



DEFIANCE

**A Series of Low-Starch Horse Feeds
Formulated for Performance**

DEFIANCE[®] is Ranch-Way's premium line of **highly-fortified, low-starch** horse feeds developed using innovative equine nutrition technology for the benefit of equine health, vitality, and optimum performance. DEFIANCE[®] is novel in the market-place as it is comprised of a series of feeds that are low in non-structural carbohydrates (NSC). The DEFIANCE[®] horse feeds are developed for all horses, and is a healthy solution for high performance athletes, breeding mares and stallions, thin horses needing to gain weight safely, and senior horses. The low NSC in the DEFIANCE[®] Series makes these feeds an ideal solution for horses that are sensitive to sugars and/or starches due to metabolic disorders such as Cushing's Disease (hyper secretion of cortisol), RER (recurrent exertional rhabdomyolysis), EPSM/PSSM (equine polysaccharide storage myopathy), insulin resistance, metabolic syndrome, and cases dealing with chronic colic or laminitis.

Additional Features:

- ★ **Probiotics / Direct-Fed Microbials** to improve fiber digestion and increase trace mineral absorption.
- ★ **Organically-sourced trace minerals**, such as chelated Copper, Zinc, and Manganese, plus organic Selenium, increase trace mineral absorption and improve mineral status.
- ★ **Omega-3 and 6 fatty acids** derived from flax seed, rice bran, and soybean oil to decrease inflammation and enhance immune function.
- ★ **Mannan-oligo-saccharide (MOS)**, isolated from yeast cell wall, is an effective strategy against harmful bacterial that may otherwise attack the intestinal tract of the horse.
- ★ **Essential amino acids**, such as Lysine, Methionine, and Threonine, enhance protein quality in the diet and support the horse's muscle mass.

	RANCH-WAY DEFIANCE LOW STARCH FEEDS				Nutrena's Safe Choice	Triple Crown's Low Starch	Purina's Well Solve
	Sound Starch	Senior	Hi Fat Senior	Vital Edge Pelleted Mineral			
NSC¹	10.5 %	9.6 %	5.6 %	11.1 %	11 - 20 %	10.4 %	7 %
Simple Sugars¹	2.2 %	3.4 %	2.7 %	6.8 %	5 - 8 %	3.1 %	4 %
Crude Protein²	14 %	14 %	14 %	12 %	12 - 16 %	13 %	12 %
Crude Fat²	7%	8 %	10 %	3 %	5 - 9 %	6 %	5.5 %

¹ Values are all reported on an As-Fed basis. The Starch and Sugar values are based on sample analysis conducted by an independent commercial lab and/or company published data.

² The Crude Protein and Fat values are as listed as minimum values on company published feed labels for each product (As-fed).

NSC = Water Soluble Carbohydrates (WSC) + Starch

WSC = carbohydrates solubilized and extracted in water; includes mono, di, and polysaccharides (mainly fructans) and simple sugars (ESC).



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Sound Starch is a highly-fortified pelleted horse feed that has a low level of non-structural carbohydrates (NSC, 12.7%). The low level of carbohydrates inherent in the Sound Starch formula make this feed safe to offer horses sensitive to sugar and starch. Horses that are good candidates would be those that are sensitive to sugars or starches because they have Cushings (hyper secretion of cortisol), RER (recurrent exertional rhabdomyolysis), EPSM/PSSM (equine polysaccharide storage myopathy), are insulin resistant, or are chronic colic-ers or chronically laminitic. The combination of high quality fat- and fiber-based ingredients (such as Soybean Hulls, Beet Pulp, Distillers Dried Grains with Solubles, Extruded Soybeans, Ground Flax Seed, Rice Bran, and Soybean Oil) make Sound Starch an energy dense horse feed perfect for high performance athletes, breeding mares and stallions, and thin horses needing to gain weight safely.



Sound Starch Senior is a highly-fortified pelleted horse feed that has a low level of non-structural carbohydrates (NSC, 9.9%), making it a safe feed to offer senior horses sensitive to sugar and starch in their diet. The combination of high quality fat and fiber-based ingredients (such as Soybean Hulls, Wheat Middlings, Beet Pulp, Soybean Meal, Dehydrated Alfalfa, Soybean Oil, Stabilized Rice Bran, and Ground Flaxseed) make Sound Starch Senior an energy dense horse feed perfect for maturing horses needing to gain or maintain weight safely. The low NSC in Sound Starch Senior makes it an ideal feed for horses that are sensitive to sugars or starches due to metabolic disorders such as Cushing's disease (hyper secretion of cortisol), RER (recurrent exertional rhabdomyolysis), EPSM/PSSM (equine polysaccharide storage myopathy), insulin resistance, and chronic colic or laminitis.



Senior Hi Fat is a highly-fortified textured high-fat (10%) horse feed designed for the mature horse needing additional calories, particularly those that are thinning with age. Similar in philosophy to the Sound Starch Senior, the Defiance Senior Hi Fat also has a low level of non-structural carbohydrates (NSC, 12.2%), making it a safe feed to offer senior horses sensitive to sugar and starch in their diet. Additionally, Defiance Senior Hi Fat contains loose beet pulp shreds to offer a bulky fiber source to those horses having difficulty consuming hay or forage. When soaked in water, this feed is extremely easy for horses with dental issues to readily consume. The balanced Omega 3 and 6 Fatty Acid profile of this feed can decrease inflammation and enhance immune function in older horses. Due to the loose beet pulp, this feed has additional soybean oil and added molasses to improve the safety and palatability of the feed.



Vital Edge Pelleted Mineral is a highly-fortified, low-calorie, pelleted supplement designed to meet the vitamin and mineral requirements of all classes of horses in a small feeding rate (~1 lb/hd/day). Ideal for horses that are sensitive to sugar and starch, are prone to being over-weight, or may be lacking in certain vitamins and minerals. Can be fed alone as a forage balancer, or with mixed with grains, such as oats (to adjust the energy content of the diet as needed) and should be fed in addition to 1.0 to 2.0 % of the horse's body weight in hay or pasture each day. Other than free-access to white salt, no additional vitamin or mineral supplementation is needed.

