



New formulation for PC Optimum Transition 1250.

Cow Management at transition is critical. It is closely linked to not only lactation performance but also to clinical and sub-clinical postpartum diseases and reproductive performance.

Vitally important in Close-Up diets is protein supply. Proteins are built from Amino Acids(AA's) and have numerous and varied roles in the transition cow as Metabolizable Protein(MP). At transition if rations contain insufficient levels of AA's, and protein, cows mobilize their limited protein reserves. These reserves are located in peripheral tissues and muscle.

At transition the synthesis of proteins and efficiency of protein synthesis both increase, yet the diet requires a higher concentration of AA's due to the reduced DMI. Research has shown that during the last 7 days of pregnancy, cows mobilize 1000gms of tissue every day and at the end of gestation, the uterus itself is extracting 72% of the AA's in circulation.

Postpartum the high yielding cows will mobilize up to 1000gmns per day of tissue protein to satisfy the mammary glands demand for AA's and glucose.

It is proven that to satisfy these demands the Close-Up dry cow requires 1300gms /day of MP, 104gms per kilo of DMI, with Lysine and Methionine being the first limiting amino acids. To ensure best performance Lysine and Methionine should be balanced at a ratio of 2.8 to 1 in the Close-Up diet. Amino Acid balancing (Lysine & Methionine) from pre-fresh to confirmed pregnancy will not only improve milk production and composition, it may also improve embryo quality and reduce early embryo losses (Cardoso et.al 2018).

To encompass the latest research and improve performance the following improvements have been made to PC Transition1250.

- Improved protein formulation giving higher MP content.
- Added Lysine giving Lysine /Methionine ration 2.8 to 1 in the finished ration.
- Meeting Dry Cow recommendations for grams of Lysine to Methionine.

Perfekt Cow Nutrition Ltd

M. 07454 015610 | E. info@perfektcow.co.uk | W. www.perfektcow.co.uk
Company Registration Number: 10552077