

strict can be taken as a reliable basis for the whole country, and we see no reason why they may not, the shrinkage for the month of October is less than 3,600 tubs as compared with the same month in 1901.

The number of retail licenses taken out in the Chicago office from July 1 to October 31 was 2,446, while the entire number for the whole of last year was 2,452.—New York Produce Review.

Milk-Condensery Prices.

Mr. E. B. Willey, who travels for one of San Francisco's creamery supply houses, is a native of New Berlin, New York, where is located one of the plants of the Borden Condensed Milk Company. He has recently received from there an account of what the dairymen receive for their milk from the condensery people, says San Francisco Dairy Produce. In October last the price was \$1.45 per hundred pounds; November, \$1.55; December, \$1.65; January, \$1.65; February, \$1.50, and March \$1.40—an average of \$1.53 for these winter months.

In 1895 the Borden Condensed Milk Company put in a condensery at that place, which at that time had 950 inhabitants. The population has increased to 1,450 at the present time, the growth of population being attributed almost wholly to the condensery. The supply of milk has increased every year since the factory was established. The concern not only condenses the milk, but also manufactures the cans in which the product is put. The plant covers ten acres. In the flush of the season it obtains milk from 400 dairymen and gives employment to 200 persons, and pays out as much as \$50,000 per month to dairymen and employees. The largest amount of milk received in one day was 216,094 pounds. It took 10 barrels of sugar to sweeten this amount and 45,000 pounds of coal to condense it.

COMPOSITION OF LINSEED MEAL.

As is well known, flax is valuable not only for the oil products that are obtained from it, but also for the meal which is left after the oil has been removed. A bulletin from the Minnesota station says that the composition of linseed meal varies according to the thoroughness with which the oil has been removed from the seeds. When the oil is extracted with chemicals, as is the case with the new process oil meal, very little fat is left in the product. On the other hand, when the oil is extracted with pressure, leaving what is known as old process oil meal, the product contains from 7 to 8 per cent. of fat.

The average composition of twelve samples of oil meal used in various feeding experiments at the station showed that about 7 per cent. of fat or oil was the usual amount present. In some cases the fat left in the meal was as high as 9 per cent, and in one case it was as low as 5 per cent.

The average amount of protein in the oil meal is 32.50 per cent. It is this constituent or nutriment which gives the high value to the oil meal. The oil meal is a very concentrated protein food. It is valuable because it furnishes such a large amount of material for replenishing the waste tissues of the body, the construction of muscles, and the stimulation of milk production. Nearly a third of the weight of the oil meal is this vital nu-

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triment known as protein. In the making of oil practically all of the protein of the flax seed is recovered in the oil meal. In fact the oil meal is richer in protein than the original oil seeds, because the forty pounds of oil meal contains all of the protein in the original sixty pounds or bushel of flax seed.

The amount of fiber in linseed meal ranges from 7.20 to 9.7 per cent., 8.5 per cent. being about the average, which is larger than the fiber in wheat bran, but is not quite as large as the amount in shorts. As a rule there is less than 10 per cent. of water in linseed meal. The amount of ash is about 5.25 per cent., while the amount of carbohydrate compounds ranges from 40 to 45 per cent.

There is a factory at Portland, which has been in successful operation for several years, which supplies linseed oil meal of high quality—the Portland Linseed Oil Works.

Running The Hand Separator.

Those who use the hand separators should take a few lessons from the hurdy-gurdy or hand organ men, to learn to keep a rotary motion and keep up the speed until the end. Many will start off rapidly, but soon tire and go more slowly. Others can put out their strength when pushing forward and downward, but fail when they are pulling the handle toward them or lifting up. If one has a dozen or more cows we think it will pay to use the gasoline engine. Although we have not tried them, what we have read gives us a high opinion of them. No trouble to start or stop them any more than to light a match or blow one out. No waiting to get up steam, and it is said that the later styles will give regular speed that is not easily to be obtained by hand power or by tread power.—Massachusetts Plowman.

There are different kinds of success. There is the success that brings with it the seared soul—the success which is achieved by wolfish greed and vulpine cunning—the success which makes honest men uneasy or indignant in its presence. Then there is the other kind of success—the success which comes as the reward of keen insight, of sagacity, of resolution, of address, combined with unflinching rectitude of behavior, public and private.—Theodore Roosevelt.

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