

Limitation MOLM

- High fibre limit gross feed intake
- It is bitter, thus must be mixed with other ingredients



MORINGA OLEIFERA LEAF MEAL FOR LAYING CHICKEN

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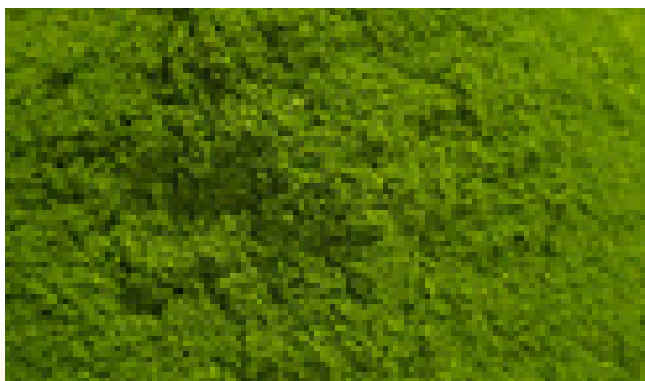
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Introduction

Moringa leaf meal (MOLM) is a product of *Moringa oleifera*, also known as *mlonge* in Kiswahili. It is grown in all agroecological zones in Kenya. MOLM is a rich source of proteins, vitamins, minerals and ox carotenoids that contribute to increased intake of essential nutrients and health-promoting phytochemicals. It can also be used in place of soybean meal to improve the quality of chicken eggs.



Moringa Oleifera Leaf Meal (MOLM)

Why use Moringa?

- It is locally available
- It is cheaper than soya bean meal
- It is easy to include in chicken feed
- Enhances meat and egg quality
- Improves market value of chicken products




Nutritional value of Moringa Leaf Meal (MOLM)

Energy (MJ/Kg)	17.14	
Moisture (%)	6-6.3	
Protein (%)	23-28	
Carbohydrates (%)	47-55	
Crude fibre (%)	8-10	
Ash (%)	5-9	
Fats (%)	1.5-2.5	
Ly-sine	1.10	
Me-thio-nine	1.11	



Benefits of using Moringa in Layer Chicken Feeds

- Improves the egg weight
- Increases yolk weight
- Increases albumin height
- Enhances yolk colour
- Improves shell thickness.

Levels of MOLM in feed	0%MOLM	20%MOLM	40%MOLM
Egg yolk colour			

How to feed

Moringa is dried, ground and mixed with other chicken ingredients to form compounded feed like layers mash. Add 20-40% MOLM in layers mash.

Sources of MOLM

- Own-plantation
- Markets
- Wild harvesting

How to include MOLM in chicken feeds

Ingredients	Layers Mash 1	Layers Mash 2
Whole maize	51	40
Soya bean meal	10	5
Molm	20	40
Fishmeal	10	10
Dcp	0.5	0.5
Limestone	7.5	3
Iodized salt	0.3	0.3
Premix	0.25	0.25
Vegetable oil	0.5	1
Enzyme	0.035	0.035