

LEGUMINOUS SEEDS AND THEIR PRODUCTS.

Beans.—Beans are out of the question at the present time as a feed for stock except it may be cull beans. The table shows beans to have a very high percentage of protein and a fairly low percentage of fibre, with only a moderate amount of nitrogen-free extract. Cull beans have a high feeding value, but the trouble is they are not very palatable to most animals. Sheep will eat them freely, but for pigs the beans must be cooked. Cattle will eat them under protest if mixed with other kinds of meal.

Field Pea.—The field pea is also out of the question as a feed for stock in this country at present. It will be noted that peas are similar in composition to beans and have about the same value as a feed, with the difference that most classes of stock are fond of peas whereas beans are generally disliked.

There are two by-products of peas from the mills which manufacture split peas for soup, namely, pea bran and pea hulls. It will be noted that both these by-products are low in protein and extremely high in fibre as compared with wheat bran. A strange fact is that pea bran is selling on some markets at the same price per ton as wheat bran, whereas wheat bran is worth considerably more, as the composition plainly indicates.

Peanut Cake.—It is quite possible that peanut cake will never become prominent on our markets, but, owing to the extremely high price for all kinds of feeds at present, it is hard to say just what may appear on Canadian markets, and hence this by-product has been included in the list. It will be noted that peanut cake, made from hulled nuts, is extremely rich in protein and fairly low in fibre. It is also high in fat. In other words, it is an extremely rich concentrated food, and ranks with the highest grade cottonseed meal in value. It will also be noted that peanut cake made from seeds from which the hulls had not been removed is very much lower in protein and very much higher in fibre. Cake of this nature ranks in value with the lower grades of cottonseed meal.

OIL BEARING SEEDS AND THEIR PRODUCTS.

Cocoanut Meal.—This product is very little known in Canada, but it is being introduced in some parts and hence is worthy of consideration. Compared with wheat bran it has considerably more protein, but it is also somewhat higher in fibre. In fat it is considerably higher than wheat bran. On the whole, therefore, cocoanut meal should be worth several dollars a ton more than wheat bran, especially as a feed for dairy cows.

Cottonseed Meal.—Regarding cottonseed meal it must be remembered that it is valuable for a specific purpose, and that is for increasing the protein content of a ration. Cottonseed meal is not suitable for all classes of stock and for any class of stock it should be used in moderation. Dairy cows or fattening cattle will take two pounds per day, per head, without any injury, and horses will take one pound a day without danger. It is true these quantities are frequently exceeded, but when a person is feeding three pounds or more of cottonseed meal to a cow per day he is venturing upon dangerous ground. For calves and pigs cottonseed meal had better not be used at all. It is true these animals may be fed very small