as a feed depends upon the amount of dry matter contained and the degree to which the air is excluded from the silo. In this respect moisture is very important, since it is necessary, even when the walls are tight and when the silage is tramped thoroughly, to have a sufficient amount of moisture present to fill up the small spaces so as to admit the minimum amount of air. Failure to exclude the air is the principle cause of moldy silage since air must be present before fungi can develop. After six years' investigation at the Connecticut Experiment Station it was concluded that silage fermentation similar to the fermentation that occurs in milk. Silage is really pickled corn, and it will keep as long as the bacteria which destroy the acids are kept from it. Molds are acid-destroying organisms, and when these are able to gain entrance to the silage they will destroy the acids of the silage, and it will spoil and decay. Molds require air, however, and thus the dairyman is provided with a method of attack against their presence. The fact that acids act as a preservative for silage is also the chief reason why there should be plenty of moisture incorporated in the silage. Moisture is necessary to proper fermentation in the silo, and if the corn is not

ensiled until it has matured too much, water will have

to be added if there is to be sufficient moisture to en-

courage fermentation. As a matter of fact there should

be about 70 per cent. of moisture in silage to guarantee

the best quality. Less water is likely to result in the development of molds as well as a less palatable feed,

while much more moisture will produce a silage high

in acidity. So far as we know there is nothing to the

contention that the juice from silage will destroy the

walls of a silo due to the acid in it, but it is a good plan,

however, to wash the inner walls of the silo every few

From what has already been said regarding molds and moisture it may readily be gathered that the value

of silage as a feed depends to quite a degree upon the amount of water contained in it, and upon the care with which it is preserved from the air. The dry

matter of silage, of course, contains all the nutrients and experiments have shown that ensiling the stalks

alone gives a silage which weighs less per cubic foot

and is less valuable as a feed by a very considerable

amount. Thus a measured bushel of silage made from

the stalks alone is not much more than half as valuable

as the same quantity of silage made from well-eared corn,

where the ears are ensiled also. By weight, a bushel of silage made from the stalks alone is 63 per cent. as valuable. In addition to this fact the digestibility of

As to the money value of silage as a feed, opinions will differ, but it will be generally conceded that silage

to produce on the farm. Some follow the rule in valuing

silage that it is 40 per cent. as valuable as timothy hay

We take it that this rule may or may not hold good,

depending upon the character of the season and the

purpose for which the timothy hay is used, because the

latter as a feed for milk production is not to be recom-

mended at any time. It was proven at the Indiana

Experiment Station that for feeding steers over an eight-

year period silage was worth \$11.30 per ton when corn was worth \$1.50 per bushel, and that when corn sells

for \$1.25 per bushel silage is worth \$10.21 per ton.

These figures have reference to the feeding value of

silage as compared with the market prices of grains,

but in most cases the cost of silage in the silo is not

so high. Last year the Dominion Experimental Farms

stated that the cost of sitage in the silo was about \$3

per ton, but we doubt very much whether many farmers

were able to produce it at that figure. The probability

is that the average cost was much closer to \$5, and even

higher in many cases. So far this season corn has not

had the best chance to grow on account of the cool

weather, and if the yield is down the cost per ton of

silage from this crop will be proportionately higher.

Hence the necessity of paying extra attention to the

matter of proper maturity at cutting time and good preservation in the silo. The proper time for cutting is when the corn shows the first signs of ripening. The kernels will then be in the firm dough stage, or just

about at the stage, when it will be possible to shell them off the ears. This will be just about the time

and early August the cows must have a supplementary

the grain probably exceeds that of the stalks.

years with a creamy cement.

TABLE II.

Diameter in Feet	Approx. Weight of Layer, 2 ins. Deep to be Fed Daily					
	Winter	Summer	Number of Stock Required at			
			40 lbs. each	30 lbs. each	20 lbs. each	15 lbs. each
10 11	263	525 633	13 16	17 21	26 32	35 42
12 13	378	755 885	19 22	25 29	37 44	50 59
14 15	515	1,030 1,178	25 29	34 39	51 59	69 79
16 17	670	1,340 1,513	33 38	44 50	67 75	89 101
18 20	850 1,050	1,700 2,100	42	56 .	84	112

Good Cheese Sale for United Dairymen.

EDITOR "THE FARMER'S ADVOCATE":

We held our 10th sale on Friday, Aug. 6, and taking all the circumstances into consideration we consider it the most successful of the series. The grave situation in Europe, the continued fall in foreign exchange, and the fact that the export market for several days was practically at a standstill, all combined to disquiet the cheese trade, and on Friday morning several of the Montreal exporting firms endeavored to arrange for a general agreement that no cheese would be purchased outright on either Friday or Saturday. However, this arrange ment was not effected, but it was understood that the prices would be kept at the lowest possible figure. At Gould's Cold Storage, 7,000 boxes, mostly from Ottawa Valley points, were sold on Friday at 23½ cents for colored, and 23 cents for white. The cheese boarded at Brockville on Thursday had not been settled for, but had been shipped to Montreal subject to prices being arranged later. On Friday morning, however, the situation looked better to the writer, and as I knew that some cheese was required for prompt shipment, I decided to hold a sale. The prices we obtained were extremely good, and were a cause of annoyance to several of the large firms here. When the prices became known, several of the salesmen who had sold at Gould's went after the buyers and got another fraction of a cent out of them. The prices we made undoubtedly set the pace for Saturday's boards, but Cornwall got only 25 3-16 for colored against 25 13-16 for our No. 1 colored, and 25 % for our specials. Prices on the country boards showed a wide fluctuation, white cheese fetching 23 cents at Campbellford and Stirling on Thursday, and 25% at Belleville on Saturday. Colored cheese brought 231/4 at Stirling, 241/2 at Iroquois, and 2534 at Belleville, while 24 cents was the best bid at Perth, and 24½ the best bid at Napanee.

The prices at our sale on Friday were as follows: 160 special colored at 257/8; 1,035 No. 1 colored at 25 13-16; 117 No. 2 colored at 24 13-16; 35 special white at 24 15-16; 520 No. 1\white at 24 1/8; 102 No. 2 white

At Gould's on Tuesday 7,000 boxes colored and white sold at 241/2 cents delivered Montreal, and on Friday the same quantity at 231/2 cents for colored, and 23 cheese weighing. Unfortunately last week he was out of town, and it was only possible for me to have one lot re-weighed. I have written the Dairy Commissioner, Ottawa, pointing out that we need the inspector particularly on Thursday and Friday of each week, and asking him to arrange so that the inspector will be here on these days. I am bound to say that all the weights that have been re-tested have shown that the weighing by John McLeod, the public weigher, has been accurate think it desirable, however, to have all lots re-weighed that show a loss of a pound a box and over, and hope to have this done in future.

Notwithstanding the premium obtained on colored cheese last week, I am still firmly of the opinion that too large a quantity of colored is now being made, and that before long white cheese will bring the higher price. It is difficult to say just when this change will come about, and I hesitate to take the responsibility of advising factories to change from colored to white immediately, because the former may bring a higher price this week and possibly next. Last week we had one new factory from Leeds County, and we are advised of several new factories that will ship this week

W. W. MOORE. Manager United Dairyman Co-operative Limited.

HORTICULTURE.

Planting Deciduous Trees About the Farm.

Nearly everyone likes to see nice trees. They have many uses on the farm, either to beautify the home surroundings, to set off the roadside, or to provide shade for the live stock in the pasture. It is not much trouble to plant an occasional tree or group of trees where they will be appreciated and helpful in making farm life more appreciated and some way or other a beautiful countryside is nearly always associated with the presence of a sufficient number of trees to relieve the monotony of bare land, roads and fences. Too many of our farm houses lack the natural beauty and the coziness which a few trees wisely placed will bring to them and it is unfortunate that more trees are not to be found in some sections. Nice shade or ornamental trees not only add to the contentment of those who can

enjoy them, but they add materially to the appearance and selling value of any farm that possesses them and for this reason, if for no other, they should be planted out in reasonable numbers on every

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There are many deciduous trees native to Eastern Canada that are much more attractive than foreign varieties. The latter are too frequently planted to the ties especially when these are fairly easily obtained. Trees may be planted in the spring or fall and if the latter is decided upon the planting may be done at any time from August to October. Fall planting is not desirable, however,

unless the district is suitable and weather conditions favorable. For all planting the season should be long and the climate such as will give the trees a fair chance to take hold of the ground to some extent before the severe winter sets in. If the soil is poor it should be well prepared and a good quantity of loamy soil or well rotted manure worked in. The hole into which the tree is to be set should be dug deep enough and large enough to accommodate the roots of the tree without too much crowding and it is advisable to place the larger roots toward the prevailing winds to assist in anchoring the tree. In most respects one should plant shade trees after the same manner as one would plant fruit trees and they should be set somewhat deeper than they were before they were dug up. If they are nursery trees that have been budded or grafted, the union of stock and scion should also be buried. After the tree is set



Sweet Corn is One of the Most Popular Crops the Market Gardener Can Produce.

Soiling crops are sometimes grown, but on the average farm these are much more expensive to grow than

silage, and many farms now have a second silo to provide this supplementary summer feed. There is little doubt that summer silage is profitable and the coming years will see much more of it in use.

TABLE I. Daily Feed for Various Kinds of Stock.

Kinds of Stock		Pounds Silage Per Day
Colts	500	5
Stock horses	1,200	12
Work horses	1,300	10
Calves	500	12
Stock cattle	1,000	20-30
Beef cows	1,300	30
Dairy cows	1,000	30-40
Dairy cows on short	-,	
pasture	1,000	15
Fattening cattle	1,200	2.5
Stock sheep	-	2.3
Fattening sheep		7 - 3

cents for white, delivered Montreal. Prices on country boards were: Peterboro colored, 25/4; Campbellford, 95 boxes colored at 25 9-16; 654 white at 23; Brockville 3,000 offered, no bids; Stirling, 23¼ for colored, 23 for white; Vankleek Hill, 25 1-16 colored, 24 11-16 for white; Iroquois 241/2 for colored; Perth, the best bid for colored and white was 24, with no sales; Napanee 24½ bid for colored, with no sales (cheese sold on curb we understand at 24¾). Picton, 25 9-16 for colored; Winchester district, 24¾ for colored; Belleville colored, 2534, white, 253/8; London best bid 241/2 with no sales; Cornwall, 25 3-16 for colored.

The drop in Sterling exchange last week amounted

to 8 cents on the pound.

We have been watching the weighing of our cheese very closely, and I have had a large number of lots re-weighed by the Dominion Government inspector of