

## Role of Good Quality Fodder in Animal Production

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### INTRODUCTION

Agriculture is growing of crops and rearing of farm animals (Khan et al., 2021). It is the most important sector and provides fiber, fuel and food to the humans. (Adnan, 2020, & Rehman et al., 2020). In this sector, animals are major part because their byproducts are an important source of good quality, balanced, bioavailable protein and many important micronutrients such as zinc, iron, and vitamins (A and B-12). Therefore, adequate consumption of animal byproducts plays a significant role in accomplishing a nutritionally stable diet, particularly in the developing countries. Moreover, they are familiar for high-quality foods and global demand for animal byproducts are almost convinced to continue to increase intensely. The increased divers demand for animal byproducts include growth of population and affluence increment, particularly in developing countries where chances of growing population will occur. In addition to this, animals are particularly to ecological systems of agriculture and mainly for small land holders who contain most of poor farmers. Animals on farms give not only high-quality food that not only improves nutritional value but also many additional sources i.e. fertilizer manure and many other by products. Moreover, it gives economic risk distribution and diversification. In addition to this increased in efficacies from last few decades by genetic improvement and management techniques has preserved many resources such as land, water and carbon footprint for quality production of farm animals. Furthermore, ruminants like sheep, goat, cattle and buffalo has convert many forages from the grass lands to excellent quality of by products, and animal grazing may promote the grasslands biodiversity and health if properly managed but this part is facing a lot of problems like diseases, poor quality forage and water. Among them poor quality fodder is the most important factor reducing quality production of animals and their by products.

Good quality fodder is defined as capacity of cow to eat and utilize all the nutrients present in fodder crops. More the digestible contents, higher will be the fodder quality. Young herbage is the highest quality and digestible fodder because of lowest structural carbohydrates such as lignin, cellulose and hemicellulose. When fodder crop matures its

digestion rates, crude protein contents will drop and cause reduction in nutrients and forage quality. This article directly focuses on importance of animal production and indirectly focuses on the improvement of forage quality to enhance quality byproducts of farm animals.



### **Fodder Quality and Diseases**

Due to improper condition of storage, many disease infestations to animal feed like maize and cotton seed cake has been observed in many countries. Moreover, sometimes, production of mycotoxins has also been observed by many scientists due to the presence of fungus and moisture in environment, which can cause many problems to human and animal health.

### **Balanced implementation of animal feed**

Inappropriate animal nutrition is responsible for low productivity of livestock and balanced supply of minerals are based on objectives,

psychological conditions and growing environment of animals.

All of the above mention circumstances will surely improve output and production of animals.

### **Reduce loss of feeds**

Ruminant production is dependent on crop residues feeding and their byproducts but all of these sources should be properly managed. In many countries straws are causing many environmental problems and reducing valuable resources of feed.

**High quality feeding**

*Moringa oleifera* leaves are rich in CP contents and approximately whole protein is available in true protein form. Moreover, composition of amino acids and digestibility of protein is similar in quality with soybean in addition to this these leaves are high in vitamin c, carotenoids, and many other antioxidants.

**Methods to rise fodder availability**

There are many ways to improve the fodder availability by land resources utilization, using high quality hybrids, enhance seed production, conservation and development of seeds banks for fodder.

**CONCLUSION**

Proper nutrition of animals plays a significant role in addressing the emerging and ongoing challenges which are imposed by human population increment, land degradation, global warming, pollution, and water shortage. These problems can be minimized by land resources utilization, using high quality hybrids, enhance

seed production, conservation and development of seeds banks for fodder.

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