

Equine Feeds



Prince has a long tradition of producing high quality horse feeds. Prince manufactures both pelleted and texturized feeds for horses. In addition, Prince manufactures a “Horse Concentrate” pellet used by local mills for the production of their own texturized feeds or as a top-dress.

Beginning in 2007, Prince in conjunction with Kentucky Equine Research (KER), the official suppliers to the United States Equestrian Federation, launched a second line of horse feeds - PRINCE REGENCY FEEDS. Regency feeds are designed for the professional horse person to get the maximum performance from their horses, provide proper growth of young horses, and safe support nutrition for our equine senior citizens. For additional information on Prince Regency Feeds please see the section for those products. The Regency section also contains additional information regarding equine nutrition, and information on topical equine subjects.

Multiple Protein Sources

Horses have requirements for amino acids not protein. By using multiple protein sources, Prince is able to balance the proteins used provide the amino acids required by the horse.

Locked Formulas

Prince does not vary its formulations based on least cost formulation. Beyond that, we only purchase ingredients from sources with a history of providing consistent high quality products. By providing consistent high quality feed ingredients we encourage good feed consumption and steady animal production.

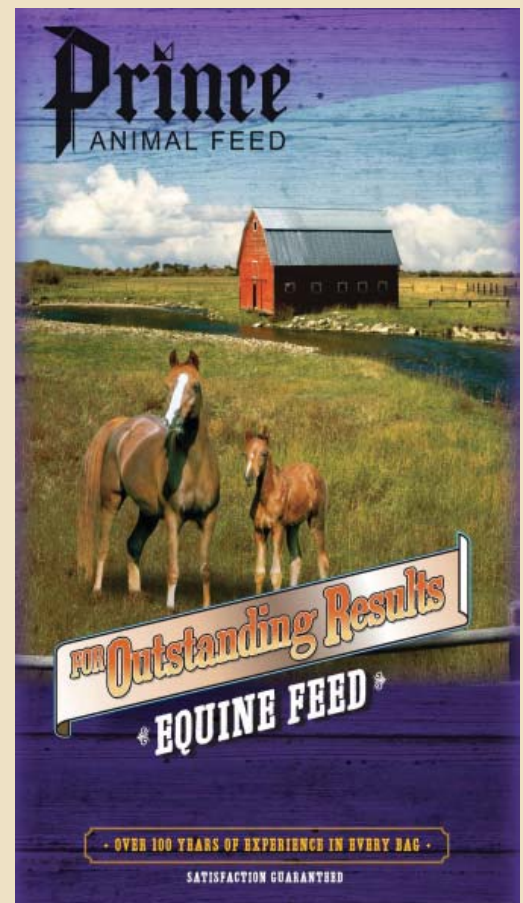
Manufacturing Technique

Prince operates its' pelleting equipment at temperatures that have been show to maximize digestibility of pellets verses those products manufactured at either cooler or warmer temperatures.

As an FDA inspected facility and a company with a reputation for quality, Prince follows rules and manufacturing practices greater than those required by the government to be sure no contamination can occur to equine feeds.

Fun Fact:

Horses younger than 4 years of age can only concentrate for a maximum of 10-15 minutes.



FEEDING HORSES - Horses are herbivores, consuming grass to meet their nutritional needs. Like cows with a rumen, horses rely on bacteria within their hindgut, large intestine and cecum, to ferment forage fibers and release volatile fatty acids that the horse can use for energy. This fermentation occurs at the end of the gut rather than in the beginning as in ruminants, and horses do not benefit from bacterial protein. These differences mean that horses are more dependent upon the quality of protein they receive than are cattle. Additionally since horses get less nutrition from the grass they consume than cattle do, they resolve this problem by consuming feed constantly. This is one of the reasons that it is important that horses have access to forage at all times. As man has asked horses to perform work, they often cannot get all of the energy they require out of forages alone, hence our need to feed a “grain” supplement.



Fun Fact:

The SMALLEST pony in history was a stallion named “Little Pumpkin.” He stood 14 inches tall and weighed only 20 pounds.

Mature horses have a relatively low protein requirement and rarely need more than 12 or 13% crude protein. Horses in the upper Midwest can be exposed to a variety of forage sources either grasses or legumes such as alfalfa or clover. Grasses and clover have widely different calcium concentrations and therefore Ca:Phos ratios. Most nutritionists try to keep Ca:Phos ratios between 1:1 and 2:1, however horses can tolerate much larger variations in calcium concentration and there is no need to have a separate supplement for those on different types of forages.

Product Offerings

Prince offers six different horse feeds under the Prince label. Each is a high quality feed with a history of providing a strong nutritional base to support the maintenance and work requirements of today’s horses.

Prince offers both texturized and pelleted feeds. Different horse owners have strong differing views and preferences regarding these two feed forms. Pelleted feeds have several advantages versus texturized feeds. The process of pelleting generally improves the digestibility of ingredients for use in the horse. Pelleted feeds cost less to manufacture than texturized feeds because they go through a manufacturing process once, whereas texturized feeds contain a pellet which is then re-blended using additional grains and molasses. Pelleted feeds are denser, i.e. more weight “per coffee can” and horse owners are switching from texturized to pelleted feed need to be sure they are feeding the same weight of feed to prevent horses from gaining too much weight. Pelleted feeds will not “freeze-up” as feeds with molasses tend to do during the winter. Prince Pelleted Feeds are palatable and are easily consumed.

Some horse owners just prefer texturized feeds. Horses consuming texturized feeds do not stop eating to get an additional drink of water, which is more likely to happen with pelleted feeds. Some owners are concerned that horses could choke by trying to eat pelleted feed too quickly. Many horse owners prefer texturized feeds as they can visually evaluate the feed as to the amount of pellet, steam flaked corn, oats, etc. that may be included in the diet.

Regardless of form preferred, Prince has a feed to meet the need. Prince offers three maintenance feeds: Quality 13% Horse Feed Pellet, 12% Adult Maintenance, and 13% Sweet Horse Feed.

Nutrient	Quality 13% Horse Feed Pellet	12% Adult Maintenance	13% Sweet Horse Feed	Sweet Multi-Feed 16
Crude Protein (min) %	13	12	13	16
Crude Fat (min) %	3.0	3.0	3.0	3.0
Crude Fiber (max) %	12.0	7.0	7.0	7.0
Calcium %	1.4 to 1.7	0.5 to 1.0	0.5 to 1.0	0.55 to 0.75
Phosphorus %	0.60	0.50	0.60	0.40
Salt %	---	---	---	---
Selenium (ppm)	0.55	0.38	0.40	0.50
Vitamin A IU/lb	2400	6000	6190	8000
Vitamin D ₃ IU/lb	650	720	740	2000
Vitamin E IU/lb	10	40	40	20



Feeding Directions:

Prince horse feeds can be fed from 1/2 to 1 1/2 lbs. per 100 lbs. of body weight, according to needs of the horse, more for active horses. Horses should never be feed more than 3/4 lb. per 100 lbs. of body weight at any one feeding and preferably never more than 1/2 lb. per 100 lbs. of body weight at any one feeding.

Prince horse feeds contain selenium. Horse owners should not feed a combination of Prince Feeds

and other supplements that could result in a diet, which contains a total of more than 0.3 ppm of Selenium.

Prince horse feeds do not contain salt. Horses should be provided salt free choices in the form of either salt blocks or free granules.

Other Prince Feed for use in Horses

Prince also manufactures "Sweet Multi-Feed." This product is a texturized feed for use in multiple species including horses, cattle, llama and goats. It should not be used for sheep because of the greater Copper concentration. One should follow the same feeding instruction as listed above for dedicated horse feeds.

Fun Fact:

The OLDEST horse recorded to date is "Old Billy," an English Barge horse born in 1760 who lived to the age of 62.

BLENDING ONES OWN HORSE FEED

Prince manufactures a pellet with concentrated nutrients for use in manufacturing sweet feeds or feeding as a supplement as a top dress.

Nutrient	Sweet Horse Concentrate
Crude Protein (min) %	25
Crude Fat (min) %	1.5
Crude Fiber (max) %	7.0
Calcium %	2.5 to 3.5
Phosphorus %	1.6
Salt %	2.25 to 2.50
Copper (ppm)	75
Zinc (ppm)	180
Selenium (ppm)	1.44
Vitamin A (IU/lb)	22500
Vitamin D (IU/lb)	2700
Vitamin E (IU/lb)	120



As a top dress product, Sweet Horse Concentrate should be fed at the following rates:

Type of Horse

Feeding Rate

Growing Horses

1 lb. of Sweet Horse Concentrate to 1 lb. of grain

Mature Horses

1 lb. of Sweet Horse Concentrate to 1 lb. of grain

Performance Horses

1 lb. of Sweet Horse Concentrate to 1 lb. of grain

The following chart describes how to blend horse feeds of 12, 14 or 16% Crude Protein using Sweet Horse Concentrate.

	12% Crude Protein Horse Feed	14% Crude Protein Horse Feed	16% Crude Protein Horse Feed
Sweet Horse Concentrate	300	550	850
Whole Oats	1000	850	650
Cracked Corn	600	500	400
Cane Molasses	100	100	100
TOTAL	2000	2000	2000
NUTRIENT CONTENT*			
Crude Protein (min) %	12.0	14.0	16.3
Crude Fat (min) %	3.6	3.4	3.4
Crude Fiber (max) %	7.0	6.8	2.1
Calcium %	0.4 to 0.5	0.6 to 0.8	0.5 to 0.9
Phosphorus %	0.5	0.6	0.5
Salt %	0.2 to 0.4	0.4 to 0.6	0.3 to 0.5
Selenium (ppm)	0.22	0.41	0.16
Vitamin A (IU/lb)	3300	6100	9500
Vitamin D (IU/lb)	500	930	1400
Vitamin E (IU/lb)	22	40	64

Fun Facts:

Horses lie down for only about 43.5 minutes a day.

A horse typically sleeps 2 1/2 - 3 hours a day.

The above chart was developed with generally accepted nutritional values for the ingredients used.

Actual results will vary with actual nutritional content of ingredients.

As with Prince manufactured horse feeds, the above rations should be between 1/2 and a maximum of 1 1/2 lbs. per 100 lbs. of body weight.

PRINCE HI-FIBER HORSE CUBES

Prince developed Hi-Fiber Cubes to meet two different purposes. First, it provides a safe way to extend the use of hay sources that a producer may be using. Secondly, it provides an excellent product for those looking to supply a low starch feed. Additionally, the 5/8 inch die used to make the product results in a particle size that slows down consumption without limiting intake. Prince Hi-Fiber Cubes are manufactured with three very digestible fiber sources including beet pulp, soy hulls and alfalfa meal. Wheat midds, another digestible fiber source, is used to allow the cube to be formed in manufacturing.

Prince Hi-Fiber Cubes can easily be added to the diet of any horse without having to rely on long feed transitions. Prince Hi-Fiber Cubes are also highly palatable and make excellent treats. Prince Hi-Fiber Cubes can completely replace the grain or concentrate portion of the ration. It contains chelated minerals, ground flax seed (a source of omega 3 fatty acids) and natural Vitamin E, improved biological availability.

Fun Fact:

Horses' hooves grow approximately 0.25 in a month, and take nearly a year to grow from the coronet band to the ground.



Nutrient	Hi-Fiber Horse Cubes
Crude Protein (min) %	13
Crude Fat (min) %	2.4
Crude Fiber (max) %	25*
Calcium %	0.8 to 1.2
Phosphorus %	0.5
Salt %	0.4 to 0.6
Copper (ppm)	27
Zinc (ppm)	94
Selenium (ppm)	0.3
Vitamin A (IU/lb)	5200
Vitamin D (IU/lb)	850
Vitamin E (IU/lb)	33

*The fiber content and non-structural carbohydrates (NSC) content of Prince Hi-Fiber Cubes are similar to early bloom alfalfa hay or vegetative brome grass.



For additional information on raising horses...
we recommend the following website which provides extensive information on all aspects of horse operations:

<http://www.extension.umn.edu/horse/>

<http://www.horsequest.info/>