

## Investing in Their Future

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You have made your choice of stallion for your mare. You've paid all the vet bills associated with breeding your mare. Now, all you have to do wait for your new foal to arrive!

Nutrition plays an extremely important role in how your mare and foal develop and can weigh heavily towards ensuring that the foal develops to its full potential and your mare is equipped to continue producing foals long into the future.

### Preparing for your newborn

Preparing nutritionally, for your newborn foal starts months before conception. Ensuring your mare is of an appropriate condition score (CS 3-4 out of 5) increases chances of conception. Ensuring your diets are balanced, for either a dry mare or a lactating mare whom will be returned to foal. The requirements for these two mares are drastically different as the lactating mare is caring for two as well as trying to return for another conception.

In this brief article, we will discuss nutritional requirements for both scenarios of feeding a dry mare through pregnancy and a lactating mare as it is often confused and lactating mares are fed on the same diet as a dry mare.

### Understanding pregnancy

For the dry mare, the pregnancy can be broken into the 1st and 2nd Trimester, 3rd Trimester and Lactation. For the Wet mare, we will discuss feeding during lactation, late lactation and weaning, 3rd trimester and returning to lactation.

When feeding the "Dry Mare" after conception, we can treat them like another horse of equal weight at maintenance. We should be looking to maintain condition and match supplementary feeding to pasture and forages available. If pasture is abundant and of sufficient quality, a low feed rate supplement will address the vitamin and mineral requirements of the mare.

If pasture is of poor quality, a supplementary feed designed to be fed at a rate of 2-5kg per day may ensure the mare is receiving the correct nutrients as it will require additional energy and protein.

The third trimester of pregnancy is where the foal will double its weight, as a result of the nutrient requirements of the mare increase substantially. This is a critical time for the mare and foal to develop and ensure no nutritional or developmental problems

occur due to its nutritional intake. Over the last three months of pregnancy, the mares' energy requirement will increase by 10-20%. Protein requirements will increase by 20-30%. Calcium requirements increase between 70-80% and phosphorous requirements increase 80-90%.

### **The ratios of nutrients**

As you can see the ratios of nutrients vary as the mare's pregnancy progresses compared to a maintenance ration. As a result by simply feeding more to your mare may meet her energy requirements. However, it may not meet her increased protein, calcium, phosphorous and other essential nutrients requirements.

If you do not meet your mares and foals increased requirement it can lead to reduced development of the foal and increase its risk of suffering from growth and nutritional disorders such as Developmental Orthopaedic Disorder (DOD). It can also lead to problems with lactation and the mares' ability to conceive for the next pregnancy.

### **Nurturing during the crucial early days**

Once you finally have your new 'super star' hit the ground your mares' requirement go into overdrive. Your newborn foal will be growing at 1-2kg per day. The mare will be producing up to 20 litres per day of milk to ensure the foal is receiving nutrients. As a result, your mares' energy requirement will be nearly double (175%), protein will be (220%), Calcium and Phosphorous increase to (270-280%).

It is nearly impossible for your mare to consume this much nutrient so she will have to draw on body reserves to ensure she maintains milk production from the foal. This is why it is essential to make sure you keep your mare in a good to moderately fleshy (CS3.5-4) condition score during the last trimester of pregnancy.

During this time you may wish to rejoin your mare. If she is in good condition and has a well-balanced diet the chances of a successful conception on first return will be significantly increased. Studies have shown incorporating certain nutrients such as selenium have improved conception rates in mares and fertility counts and sperm conformation in stallions.

For mares in late lactation which are generally termed from 3 months after foaling until weaning the mare will still have increased nutrient requirements compared with your 'dry mares'. The mares' energy requirements will be 150% of dry mares requirements. Protein will be approximately 160% so as will Calcium and Phosphorous.

As you can see the nutrient requirements for Lactating and Dry mares are quite different. As a management tool separating your wet and dry mares will enable you to ensure that each mare and foal are fed to their requirements and not an average of both.

Correct nutrition of your pregnant mares and foals is an investment into the future of your up and coming equine athletes. Consulting your equine nutritionist to develop a feeding program for your whole stud is extremely important to ensure all your horses' nutritional requirements are met. They will take into consideration what type and categories of horses you have, what quality and quantity of pasture and roughage are available at various times of the year and what supplementation may be required to ensure all your horses nutrient requirements are met in the most economical and practical way.

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