

Ranvet Growing 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.

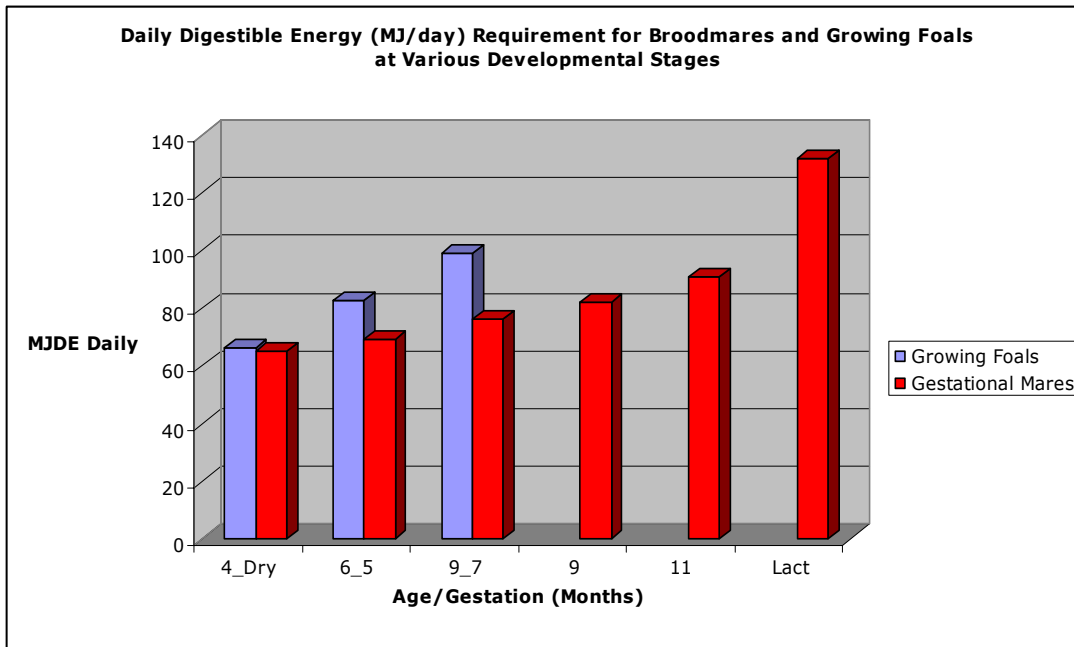


Figure 1: Daily Energy Requirements for Broodmares and Growing Foals at Various Developmental Stages (NRC 2007).

Suggested Diet (Daily) Per Horse **Growing rations**

Feed Type	Weanling	Weanling	Yearling
	6 months (250kg)	9 months (310kg)	12 months (350kg)
Lucerne chaff	1.5	1.5	1.0
Oats	2.75	3.8	4.0
*Ranvet 500 PLUS®	0.5	0.6	0.7
*Racing Oil®	150ml	150ml	150ml
*Aminovite PLUS®	0.03	0.03	0.03
Lucerne hay	^Ad lib	#Ad lib	*Ad lib
Total Consumption	7.95	9.55	9.75

^Ad lib Lucerne hay consumption of 3kg/day has been calculated according to minimum daily roughage requirements of 1% bodyweight.

#Ad lib Lucerne hay consumption of 3.5kg/day has been calculated according to minimum daily roughage requirements of 1% bodyweight.

**Ad lib Lucerne hay consumption of 4kg/day has been calculated according to minimum daily roughage requirements of 1% bodyweight.*

RANVET PTY LTD

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Energetic Requirements of Foals

Growing foals have varying energy requirements according to their developmental stage. However, excessive energy provision has been attributed to significantly increasing the risk of skeletal disease. Conversely, the provision of insufficient energy will result in reduced growth rate which is also unfavorable.

The daily energy requirement of a growing foal is influenced by various factors such as;

- a) Rate of growth (which will be different between breeds);
- b) Genetics (which may be different within breeds); and
- c) Environment.

Grain Feeding

The provision of starch (common in energy sources such as cereal grains) should be carefully monitored in the growing horse. Although required to support growth rates and ensure adequate energy provision, there is a cascade of unfavorable events which occur following a high starch-based meal. This cascade involves the release of hormones; Insulin, Insulin Growth Factor 1 (IGF1), Growth Hormone (GH) and Thyroxine, with current research demonstrating the chronic release of these hormones in young horses being provided with high starch-based rations. This chronic hormone release may adversely affect the maturation of cartilage and bone development in growing horses thereby resulting in an increased incidence of Developmental Orthopaedic Disease (DOD).

Mineral Requirements for Sound Development & Growth (Calcium, Phosphorus, Copper & Zinc)

There are many essential nutrients in the growing foal ration and studies have shown that there is a strong correlation between the occurrence of skeletal disease in foals and weanlings and reduced amounts of **calcium, phosphorus, copper and zinc**. Research has shown that the incidence of skeletal disease decreases significantly when these minerals (particularly copper) were increased to optimal levels in the diet. In further support of this research, studies have shown that following optimal copper and zinc supplementation to the mare in the last trimester, reductions in the incidence of osteochondritis dissecans (OCD), phytitis, angular/flexural and cartilage defects of the limb in the foal have been reported.

Adequate amounts of calcium and phosphorus must also 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 foal/weanling must be able to absorb and utilise these nutrients effectively, as a sufficient excess of either mineral will decrease the absorption of the other. An optimal ratio of calcium:phosphorus (Ca:P) in the growing horse's diet is between 1.8-3:1 outside of which alterations in endochondral ossification, resulting in skeletal disease may occur.

The supplementation of **Ranvet 500 PLUS®** provides a balanced spectrum of amino acids to deliver full value from the protein in pasture grasses and legumes while simultaneously balancing the minerals in feed to lay down dense bone. Additionally, **Ranvet 500 PLUS** has recently been re-formulated in line with recent research which suggests that increasing certain mineral levels (**particularly calcium, phosphorus, copper and zinc**) may reduce the risk of Developmental Orthopaedic Disease (DOD) in growing foals.

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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 growing horses and broodmares. The supplementation of **100-600g Ranvet 500 PLUS per day** will provide the balancing nutrients for sound growth and excellent conditioning, resulting in optimal size and development at all stages of the young horse's growth to produce a more fully developed and stronger yearling.



Ranvet 500 PLUS is also ideal to raise the nutritional value of mares 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.

- ✓ The supplementation of oil to the ration has been shown to spare muscle glycogen and thereby delay the onset of fatigue. **Racing Oil®** contains an appropriate Omega 3: Omega 6 fatty acid ratio while providing increased protection of cell membranes, increasing the immune response and providing a 'cool' and concentrated energy source. The addition of oil to the ration increases the energy density in the absence of increased feed volume.



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