

# Marksway **HORSEHAGE**®



BY APPOINTMENT TO  
HER MAJESTY THE QUEEN  
MARK WESTWAY AND SON  
MANUFACTURERS OF HORSE FORAGE



# **MOLLICHAFF**®



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## THE ORIGINAL DUST-FREE FORAGE MANUFACTURER

During the seventies the late Mark Westaway became increasingly concerned about his event horses persistently coughing.

His veterinary surgeon expressed the view that the coughing was dust related and that since hay was the major dust source, the problem would continue unless someone could come up with a dust free forage designed specifically for the horse.

So from a chance but significant remark the idea for HorseHage was born.

The original Ryegrass HorseHage has been joined by High Fibre HorseHage, Timothy HorseHage and the specialist product, Alfalfa HorseHage.

HorseHage is also well-known for the Mollichaff range of high fibre chaffs and complete feeds.

A Royal Warrant was awarded in 1983 after the Queen's horse, Burmese, was fed HorseHage when suffering a respiratory problem. She was one of tens of thousands of ponies and horses, from Shetlands to Thoroughbreds, that have benefitted from HorseHage's dust-free properties.

HorseHage is the Official Supplier of Dust-Free Forage to The British Equestrian Team. HorseHage has been supplied to the British Equestrian Teams at every Olympic Games since Los Angeles in 1984. We also supply forage for the Horse of the Year Show.

Mark Westaway gives two main reasons for the success of HorseHage. "Firstly it is a natural product with no additives and is the nearest thing you can get to grass in the field. Secondly, it helps to maintain healthy respiratory and digestive systems. Over forty years of production has given us all the knowledge and experience we need to make a top quality product, and our sales prove this."

**British**  
**Equestrian**  
Team Supplier





# WHY CHOOSE HORSEHAGE



## 100% Guarantee

We offer a 100% quality guarantee on every one of our bales, as well as a team of nutritionists and a wealth of research and experience – in fact everything you would expect from a quality feed manufacturer.



## Ideal for horses & ponies prone to laminitis

HorseHage is low in sugar and starch and high in fibre. It is produced in four different varieties. The High Fibre and Timothy varieties both carry the HoofKind logo to denote that they are safe to feed to horses and ponies prone to laminitis. HorseHage goes through a fermentation process that reduces the levels of naturally-occurring sugars in the grass to give a low sugar forage.



## Certified

HorseHage is a consistent, reliable, dust-free, semi-wilted bagged forage and has BETA NOPS certification.

**Often copied, but never equalled.**



## 100% Natural

HorseHage contains no chemical additives, mould inhibitors, inoculants, flavourings, additives or molasses. It is a totally natural product.



## Four Varieties

HorseHage comes in four different varieties - Ryegrass, High Fibre, Timothy and Alfalfa - offering different energy values and providing a forage choice to suit all types of horses and ponies.



## Traceability

Ensuring the safety, consistent quality and traceability of product.



## Dust free

HorseHage is dust-free which is an important factor in the prevention and management of respiratory conditions such as RAO (Recurrent Airway Obstruction). A healthy respiratory system is vital for optimum performance from any horse or pony.



## Double skinned bag

HorseHage is packed and heat-sealed into double skinned bags to help reduce the risk of puncturing. The bags are semi-permeable, allowing the gas produced during the unique fermentation process to escape without letting any air in.

# HOW TO FEED HORSEHAGE

## How to Introduce HorseHage into the Diet

We suggest changing to HorseHage over a period of at least 5-to-7 days by increasing the amount of HorseHage provided each day and reducing the amount of hay.

You should feed your horse, as an absolute minimum, the same quantity of HorseHage by weight as you would feed hay. Due to the differences in dry matter between hay and HorseHage, it's important to ensure adequate levels of fibre are being provided.

HorseHage should form part of a balanced diet. Choose a broad spectrum vitamin and mineral supplement, complete feed or balancer suitable for your horse or pony to accompany your HorseHage.

For horses and ponies prone to laminitis, we recommend High Fibre HorseHage or Timothy HorseHage as this can be safely fed at controlled levels, where total calorie requirements allow, to maintain fibre levels and keep the gut moving. This is especially important when grazing may need to be restricted such as during the Spring and Autumn.

If calories are of a concern, HorseHage can be mixed with a lower calorie forage such as oat straw. The straw will need to be clean, of good quality and introduced slowly, ensuring that fresh water is always available.

## How Long does HorseHage Last Opened?

Once opened, a bag of HorseHage should be used within 5-7 days, however, unopened bags can be kept for up to 18 months.

Although, any bags with holes in should only be used within 5-7 days of the hole being made.

## How to store HorseHage

Unopened bales can be stored outside. Steps should be taken to ensure that packaging is not at risk of being punctured as this will cause the product to spoil.

Once you have opened your bale of HorseHage, remove all the packaging and keep in a cool dry area away from direct sunlight. Do not attempt to rewrap or reseal the bale as this may cause it to spoil quickly.

## Looking For More Specialist Advice?

We have a dedicated team of expert advisors, available online or on the phone, to answer any unique query you might have. Get in touch with us today for support.





### HorseHage Ryegrass

A high quality option for those requiring a little more from their forage

- Made from a selection of Ryegrasses cut at an earlier stage of growth to provide optimum protein and energy levels.
- Great for hunters, heavy horses, young stock, breeding stock and horse in higher levels of work.
- Can be fed to improve condition and encourage weight gain.
- Pleasant aroma and high palatability make this product very appealing.

### HorseHage High Fibre

Provides a low sugar and starch forage for good doers and those prone to laminitis

- High in fibre and lower in protein and energy levels.
- Excellent source of fibre for competition horses.
- HorseHage goes through a fermentation process that reduces the levels of naturally-occurring sugars in the grass to give a low sugar forage.
- Promotes a more natural diet and healthy digestive system.



### HorseHage Timothy

An enticing aroma and taste make this low sugar option very appealing

- Suitable for good doers and those prone to laminitis.
- Supports a healthy digestive and respiratory system.
- Naturally high in fibre.
- Ideal for fussy feeders.

### HorseHage Alfalfa

A high nutrient forage suitable for horses with high energy requirements

- Suitable for horses in hard work and those needing to gain weight and condition.
- Being a legume it has higher levels of protein, digestible fibre, energy, calcium and vitamins than grass.
- Available to order though your HorseHage stockist.
- Due to the unique characteristics of this product we recommend seeking advice from our helpline team before purchasing.





# THE BENEFITS OF FEEDING CHAFFS

## Digestive Benefits

Chaffs are considered as a high fibre feed which is incredibly important for a horse's digestive system and immune function. As horses are predominantly fibre digesters or hindgut fermenters, fibre is not just a 'filler', it is vital for their energy levels.

Millions of microbes (collectively called the microbiota, and all the genetic material within the gut is known as the microbiome) break down the digestible fibre content from chaffs which, in turn, release energy that the horse then uses. If the balance of microbes in the gut is upset due to a lack of fibre, this may lead to serious health problems including colic, laminitis, and suppression of the horse's immune status.

## Mental Wellbeing Benefits

In addition to bulking out the bucket feed, chaffs have psychological benefits for horses. As chaff prolongs a horse's feeding time; since they need to chew chaffs for longer than other concentrate feeds, it aids in fulfilling your horse's psychological need to chew.

## Gut Health Benefits

With the addition of chaffs in their concentrate feed, horses will produce a higher level of saliva. A high fibre feed like chaff helps to increase the production of acid-buffering saliva.

Feeding a scoop of chaff before exercise may also help to reduce the splash effect of the horse's stomach acid by providing a fibrous "mat" in the stomach.

## What About Molasses?

Many horse owners have concerns about molasses and other sugar-based syrups that are often added to chaff – and although there are certain types of horses and ponies with insulin dysregulation who do need careful management of their sugar intake, such as

those diagnosed with PPID (Cushings) or EMS (Equine Metabolic Syndrome), many horses and ponies can safely be fed controlled quantities of molassed chaff in a well-balanced diet.

Molasses is a by-product of the sugar extraction process from sugar cane or beet and is added to chaff mixes to reduce dust and increase palatability. Sugar is an essential energy source for horses; they have evolved to eat grass, so they are in fact well adapted to including sugar in their diet as long as it is trickle-fed – as chaffs are.

The natural nutrients contained in molasses are also beneficial to a horse's diet, such as potassium, iron, calcium, salt and B vitamins. As long as the horses' own natural ability to digest sugar in the small intestine is not overwhelmed, molassed chaffs can be safely fed to many horses and ponies as part of a balanced diet.

## Mollichaff

Our comprehensive Mollichaff range offers a choice of high quality chaffs to add bulk and fibre to your horse's diet, as well as a range of complete feeds and alfalfa products.

Our specialist chaff range has eight tasty options made from top quality oat and wheat straw. They are dust-extracted, chopped and lightly dressed with a variety of ingredients, individually tailoring the chaff to your horse's needs.

Our chaffs have an open texture, unlike some heavily molassed chaffs which can be sticky and lumpy. By stimulating the production of saliva and slowing down the passage of food throughout the gut, Mollichaff can help maintain a healthy digestive system. In particular it will satisfy a stabled horse's psychological need to chew, requiring up to 8000 chews per kilo to eat compared to as few as 1200 for concentrates.

# WHY CHOOSE MOLLICHAFF



### Certified

Assured by the Universal Feed Assurance Scheme. Ensuring the safety and traceability of the feed.



### Dust Extracted

Dust-extracted offering a choice of high quality chaffs.



### Eight Varieties

Mollichaff comes in eight different varieties – Original, Extra, Herbal, AppleChaff, ShowShine, Veteran, Alfalfa Oil, and Light Molasses Free providing a choice to suit all types of horses and ponies.



### Trusted Manufacturer

Supported by a team of nutritionists, a wealth of research and experience.



### Feed with Confidence

Mollichaff is produced in compliance with the BETA NOPS code and follows best practice to minimize the risk of contamination from NOPS.



### Fibre

Our specialist chaff range is made from top quality oat and wheat straw.



# MOLLICHAFF<sup>®</sup>



## MOLLICHAFF<sup>®</sup> ORIGINAL

**A high quality chaff to compliment your hard feed**

- Adds extra essential fibre into your horse's diet
- Our low sugar molasses makes it highly palatable
- Promotes strong bones and healthy growth

**Ingredients:** Straw, Molasses, Limestone

## MOLLICHAFF<sup>®</sup> EXTRA

**Benefits the condition of all horses and ponies especially breeding and young stock**

- Helps to keep your horse in optimum health
- Contributes to a balanced diet
- Specially formulated vitamin and mineral supplement compliments your hard feed

**Ingredients:** Straw, Molasses, Vitamin and Minerals, Limestone



## MOLLICHAFF<sup>®</sup> HERBAL

**A high fibre chaff with the added benefit of natural garlic and herbs for all round health and vitality**

- Mint and garlic are traditionally used to help maintain a healthy respiratory and digestive system
- The garlic acts as a natural fly repellent
- Blended with rosemary and golden rod - a natural way to stimulate your horse's appetite

**Ingredients:** Straw, Molasses, Garlic, Mint, Rosemary, Golden Rod, Limestone

## MOLLICHAFF<sup>®</sup> APPLECHAFF

**Delicious lightly dressed option to combine with your hard feed**

- Irresistible to the fussiest of feeders
- Contains real apple pieces
- Promotes a natural high fibre diet

**Ingredients:** Straw, Molasses, Apple Pieces, Apple Essence, Limestone



**Get in touch for a [free sample](#)**



# MOLLIChAFF®



## MOLLIChAFF SHOWSHINE

**A delectable chaff dressed with oil for supreme condition and shine**

- High in oil to add condition and a bloom to your horse's coat for ultimate show condition
- Cherry flavouring makes ShowShine taste and smell delicious
- Entices even the fussiest of feeders

**Ingredients:** Straw, Soya Oil, Molasses, Cherry Flavouring, Limestone

## MOLLIChAFF VETERAN

**A tasty, fortified chaff for older horses that need a little more from their feed**

- This high fibre forage blend is designed to complement the forage ration where necessary
- The soft, short chop is ideal for those that may struggle to chew their feed.
- High oil for condition, shine and slow release energy

**Ingredients:** Grass, Alfalfa, Straw, Linseed Oil, Soya Oil, Molasses, Vitamin and Minerals, Mint, Nettle, Salt, Limestone

**Get in touch for a [free sample](#)**



## MOLLIChAFF ALFALFA OIL

**A molasses free option for those with higher energy requirements or who struggle to maintain their condition**

- Being a highly palatable form of 'slow release energy' it offers a natural alternative to cereal based feeds
- Has a similar energy level to a medium energy hard feed
- Naturally low in sugar and starch it will not cause the fizziness associated with cereals
- With a generous dressing of pure soya oil this blend promotes a healthy coat
- Designed as a high fibre complement to your hard feed or balancer

**Ingredients:** Alfalfa, Soya Oil



## About Alfalfa

Alfalfa (lucerne) is a legume and is a rich source of highly digestible fibre. Mollichaff Alfalfa Oil is produced from UK-grown, pure alfalfa including the nutrient-rich leaf as well as the stalk of the plant and is dust-extracted.

Alfalfa is a great source of vitamins, minerals and antioxidants including vitamin E and selenium. The high palatability of Mollichaff Alfalfa Oil makes it a fantastic fibre source, even for fussy feeders!

Alfalfa is suitable to feed to horses and ponies prone to laminitis as it contains a sugar level that is considerably lower than grass.





# MOLLICHAFF LIGHT MOLASSES FREE

**NEW**

Great value

Packed with  
essential  
fibre



Low in sugar  
& starch

Simple  
to feed

**A highly palatable feed for those requiring a diet that is high in fibre, and low in sugar and starch**

- It is free from molasses, alfalfa, cereals and preservatives, with added fibre nuts to stimulate interest
- Contains soya oil which provides essential fatty acids to help promote healthy skin and coat shine
- High in essential fibre to support a healthy digestive system
- Suitable for horses and ponies in all levels of work, as well as those at rest, prone to laminitis, overweight horses and ponies, and those needing a calorie-controlled diet

**Ingredients:** Straw, Fibre Pellets, Soya Oil, Dried Grass, Limestone Flour, Salt, Flavouring

Get in touch for a **free sample**



## MOLLICHAFF DONKEY

**A highly palatable complete feed to support the optimum health of donkeys and mules**

- Low in sugar, starch and energy this appetising blend is not only suitable for donkeys and mules, it can also be fed to horses and ponies prone to laminitis.
- Encourages a balanced diet whilst promoting a healthy weight
- The high fibre characteristics of this product mean that it can be used to complement the forage ration in equines with compromised dentition
- Contains additional calcium for strong bones and healthy growth

**Ingredients:** Straw, Grass, Fibre Pellets, Molasses, Soya Oil, Camomile, Mint, Lemon Balm, Broad Spectrum Vitamin and Mineral Supplement

### Feeding Guide

Approximate Size	Approximate Weight (kg)	Quantity (kg) per day bucket fed	Quantity (kg) per day as Total Hay Replacer
Mini	100-150	1/4	2
Standard UK	150-200	1/2	3
Large Breed	200-300	1	4
Large Mules	300+	1-2	4-6

The average weight of a level Stubbs scoop (volume 2.6 litres, bowl diameter 23cm, depth 10cm) of Mollichaff Donkey is 0.50kg)





# MOLLICHAFF COMPLETE RANGE

In addition to our range of chaffs, we have developed three 'complete' high fibre feeds. Mollichaff Calmer Complete, Mollichaff Hoofkind Complete and Mollichaff Condition Complete are feeds which, when fed at the recommended levels, can be used as the sole bucket feed as they contain all the vitamins and minerals required. This means that there is no need for several different bags of feed and supplements which can save you money on your feed bills. The feed also promotes a more natural diet for your horse by feeding a fibre-based ration rather than cereals.

## Feeding Guide

Approximate Height (Hands)	Approximate Weight (kg)	Quantity (kg) of Mollichaff Complete per day
11 – 12.2	200	1
12.2 – 13.2	300	1.5
13.2 – 14.2	400	2
14.2 – 15.2	450	2.25
15.2 – 16.2	500	2.5
16.2 – 17.2	600	3

- Clean, fresh water should be available at all times.
- Feed dry or damp according to preference.
- As with all new feedstuffs introduce gradually and increase quantities as required.



The average weight of a level Stubbs scoop (volume 2.6 litres, bowl diameter 23cm, depth 10cm) of...

- Mollichaff Hoofkind Complete is 0.45kg
- Mollichaff Calmer Complete is 0.45kg
- Mollichaff Condition Complete is 0.50kg

The above table is intended as a guide only. Good quality forage should also be offered to complete the diet. Remember that every horse is an individual and should be treated accordingly.



# WHY CHOOSE MOLLICHAFF COMPLETE



**Trusted Manufacturer**  
Supported by a team of nutritionists, a wealth of research and experience.



**Traceability**  
Ensuring the safety and traceability of the feed.



**Complete Feed**  
When fed at the recommended levels our Mollichaff Complete Feeds can be used as the sole bucket feed as they contain all the vitamins and minerals required.

**Three Varieties**  
Calmer Complete, HoofKind Complete, Condition Complete



**Fibre Based**  
To promote a more natural diet by feeding a fibre based ration rather than cereals.



**Feed with Confidence**  
Mollichaff is produced in compliance with the BETA NOPS code and follow best practice to minimise the risk of contamination from NOPS.



# MOLLIChAFF. CALMER COMPLETE



**This unique complete feed has been formulated with high quality ingredients aimed at decreasing anxiety and exert a calming influence making it ideal for those that are excitable or nervous**

- Elevated levels of magnesium as well as vitamins B1, B12 and Vitamin E, provide nutritional support for a healthy nervous system, to help maintain concentration and a calm outlook
- Being low in sugar and starch it is also suitable for those prone to laminitis or those that maintain their weight easily
- Promotes a balanced diet for optimum health
- The high fibre nature of the ingredients promotes a natural diet and healthy digestive system
- Contains a carefully formulated combination of chamomile, lemon balm and mint

**Ingredients:** Straw, Grass, Fibre Pellets, Molasses, Soya Oil, Broad Spectrum Vitamin and Mineral Supplement, Chamomile, Lemon Balm, Mint, Limestone

Get in touch for a **free sample**

# MOLLIChAFF. HOOFKIND COMPLETE



**A complete high fibre cereal free feed containing a vitamin and mineral supplement specially formulated for good doers and those prone to laminitis**

- A low in sugar and starch blend
- Delicious high fibre ingredients provide restricted calories and limited controlled energy
- Natural plant-based antioxidants are included for the nutritional maintenance of a healthy immune system, respiratory system, circulatory system and the all-important hooves and laminae
- The inclusion of biotin supports the rate and quality of hoof growth

**Ingredients:** Straw, Alfalfa, Fibre Pellets, Molasses, Soya Oil, Broad Spectrum Vitamin and Mineral Supplement, Limestone, Flavouring





# MOLLIChAFF. CONDITION COMPLETE



The combination of high oil, low starch and high fibre quality ingredients encourages weight gain in those that struggle to maintain condition

- Digestive aids are included to support the efficacy and health of the gut
- The addition of mint makes the taste and the aroma particularly appealing
- Soya oil helps to improve skin condition and encourage a glossy coat
- Also suitable for those with higher energy requirements such as competition horses and ponies
- The inclusion of a broad spectrum vitamin and mineral supplements supports a balanced diet for optimum health

**Ingredients:** Straw, Alfalfa, Grass, Fibre Pellets, Molasses, Barley, Soya Flakes, Soya Oil, Mint, Yea-sacc®, Prebiotic, Broad Spectrum Vitamin and Mineral Supplement

Get in touch for a **free sample**

**FIND OUT MORE**



Get in touch for a **free sample**

Helpline: 01803 527274

Email: [sales@horsehage.co.uk](mailto:sales@horsehage.co.uk)

Visit our website to find your local stockist.





[www.horsehage.co.uk](http://www.horsehage.co.uk)



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# NUTRITIONAL REFERENCE

	Suitable for horses & ponies prone to laminitis	Dust free	High in fibre	Contains alfalfa	Low in sugar	Forage replacer	Encourages weight gain	Suitable for good doers	Added oil	No added molasses	Complete fibre-based feed
		✓	✓		✓	✓	✓			✓	
	✓	✓	✓		✓	✓		✓		✓	
	✓	✓	✓		✓	✓		✓		✓	
		✓	✓	✓	✓	✓	✓			✓	

	Suitable for horses & ponies prone to laminitis	Dust free	High in fibre	Contains alfalfa	Low in sugar	Forage replacer	Encourages weight gain	Suitable for good doers	Added oil	No added molasses	Complete fibre-based feed
		✓	✓	✓			✓				✓
	✓	✓	✓		✓			✓	✓		✓
	✓	✓	✓	✓	✓			✓	✓		✓
	✓	✓	✓		✓	Partial		✓	✓		✓



	Suitable for horses & ponies prone to laminitis	Dust free	High in fibre	Contains alfalfa	Low in sugar	Forage replacer	Encourages weight gain	Suitable for good doers	Added oil	No added molasses	Complete fibre-based feed
		✓	✓								
		✓	✓								
		✓	✓								
		✓	✓								

	Suitable for horses & ponies prone to laminitis	Dust free	High in fibre	Contains alfalfa	Low in sugar	Forage replacer	Encourages weight gain	Suitable for good doers	Added oil	No added molasses	Complete fibre-based feed
		✓	✓						✓		
		✓	✓	✓		Partial			✓		
	Please seek further advice when feeding to horses & ponies prone to laminitis	✓	✓	✓	✓	Partial	✓		✓	✓	
		✓	✓		✓	Partial		✓	✓	✓	



Typical Analysis Charts

HorseHage – Typical Nutrient Analysis (dry matter basis)

	Ryegrass	High Fibre	Timothy	Alfalfa	Hay
Energy MJ/kg	9 – 11.5	7 – 10	8 – 10	8.5 – 11	7 – 10
Protein %	9 – 12	7 – 10	8 – 9	12 – 15	6 – 12
MAD Fibre %	32 - 36	34 - 40	35 - 37	38 - 42	30 - 42
Calcium %	0.4 – 0.6	0.4 – 0.6	0.4 – 0.6	0.8 – 1.0	0.25 – 0.6
Phosphorus g/kg	2 – 3	2 – 3	2 – 3	2 – 4	1.7 – 3
Beta Carotene mg/kg	100	50	50	150	*
Vitamin E mg/kg	10	10	10	12	*
Vitamin B1 mg/kg	2.0	2.0	2.0	2.0	*
Vitamin B2 mg/kg	3.0	3.0	3.0	4.0	*
Vitamin B6 mg/kg	6.0	6.0	6.0	7.0	*
Niacin mg/kg	20	20	20	25	*
Pantothenic Acid mg/kg	15	15	15	30	*
Folic Acid mg/kg	0.6	0.6	0.6	0.8	*
Biotin mg/kg	0.06	0.06	0.06	0.075	*
Dry Matter %	55	60	60	55	85 – 92
Sugar %	<5	<5	<5	<5	8 – 12
Starch %	1 - 2	1 - 2	1 - 2	1 - 2	1

The figures represent typical samples. Individual analyses must be undertaken on particular samples for complete accuracy.  
\* After six months storage, most hay samples have negligible levels of vitamins.

Mollichaff – Typical Nutrient Analysis

	Calmer Complete	HoofKind Complete	Condition Complete	Original	Extra	Herbal	AppleChaff	ShowShine	Veteran	Alfalfa Oil	Donkey	Light Molasses Free	
Energy MJ/kg	9.8	9.0	10.5	7.5	8.0	7.5	7.5	9.5	9.0	10.5	7.3	7.5	
Protein %	7.5-8.5	5.5-6.5	10.0-12.0	4.0-6.5	4.0-6.5	4.0-6.5	4.0-6.5	4.0-5.5	7.8-9.0	14.0	5.5-6.5	4.5	
Crude Fibre %	25	28	19	24	22	24	24	23	23	33	27	32	
Oil %	5.7	7.5	6.0	0.8	0.8	0.8	0.8	9.0	4.5	9.0	3.5	8.0	
Ash %	8.0	8.5	9.5	10.5	12.5	9.5	10.5	9.0	10.0	7.0	9.0	7.4	
Starch %	2.8	2.7	8.0	0.5	0.5	0.5	0.5	0.6	1.5	2.8	2.5	3.9	
Sugar %	7-8	6-8	8.5-9.5	16-21	16-21	15-19	17-22	12-15	10.5-15	4.6	6.3-7.2	1.8	
Calcium %	1.0	1.0	1.1	1.2	1.8	1.0	1.3	1.2	1.3	1.1	1.0	1.0	
Phosphorus %	0.35	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.35	0.17	0.13	
Sodium %	0.30	0.15	0.30	0.20	0.46	0.20	0.20	0.15	0.25	0.1	0.45	0.26	
Potassium %	1.3	1.2	1.4	1.9	1.9	1.9	1.9	1.5	1.8	2.2	1.3	0.9	
Magnesium g/kg	3.1	2.9	3.6	Background levels								2.9	1.0
Vitamin A iu/kg	10,000	11,250	12,500	None Added	7,000	None Added	None Added	None Added	5,600	Background levels from forage	10,000	None Added	
Vitamin D iu/kg	1,200	1,150	1,500		1,000				575		1,200		
Vitamin E mg/kg	200	100	250		200				50		200		
Biotin mg/kg	0.5	6.0	0.6		0.06				3.0		0.5		
Vitamin B1 mg/kg	100	15	125		10				7.5		100		
Vitamin B2 mg/kg	30	10	37.5		5				5		30		
Vitamin B6 mg/kg	30	Background levels from forage	37.5		5				Background levels from forage		30		
Vitamin B12 mg/kg	0.20		0.25		0.005						0.20		
Folic Acid mg/kg	20		25		1						20		
Niacin mg/kg	20		25		5						20		
Pantothenic Acid mg/kg	20		25		5						20		
Choline Chloride mg/kg	100		125		60						100		
Copper mg/kg	30	35	40		36				20	5.0	35		
Zinc mg/kg	100	100	150		100				50	15	120		
Manganese mg/kg	100	100	150		115				50	30	120		
Selenium mg/kg	0.36	0.35	0.50		0.25				0.20	0.05	0.35		
Iron mg/kg	80	100	150		100				50	45	80		
Cobalt mg/kg	0.20	0.20	0.25		None Added				0.10	0.1	0.20		
Iodine mg/kg	0.70	1.00	0.625		1.00				0.50	0.1	0.60		
Dry Matter %	84	84	85	76	76	76	76	78	84	88	84	89	

\*Due to the natural variation in some of the ingredients used in the above products, a typical range of nutrient values is given.  
For accurate analyses, please see product labels.



# Marksway HORSEHAGE®



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