival

Transport can be very stressful increasing disease risk.

- Offer 2 litres of warm electrolytes on arrival
- Offer milk the next day
- If other cattle are on the farm, quarantine incoming calves for 7 days
- If BVD status is unknown test for BVD antigen to identify any persistently infected (PI) animals



Colostrum Intake

- Newborn calves are born without antibodies to prevent disease
- Colostrum is the sole source of these antibodies

Quantity

- First feed of 3 litres within 2 hours of birth
- Second feed of 3 litres within 6-12 hours of birth
- Colostrum should be fed at 38°C



Colostrum Intake

Quality

- High quality colostrum contains at least 50g/litre of the antibody IgG
- Use a colostrometer or refractrometer to measure IgG

Quickly

 Absorption of colostrum declines rapidly from more than 40% at birth, to less than 5% by 20 hours after birth

Blood testing can indicate if adequate colostrum has been received.

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Milk Feeding

- Milk replacers must deliver target growth rates of 0.8kg/day. Aim for at least 80kg weight at weaning
- Feeding rates have been historically too low feed minimum 750g/day
- Adapt feed concentration depending on environmental conditions
- Offer consistent product at every feed
- Very high level of hygiene required



It is a legal requirement to feed calves under 28 days of age at least two liquid feeds a day.



Weaning Management

- Most producers wean at 8 weeks old but calf must be ready
- Starter feeds should be available from when calf arrives in rearing unit
- Wean when consuming 1.5kg/head/day of starter feed
- Two approaches:
 - Abrupt milk feeding stops suddenly
 - Gradual slow reduction of milk over 7 to 14 days
- Research suggests gradual weaning shows better growth/cost effective



Environment and housing

Five crucial factors affect the environment around a calf





Ventilation and temperature

Ventilation

- A constant supply of fresh air is essential
- Good ventilation removes stale, humid air
- Draughts at calf level must be avoided

Temperature

- Monitor temperature in calf housing daily
- Newborn calves should be kept in temperatures no less than 10-15°c
- One month old calves should be kept in temperatures no less than 6-10°c
- Roof lights should be north-facing to avoid overheating

Humidity and bedding

AHDB

Humidity

- High humidity allows pathogens to persist
- Good ventilation and floor drainage is essential
- Prepare milk feeds and clean equipment away from calf housing

Bedding

- Always provide sufficient clean, dry, straw for bedding
- Important for thermal comfort
- Calves' legs should not be visible when lying down





Promoting calf health

Health has critical impact on successful calf-rearing.

Common diseases include:

- Pneumonia
- Mycoplasma
- Joint-ill and navel-ill
- Calf scour (accounts for 50% of all calf deaths)
- Coccidiosis
- Cryptosporidiosis



Pneumonia

- Pneumonia can cause irreversible lung damage. If the calf does not die, lifetime performance will suffer
- Causes are viral and secondary bacterial infections
- Look out for coughing, nasal discharge, laboured breathing
- Treat immediately and minimise spread to other calves
- Prevention better than cure devise vaccination programme
- Ensure housing is well ventilated

Identify problems early





Information supplied by Volac.



Minimising stress

Key stress points:

- Disbudding ideally disbud in first two months of life
- Castration rubber ring or Burdizzo method. If calf older than two months a vet must castrate
- Weaning
- Change diet gradually over 2 to 3 weeks when moving to growing/finishing unit



Monitoring performance

Daily Liveweight Gain (DLWG) is the most important indicator of performance.



Set benchmarks for DLWG and health issues, eg. pneumonia or scour cases, so changes can be made to improve the situation.



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