

# Putnam's Drug Store

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## SELECT CAREFULLY FEED FOR DAIRY COWS

Cost an Important Factor.

Clemson College.—In selecting feed for the dairy ration one should consider their cost as well as their food value. The higher the price of feeds the more important it is to buy and feed economically.

For the purpose of studying the cost of feeds and comparing their feeding value, the amounts of "digestible protein" and of "total digestible nutrients" are the most important factors to consider. The digestible protein is the nitrogenous part of the feeds that can be used by the animals for the growth and repair of its muscles, skin, hair, etc., and to carry on certain life processes including the production of casein in milk. The total digestible nutrients are used by the animal to produce heat and energy. They include the carbohydrates and fats as well as the protein. The farmer who expects a profit from his dairy cows considers the cost of feed most important. This, however, does not mean the cost per ton or bushel, but refers to the cost of the food nutrients contained in the various feeds. Some feeds may cost more per ton but their food nutrients will cost less than nutrients in other feeds. For example, a farmer might be confronted with the problem of selecting a high protein concentrate for his ration. Suppose he can buy 38.5% cotton seed meal for \$55.00 per ton and 20% cotton seed feed at \$45.00 per ton. To ascertain which is the most economical the total pounds of digestible protein and total nutrients should be divided by the price per ton. So, in order to make this determination quickly the following table has been prepared so that one can easily determine which is the cheapest feed. After referring to the table, we note that for one dollar you can buy 12 pounds of digestible protein in 38.5% cotton seed meal and only 6.3 pounds in 20% cotton seed feed. In other words 38.5% cotton seed meal at \$55.00 per ton is nearly twice as cheap a source of protein as is 20% cotton seed feed.

On the other hand, when one is to select a roughage, like comparisons may be made, only more attention should be placed in the total digestible nutrients. For example, suppose one could buy cotton seed hulls for \$20 per ton and corn stover for \$10 per ton. Referring to the table, we find that for one dollar we can buy, at the above prices, 37 lbs. of total digestible nutrients in the form of hulls and 104.4 lbs in corn stover. Corn stover then, at the above prices, would be nearly 3 times as cheap as hulls.

For \$1.00 You Can Buy

	When price per ton is	Protein.	Carbohydrates.	Total Digestible Nutrients.
<b>High Protein Feeds.</b>				
Cotton-seed Meal 38½%	\$50.00	13.3	16.9	30.2
Cotton-seed Meal 38½%	55.00	12.0	15.4	27.4
Cotton-seed Meal 38½%	60.00	11.1	14.0	25.1
Cotton-seed Feed 20%	50.00	5.68	17.32	23.0
Cotton-seed Feed 20%	45.00	6.31	19.2	25.5
Velvet Bean Meal (seed and pod)	40.00	7.45	30.15	37.6
Velvet Bean Meal (seed and pod)	45.00	6.6	26.8	33.4
Velvet Bean Meal (seed and pod)	50.00	5.9	24.1	30.0
Velvet Bean Meal (seed and pod)	55.00	5.4	21.9	27.3
Soy Bean Meal (\$1.50 per bu.)	50.00	12.3	22.0	34.3
Soy Bean Meal (\$2.00 per bu.)	66.00	9.3	16.7	26.0
Soy Bean Meal (\$3.00 per bu.)	100.00	6.1	11.1	17.2
Peanut Meal	50.00	17.0	14.7	31.7
Peanut Meal	60.00	14.2	12.2	26.4
<b>Medium Protein Feed.</b>				
Wheat Bran	35.00	7.1	27.7	34.8
Wheat Bran	40.00	6.2	27.2	30.4
Wheat Bran	45.00	5.5	21.5	27.0
<b>Carbohydrate Feeds.</b>				
Oats (\$0.40 per bu.)	25.00	7.7	48.6	56.3
Oats (\$0.48 per bu.)	30.00	6.4	40.5	46.9
Oats (\$0.56 per bu.)	35.00	5.5	34.7	40.2
Oats (\$0.64 per bu.)	40.00	4.8	30.4	35.2
Oats (\$0.72 per bu.)	45.00	4.3	26.9	31.2
Oats (\$0.80 per bu.)	50.00	3.9	24.1	28.0
Oats (\$0.96 per bu.)	60.00	3.2	20.2	23.4
Oats (\$1.12 per bu.)	70.00	2.77	17.33	20.1
Corn, \$1.25 per bu. (shelled)	44.00	3.4	35.5	38.9
Corn, \$1.50 per bu. (shelled)	53.00	2.8	29.5	32.3
Corn, \$1.75 per bu. (shelled)	62.00	2.4	25.2	27.6
Corn, \$2.00 per bu. (shelled)	71.00	2.1	22.0	24.1
Corn, \$2.25 per bu. (shelled)	80.00	1.9	19.5	21.4
Corn and Cob Meal (ear corn) \$1.75 per bu.	52.00	2.3	27.7	30.0
Corn and Cob Meal (ear corn) \$2.00 per bu.	63.00	1.95	22.85	24.8
<b>Legume Roughages.</b>				
Cow-pea Hay	12.00	21.8	69.8	81.6
Cow-pea Hay	16.00	16.3	44.9	61.2
Cow-pea Hay	20.00	13.1	35.9	49.0
Cow-pea Hay	24.00	10.9	29.9	40.8
Velvet Bean Hay	20.00	12.0	43.5	55.5
Soy Bean Hay	12.00	19.5	69.8	89.3
Soy Bean Hay	16.00	14.5	52.5	67.0
Soy Bean Hay	20.00	11.7	41.9	53.6
Soy Bean Hay	24.00	9.7	34.9	44.6
Alfalfa Hay	15.00	14.1	54.7	68.8
Alfalfa Hay	20.00	10.6	41.0	51.6
Alfalfa Hay	25.00	8.5	32.7	41.2
Alfalfa Hay	30.00	7.06	24.0	31.06
<b>Carbonaceous Roughages.</b>				
Cotton-seed Hulls	5.00	1.2	146.3	148.0
Cotton-seed Hulls	10.00	.6	73.4	74.0
Cotton-seed Hulls	15.00	.4	47.9	49.3
Cotton-seed Hulls	20.00	.3	36.7	37.0
Cotton-seed Hulls	25.00	.24	28.36	28.6
Corn Stover (ears removed)	8.00	5.5	125.5	130.5
Corn Stover (ears removed)	10.00	4.4	100.0	104.4
Corn Stover (ears removed)	12.00	3.6	83.4	87.0
Corn Stover (ears removed)	15.00	2.9	66.7	69.6
Oat Straw	6.00	3.3	148.7	152.0
Oat Straw	8.00	2.5	111.5	114.0
Oat Straw	10.00	2.0	89.2	91.2

### PALATABILITY IMPORTANT.

In selecting feeds one should also consider their palatability. A cow will give better returns if she relishes her food, and it is known that a cow will eat larger quantities of palatable feeds and at the same time the feeds will be more completely digested. If a farmer fails to consider palatability he may not get the most out of his feeds. For example, in looking over the legume roughages in the table, we note that at the same prices, alfalfa, and soy bean hay are about equal in the number of pounds of total nutrients which can be purchased for one dollar. But we will remember that the cows will eat up all the alfalfa while they will leave considerable soy bean hay. So at the same price alfalfa would be the cheaper feed.

**Bulk.**  
A cow digests her feed to the best advantage when her grain ration has a certain amount of looseness or bulk which enables the digestive juices to penetrate and readily act on the mass of feeds. Never feed cotton seed meal alone and expect to get good results. Mix it with feeds such as corn and cob meal and velvet bean meal.

**Variety.**  
To often farmers of the South are content to feed only cotton seed meal and hulls. This kind of ration will certainly not make it possible for a cow to do her best. Recent investigations show that proteins in all plants are not alike, and that if animals are fed alone on products of one plant they will not be properly nourished. Consequently, it is well to select feeds from a variety of sources; such as corn and cob meal, velvet bean meal, cotton seed meal and peanut meal.

**Succulence.**  
Each feed has a certain effect upon the digestive system of the cow. For example, wheat bran, alfalfa and silage may cause a laxative condition, while other feeds such as cotton seed meal have a tendency towards constipation. It is important that a slightly laxative condition be maintained in the digestive system of the cow, for she can digest her feed much easier and absorb it more efficiently when it is combined with a considerable amount of moisture. The abundant milk flow obtained from good pasture is due to the succulence of the grass. Silage provides succulent feed during winter and periods of drought when pasture is not available. With silage in the ration dairy cattle can be kept in the condition of health common to cows on good pasture. Silage is palatable, and no other feed will combine so well with dry hay and a little grain to produce maximum economical results. The Mississippi Experiment Station found that cows receiving silage increased in milk flow nearly 37 per cent over those fed on dry feeds and did so at a reduction of 39 per cent in the cost of feeding.

It pays to have a silo. If interested, write the Dairy Extension Division, Clemson Agricultural College, Clemson College, S. C., for further information.

### Boys Must Write Home.

Washington, Jan. 25.—Failure of relatives and friends at home to hear from many members of the expeditionary forces has led General Pershing to order every man in the American army in France to mail to his nearest relative a postcard giving the present location, state of health and military unit of the writer. General March announced the order today and said special postcards were being supplied for the purpose.

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## ON CASH BASIS

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Laurens Oil Mill

## PERUNA

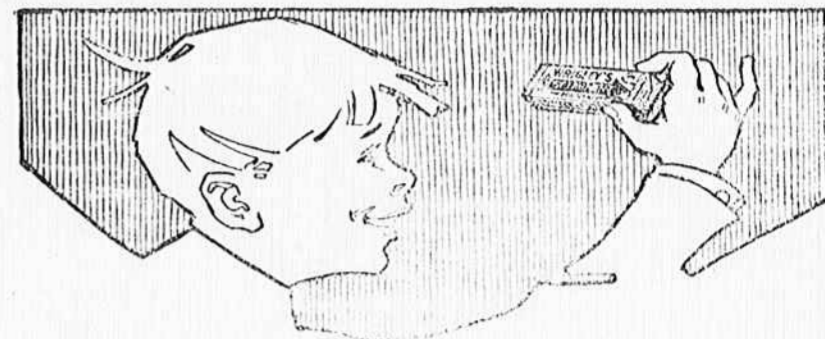
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Mr. Louis Young, 205 Merrimac St., Rochester, N. Y., writes:

"I suffered for thirty years with chronic bowel trouble, stomach trouble and hemorrhages of the bowels. We bought a bottle of Peruna and I took it faithfully, and I began to feel better. My wife persuaded me to continue, and I took it for some time as directed. Now I am a well man."

Suffered thirty years with stomach trouble and hemorrhages of the bowels.

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