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A Beatrice No. 43 Cream Separator costs \$65. Its capacity is 550 to 600 pounds per hour. Other prominent makes of machines of this size cost \$100 and upward. The Beatrice has "made good" for many years in the Central Western States. It has no superior for efficiency or for durability. It costs 50 per cent. less; repair parts are 50 to 75 per cent. less and it is the easiest machine made to clean and to take care of. The prices are: 600 pound capacity, \$65; 800 pound capacity, \$75; 1000 pound capacity, \$85. Prices f. o. b. Edmonton.

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Palmer's "Moose Head Brand"

are made by specialists, on easy fitting right and left lasts. If your dealer hasn't them, send his name and \$3.25 (postal or express order), stating size, and we will deliver a pair all charges paid to your address, anywhere in Canada or U. S. The same style 8 eyelets high, \$3.75. Write for catalogue G. JOHN PALMER CO., Limited, Fredericton, N. B., Canada. 24

The Feeding Value of Corn

Continued from Page 10

about as good returns and can be used to advantage.

Barley is a little lighter than wheat, owing to the husk that is wrapped about the kernel. It is a valuable fattening food, giving about as good results pound for pound as corn of wheat. It is rather heating in nature—too much so to feed exclusively to any farm animal. Owing to the smallness and hardness of the grains, it is usually ground or boiled. Boiled barley fed to horses acts as a tonic, while if fed as a ration in the natural state it acts as a poison and causes the horse's coat to become rough and "starey." Neither cattle nor horses respond well to long feeding on barley as a sole grain diet. Its flavor is not so pleasant as oats, corn or wheat and so it is not so palatable. Barley is better fed mixed with other grains. It is equal to corn for finishing pork.

Flax seed meal is rich in protein and oil. It is not a grain that can be fed heavily to any class of stock. It has a regulating effect upon the digestive organs and should be fed in not too large quantities along with other grains. It is usually too high priced to feed, owing to the demand for the seed for oil making purposes. It is especially valuable for calf feeding to take the place of whole milk.

Bran, besides having good feeding qualities, is like flax seed, a regulator and a tonic. It contains good amounts of protein and ash. It is not a fattening

Wheat	\$ 1.06 per bushel or \$1.77 per 100 pounds
Oats	.55 per bushel or 1.62 per 100 pounds
Barley (feed)	.75 per bushel or 1.56 per 100 pounds
Flax	1.35 per bushel or 2.41 per 100 pounds
Corn	.84 per bushel or 1.50 per 100 pounds
Bran	23.50 per ton or 1.17½ per 100 pounds
Shorts	27.00 per ton or 1.35 per 100 pounds

Rations for different classes of animals vary in the amount of nutrients of various kinds that they must contain. Dairy cattle require what is termed a fairly narrow ration, owing to the fact that they use protein in quantities in making milk. Beef cattle make use of wider

food, but it is very useful in feeding calves, colts, dairy cows, brood mares and stallions. It forms an important part of all rations when it can be purchased at not too high a cost. It is almost indispensable for feeding the above classes of animals except where alfalfa can be substituted for it.

Shorts is a by-product from wheat, somewhat similar in composition to bran, but different in physical properties. Shorts is indispensable for feeding little pigs. Bran is too bulky and too coarse for this purpose. Shorts is used extensively for feeding dairy cattle and to some extent in horse rations.

The "King of Grains"

Corn is called the "king of the grains" all over the Middle West States. It is poor in protein and ash, but rich in starch and oil. It is used largely for feeding to hogs and beef cattle for fattening purposes and to horses at work in winter. It is, however, no better than barley or wheat in this respect, except that it is more palatable than either. It is too poor in protein and ash to feed exclusively to young animals, dairy cows or to breeding animals. Corn is not a balanced ration and must be mixed with other grains such as oats, bran, shorts and ground alfalfa.

Corn was a good crop in the Central States this year and feed corn is selling in Minneapolis at about 58 cents per bushel. The prices of different feeds vary according to the locality. The quotations in Saskatoon, December, 1914, were:

Rations. Pigs in the latter stages of fattening require wider rations than when they are growing. Work horses require wider rations and larger rations than do young horses. The following rations afford a basis for study:

Ration No. 1			
Ration for dairy cow weighing 1,000 pounds and giving 30 pounds of milk:			
Corn meal	6 pounds at \$1.50	per 100 pounds	Cents .09
Wheat bran	2 pounds at 1.17½	per 100 pounds	.0235
Wheat shorts	2 pounds at 1.35	per 100 pounds	.027
Prairie hay	18 pounds at 8.00	per ton	.072
			.2125

Ration No. 2			
Oats, 10 pounds			.162
Bran, 2 pounds			.0235
Shorts, 2 pounds			.027
Prairie hay, 18 pounds			.072
			.2845

Both rations can be improved by adding 1½ pounds of flax seed meal, which would increase the cost by 3½ cents. Green oat sheaves can replace prairie hay either in whole or in part. If barley can be had at 1½ cents per

pound, 3 pounds of corn in the first ration and 4 pounds of the oats in the second may be replaced by it. A variety of food makes a more palatable ration. Corn rations for work horses, 1,200 pounds in weight.

Ration No. 1—9 pounds corn			
3 pounds bran			.035
1 pound shorts			.0135
12 pounds hay or oat sheaves			.048
			.2315
Ration No. 2—6 pounds corn			
6 pounds bran			.0705
12 pounds hay			.048
			.2085
Ration No. 3—6 pounds bran			
6 pounds shorts			.0705
12 pounds hay			.081
			.2659
Ration No. 4—12 pounds oats			
2 pounds bran			.0235
12 pounds hay			.048
			.2659

All of the above rations have proven satisfactory for feeding work horses in winter. No other grain or combination of grains have been found that will take the place of good oats. Oats render the work horse hard and spirited; other combinations render him soft and "logy." A little flax seed may be added to the above rations, especially if straw has to be fed for roughage.

Brood mares should receive more bran with less corn. Corn does not require to be ground for horses. However, when

feed is high priced a saving of about 8 per cent. can be made by grinding.

Ration for beef cattle.—Corn and barley are about equal in feeding value; corn with barley is better than barley alone. For finishing cattle the following ration is satisfactory.

Corn	9 pounds
Bran	1 pound
Flax seed meal	1 pound
Roughage	20 pounds

About one pound per day of this mixture for every hundred pounds live weight of

Winnipeg, Man., 23rd Feb., 1915.
International Loan Co., Ltd.,
Winnipeg, Man.

Dear Sirs:—

I duly received your letter this morning, enclosing dividend cheque for 12% for the year ending January 31st, 1915. I am well pleased with my investment and was pleased that you had such an enthusiastic annual meeting as took place on February 15th.

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I remain,

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M. McInnes

Manager, Dominion Lumber & Fuel Co.

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