

Ranvet Broodmare rations

It must be considered that requirements may vary according to breed, body weight and stage of maturity and dietary intake will need to be amended for this accordingly.

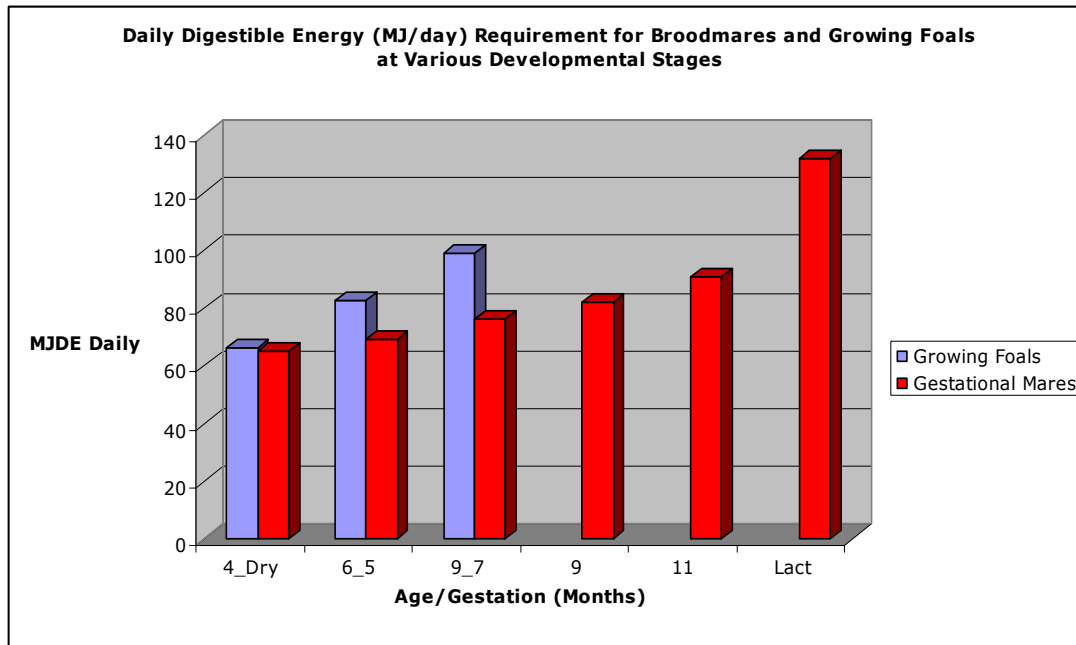


Figure 1: Daily Energy Requirements for Broodmares and Growing Foals at Various Developmental Stages (NRC 2007).

Suggested Diet (Daily) Per Horse **Broodmare rations (500kg)**

Feed Type	Early Gestation (< 5 months)	Late Gestation (11 months)	Early Lactation (0-3 months)	Late Lactation (3 months-weaning)
Oaten chaff	1.0kg	2.0kg	2.0kg	2.0kg
Oats	1.7kg	2.5kg	6.0kg	3.0kg
*Ranvet 500 PLUS®	300g	600g	600g	600g
*Aminovite PLUS®	30g	60g	60g	60g
Lucerne hay	2kg	Ad lib	Ad lib	4kg
Meadow/grass hay	3kg	-	-	3kg
Total Consumption	8.03	10.13	13.63	12.63

[^]Ad lib Lucerne hay consumption of 5kg/day has been calculated according to minimum daily roughage requirements of 1% bodyweight.

Energetic Requirements of Broodmares

It must be considered that for the pregnant broodmare, energy will be used for not only maintenance of bodily functions, but will also be used for the developing foetus and associated mammary and placental tissues.

RANVET PTY LTD

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The energy requirement of the broodmare in early gestation is similar to that of a resting horse, as approximately 80% of foal growth occurs in the last four months of pregnancy. From the fifth month of gestation, the broodmare's energetic, protein, vitamin and mineral requirements will increase significantly and during early lactation the broodmare's energetic requirements will increase further due to the onset of milk production for the suckling foal (Figure 2).

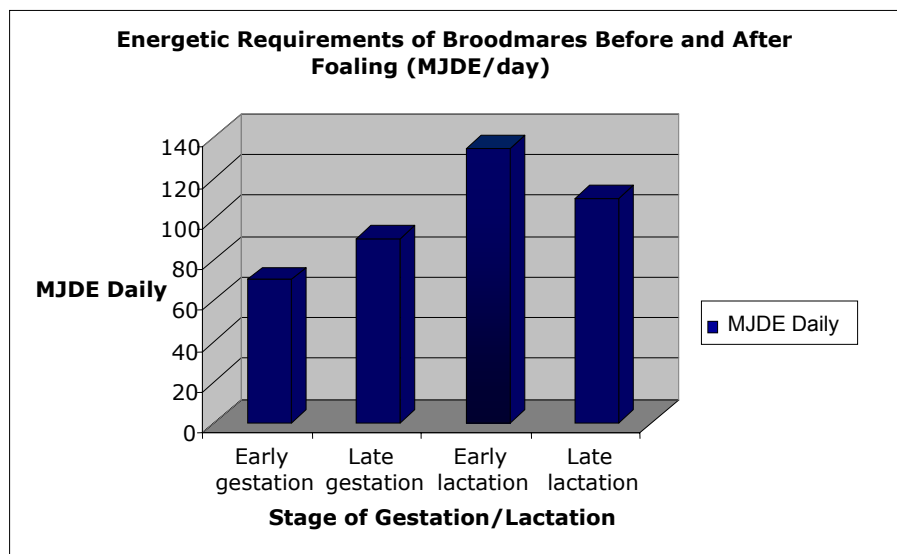


Figure 2: Energy Requirements of Broodmares Before and After Foaling.

Protein Requirements for Reproduction & Lactation

During the last three months of gestation, crude protein requirements of the broodmare increase and will significantly increase comparatively during the first three months of lactation due to both milk protein content and milk volume peaking during this period. As a result the intake of daily protein required is elevated during this period.

Not only is the provision of crude protein important, it is also crucial to ensure that the lactating broodmare's diet contains optimal levels of the essential amino acids (building blocks of high quality protein) lysine and methionine, as these are required in high amount by the growing foal. Studies have shown that mares fed high quality protein containing lysine and methionine prior to and following foaling produced milk with higher protein content during the first month of foaling compared to mares that were not supplemented with essential amino acids. Furthermore, foals from supplemented mares showed significantly higher growth rates during the first seven weeks of life compared to foals from non-supplemented mares.

Mineral Requirements for Sound Development & Growth (Copper & Zinc)

The supplementation of optimal amounts of the minerals copper and zinc during the last trimester of gestation has been advocated by many researchers. Studies investigating supplementation of copper and zinc during this period describe reductions in the incidence of osteochondritis dissecans (OCD), physitis, angular/flexural and cartilage defects of the limb. Furthermore, milk produced from lactating mares contains low levels of these nutrients and research has shown that supplementing the lactating mare's diet does not increase the trace mineral content of the milk. Therefore, trace mineral supplementation of the late pregnant mare (i.e; during the last three months of gestation) is vitally important, as the foetus stores nutrients such as copper in the liver for use during the first few months after birth. Ideally a zinc:copper ratio of 2.5-4:1 should be formulated in the provided ration.

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Mineral Requirements for Sound Development & Growth (Calcium & Phosphorus)

Adequate amounts of calcium and phosphorus must be available for bone formation to occur. IN the absence of adequate quantities of calcium or phosphorus, endochondral cartilage becomes thickened, bone density and growth decrease and skeletal disease may occur. The ration must not only contain adequate amounts of calcium and phosphorus, the broodmare must be able to absorb and utilise these nutrients as a sufficient excess of either mineral will decrease the absorption of the other.



- ✓ **Aminovite Plus®** is a premium grade multi-vitamin and mineral feed supplement which uses chelated (organic) trace minerals for optimum bioavailability and absorption. The addition of Aminovite Plus to the ration will ensure optimal provision of fat soluble vitamins and minerals while simultaneously ensuring optimal B-Group vitamin provision. Water soluble B-Group vitamins play an important role in the utilisation of carbohydrates, release of energy and are needed for numerous essential body functions. Unlike other fat-soluble vitamins, water soluble B-Group vitamins are not stored in the body and require daily provision and replenishment.

- ✓ **Ranvet 500 PLUS®** is an exclusive complete protein, amino acid, mineral and vitamin supplement combined into a single pellet, whereby you add your own grain and chaff to control the nutritional provisions and body condition of mares. The supplementation of **150-600g Ranvet 500 PLUS per day** will provide the balancing nutrients for sound foetal growth and excellent conditioning.

Ranvet 500 PLUS is also ideal to raise the nutritional value of mare's milk and extends the length of lactation by balancing the total mineral and protein intake.



- ✓ **Folactin Red Plus®** is a premium grade fortified mineral supplement formulated specifically for horses at stud (mares, stallions, weanlings, yearlings). Daily supplementation ensures optimal provision of the essential minerals, vitamins and trace elements such as **calcium, phosphorus, copper, zinc and magnesium** to ensure the development of sound, strong bones in young horses. Additionally, supplementation also addresses the nutritional requirements of pregnant and lactating mares and their foals, weanlings and yearlings.

Folactin Red Plus has been formulated in response to recent increased recommendations for calcium, phosphorus, copper and zinc in broodmares and foals at stud and is also appropriate for use in adult horses where calcium, phosphorus, copper and zinc deficiencies or imbalances exist.

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