three to four tons per acre. The grain crop will be ready to harvest in a few

corn fodder, grain, hay, milk and cheese moved from the factories have purk. 70 old milk cows pasturing on gone into cold storage on this side of 35 acres, giving 1,500 to 1,800 pounds the water.

CANADIAN DAIRY NOTES.

Ed. Hoard's Dairyman: - The cheese markets here have been almost at a stand-still during the last few weeks. When the first half of June make was put upon the market from 83 to 85c was bid for it. The factory men were, however, loth to sell at those figures, and decided to hold for a week or two, thinking perhaps that the severe drouth which was becoming general all over the country would considerably lessen the production and thereby cause the price to go still higher. But this prediction was not fulfilled. Towards the end of June the market took another drop, leaving the factory men with nearly all the June make unsold and the ruling price for fine goods only 8 cents. All June make is now being sold at this figure with a few special lots selling as high as 81 cents.

The market this week is some hat brighter and firmer. Western Onta-rion factorymen are now willing to let their Junes go at from 8 to 81c, consequently it is expected that a large share of the goods on hand will be sold this week. Reports from the Eastern Ontario markets show that factorymen are selling for from 77 to 8 cents. Some of the very fine factories in Western Ontario are ho.ding their Junes for 84c. They may perhaps get it, as their factory buildings are well equipped for holding cheese for a few weeks. Besides the nights during the dry period have been comparatively cool, making the holding of cheese in the factories less dangerous. The principle of holding cheese in the factories for a very long time is not a good one. Unless there are good prospects of a considerable rise in prices, Already two shipments of butter factorymen will fare better to seil their have been made under this new system,

exports. The total exports of cheese win, the butter industry will receive from Montreal and New York from additional stimulus and will be placed the beginning of the season to close of upon a basis that should ensure its suc-last week (July 13) show the very coss in the future. large decrease of 274,965 boxes.

reconcile this fact with the continued ander the able management of Prof. low prices. It would seem as if the J. W. Robertson, the Dairy Commis dry weather were having a serious sioner. Several steamships will be effect upon the output, and that these fitted up with insulated and refrigers low prices would not continue much the chambers for the carriage of butter longer. It will take sometime, how-from the cold storage warehouse in ever, before the real cause of low Montreal. These steamers will run to prices will be much effected by the Liverpool, Bristol, and Glasgow, and a shortage, if this is one. Until the weekly or fortnightly service will be shortage, if this is one. Until the weekly or fortnightly service will be British dealer has unloaded his old provided. Refrigerator cars will be

It must, however, be born in mind that, though there has been a considerable shrinkage in the make during As a matter to induce you to come, June as compared with last year, yet I think I can show you some things the very large decrease in the export, that have never been attained in farm especially from Canada is due largely practice, i. v., to produce an estimated to the fact that the larger number of orop value during this summer of factories have been holding their over \$5,000, on 120 acres of land, in goods and that a large share of the

per day, over 100 tons of hay from an acres, a prospect of 700 to 800 bushels of grain from 18 acres, and 700 tons of corn from 30 acres, and 70 pigs pasturing on 2½ acres.

Yours truly,

Yours truly,

Yours truly,

Yours truly,

During the past year or two Canadian dairymon have been watching with considerable anxiety our butter market and the development of that branch of dairying. Prices have been at a very low ebb for several months past, rendering it somewhat difficult for the creamerymen to return a profitable dividend to the farmer for his

The butter market just now, how-ever, seems to have a much brighter outlook than it has had for sometime. Though the prices have not avanced very much, a better feeling prevails and a good steady demand for fine goods continues. Prices this week range from 15 to 16c for fine creamery, with a few sales at 17c, and 13 to 15c for tine dairy.

The cold storage system of trans-portation, recently inaugurated by the Dominion Government, has probably had a stimulating effect upon the butter market here. By this system our oreamery butter will be sent across workly or fortnightly in a fresh condition. If the quality is good and the shipments are regular and can be depended upon to arrive in good condition there should not be very much difficulty in establishing a market and in creating a demand for Canadian butter. The creamerymen will have to be satisfied for awhile with less than the highest quotations for batter till these goods are known and have acquired the reputation for excellence that Canadian cheese has. When this is accomplished and a regular system of transportation carried out, there does not seem to be any adequate reason why in a few years our export butter trade should not be equal in importance to our cheese trade.

cheese when ready for shipping.

One peculiarity of the cheese trade infested in the result. If they prove this year is the large decrease in the successful, and it is to be hoped they

rgo decrease of 274,965 boxes. The arrangements for this system of it may appear somewhat difficult to cold storage transportation have been British dealer has unloaded his old provided. Refrigerator cars will be stock, he will not be very anxious run on the main railway lines leading about securing new goods. It will be to Montreal, so as to cover the print to his own interest to keep the price cipal batter districts of Quebic and of the latter as low as possible till the Ontario. This service will be weekly, old stock is worked off. This he seems and arranged so that small lots of determined to do, and to keep up for a butter can be picked up at all the while longer, as the reports of old stations and at connecting points with stock still on hand in many places would indicate.

the butter during the interval between the arrival of the train and the departure of the vessel.

The rates for cold storage for but ter intended for shipment by the refri gerator steamships are somewhat lower than the usual charges for cold storage The rates via rail and steamship will be the same as those for butter and cheese shipped in the usual way for the current week. The Government bears the expense of the cold storage facilities on board steamship, and also the expenses in connection with the refeigerator car service.

It is recommended that no butter be shipped from the creamery until 48 hours after it is packed in the boxes or tubs. Square butter boxes holding 56 pounds not each are recommended. Those should be made of spruce wood a or 1 inch thick and 12 inches deep, 11 inches wide and 12 inches long, inside measurement, and should be lined inside with parchment paper.

It must be seen from this necessa rily condensed description that ample provision has been provided for the transportation of our batter in good condition. The success of the venture will now depend very largely upon the manufacturer and shipper.

The Quebec Government will give a bonus of 1 cent per lb. as a further inducemment to the creamerymen of that province, on all butter sent forward for shipment to Great Britain, on condition that the creamery sends a stipulated quantity each week.

The long continued drouth has been broken by a number of good rains recently and dairymen are beginning to take fresh courage. In many parts of Western Untario the effects of the dry weather have been very serious. Many farmers complain of great scarcity of feed, both as regards pasture for the cows, and the prospects for next winter. One farmer states that next winter. One farmer states that he will take \$10 apieco for his 36 cows next fall. Reports from many localities indicate that cows will have to be sa crificed at low figures because of a scarcity of winter fodder. This will be the case especially in the sections where farmers depend upon the hay crop for the winter's fodder. The rains have not reached us soon enough to help this crop, which is so light in mary localities as to be hardly worth the cutting.

As a rule the corn crop in Western Ontario looks very well. The dairy man with a silo and a large field of corn growing to fill it, need not feel anxious about the winter. He can be quite independent of the hay crop and while his neighbo a without siles are com pelled to dispose of their cows at a sacrifice, he has ample food for his stock and perhaps a surplus that will enable him to purchase a few of his

neighbors cheap cows.

This extreme drouth will not be without its bright side, if it has the effect of inducing many dairymen to build siles who have not deno so before. No dairyman should be without a silo. It is the most economical method of preserving food for winter feeding, and whether the hay crop be a failure or not is the cheapest means of keeping cows during the winter. By means of the sile cows can be kept milking dur-ing the winter. By means of the sile cows can be kept milking during the winter at a profit and will be in as good condition for the summer's work as if they were wintered on hay, and not giving milk.

J. W. WHEATON.

London, Ont.

Mr. Joseph E. Gould, of Ontario, writes

Pasture and hav are almost a failure. I sowed three-fourths of an acre peas and oats for soiling and one acre of corn for the same purpose. I fel 13 cows on the peas and cats twice a day for twenty four days before it was done, and then commenced on the corn, and we have now been feeding twenty one days and have corn enough to feed a month yet, all they can eat. I have 13 acres for the silo just coming into tassel, and a silo that will hold 150 tons.

PURE CULTURES OR LACTIC FER-MENT IN CHEESE MAKING.

ED. HOARD'S DAIRYMAN. - Since I find that as yet little is known of what may be accomplished with the use of the "Pure Culture Starter," and also seeing that inquiries are being made in regard to it through the columns of your most valuable paper, I will give to those who are desirous of giving it a thorough trial, a brief explanation in regard to the preparation and use, as well as of the cost of the starter.

It can be procured from Creamery Package M'f'g Co., Chicago, Ill., and also from Chr. Hansen's Laboratory, Little Falls, N. Y.

It is usually bought in bottles which contain it in the form of a powder and the directions go along with each bottle, the regular price of which is \$2. This may at first thought appear expensive, but it is in reality, very cheap, provided that it is kept at a distance from any sources of contamination, for this starter continually reproduces or repeats itself.

Now, after having repeated the starter according to directions, it is expedient that a suitable apparatus be at hand with which to pasteurize the milk—that is, have an apparatus with which you can heat 100 pounds of milk to 175 degrees Fahr, or, it may be heated to the boiling point without perceptibly injuring it. After having stood at that temperature for about an hour-or, if the milk be heated to the booling point, several minutes would be sufficient—cool quickly to 86 de grees Fahr., and add your previously prepared starter of which five to eight pounds will suffice.

Introduce this etarter into the milk which arrives first at the factory, thereby inoculating it with the desired species of bacteria contained in the starter. It will thus be propagated in the whole of the milk immediately after being received into the vat.

In warm weather when the starter is added as just explained, it is advisable not to heat the milk until it has all arrived at the factory, thus avoid-

in, over-ripeness of the milk.
Now, from the starter which has just been aided to the milk, take, say five to eight pounds for inoculating the next batch of pasteurized milk which is to serve as a starter the following day.

In this manner we could use this starter for an indefinite length of time, were it not for contamination, which will finally introduce some undesirable bacteria into the milk, and will call for a newly prepared starter That is, another bottle of lactic ferment must be prepared and used.

Now, Fellow cheese-makers, I can

not say too much in praise of the "Pure Culture Starter," and I am not giving it any more than its just decorts when I say that I have not had one pin hole or gassy curd since I began the use of it. This means consi-