



## Hemp for Livestock

Hemp seed is known globally for its use as an excellent skincare ingredient, as well as in human food because it is high in Essential Fatty Acids – the omegas, omega-3, omega-6, omega-9 and GLA, as well as being high in protein that contains all the amino acids.

Legislation from country to country varies and you need to check with your country's legislation before following any tips you may hear.

The hemp seed, actually a tiny nut, is comprised of a hull and a meaty inner core. Whole hemp seeds have traditionally been used for birdfeed.

In Canada, the U.S. and some Asian countries, toasted whole hemp seed is consumed as a snack food comparable to toasted sunflower seeds. However, most of the seed's value is derived from either de-hulling the whole seed and/or crushing it for oil, as the inner core is an excellent source of desirable fatty acids and proteins.

### The Perfect Protein

Hemp is the only food source with all the essential fatty acids, all the essential amino acids, and all the protein needed to sustain human life as well as animals. Green Hemp seeds are only partially hulled and then ground at low temperatures to a coarse meal.

This meal contains the nutrient-rich green skin which contains the majority of chlorophyll and fiber.

Even with the skin, these seeds are smooth and creamy and easily edible. Contain the bran, the germ, and the endosperm. Hemp seed meal is raw, enzyme active and organic.

This product is a by-product from the milling of the seed and is a great chook-food supplement to add protein, fiber and omegas to the diet of most of farm animals.

Hemp Seed Meal Contains Omegas 3, 6, 9, all known amino acids, Boron, Copper Iron Manganese, Nitrogen and Zinc.

There is increasing scientific evidence that Omega 3 and Omega 6 Polyunsaturated Fatty Acids also play important roles in animals with conditions such as pruritic skin disease, atopic dermatitis, allergies, degenerative joint disease, neoplasia, thromboembolic disease and eosinophilic granuloma complex.

Hemp Seed Oil and Hemp Seed Cake (meal) has great potential in the animal industry. Immediate applications include the addition of Hemp meal and its protein into animal food/concentrates and the oil as a supplement.



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Hemp meal, the seedcake remaining from the crush, contains a large fraction of protein, with a composition similar to that of soy. This makes it an ideal animal feed, but further processing will also yield superior products for human consumption.

Hemp Seed Meal is sometimes known as hemp protein flour. This is not the same as hemp protein. Hemp Protein is made from hemp seed meal, which is the by-product of pressing hemp seed oil.

Since the crushed seed is usually extruded into small pellets ideal for animal feed, this segment has been an obvious market for hemp meal.

Animals such as horses and cows respond well to hemp meal as a dietary supplement as it is high in protein as well as the residual EFA's.

Recent trials in Kentucky reveal that hemp-fed cattle require less feed and digest it more efficiently. As most of the feed market operates on the basis of "protein per pound," soymeal is the main competitor. Hemp meal marketers would do well positioning the meal as a supplement for diets that require EFA's in addition to protein to command the higher price.

As the benefits of hemp are promoted, this market will develop into a clear niche.

Hemp oil's primary value is its high content of the two essential fatty acids (EFA's) Omega-3 and Omega-6. Essential to tissue growth and metabolism, these critical EFA's cannot be produced by the body and must instead be present in the diet.

Intake of both EFA's in sufficient amounts and proper balance is essential for prevention or treatment of a wide range of conditions.

With an EFA content of about 75%, hemp oil not only contains one of the highest amounts of EFA's of all plant oils, but it also contains a significant amount of the Omega-3 EFA which is often deficient in the animal diet. It is balanced EFA ratio, which closely matches with most of farm animals nutritional requirements.

### Advantages of Hemp seed meal

- Hemp is an alternative to straw and in addition to the bulk grass or corn that the cows eat.  
The fiber supplement is required for the contraction of the rumen to stimulate and improve digestion.
- Cows that eat hemp give a little more milk and are especially healthy.
- In the longer term, life expectancy and therefore increase efficiency.



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- The cultivation of hemp fiber is cheap, simple and durable.
- Cows fed on hemp seed meal, provides up to four liters of milk more per day than cows that have been traditionally feed. It shows a Swedish study, according [landbrugsavisen.dk](http://landbrugsavisen.dk)