gerator accommodation on the steamship lines from Canada The Man chester and Glasgow markets want a rather pale colored butter. The London and Glasgow markets are running on square packages, after the New Zealand or Australian style We shall have some of our winter made creamory butter from the Government experimental dairy stations packed in square pack the best quality of suitable paper from one of the large paper manufacturing from this establishment, firms in London. All who are interested general make of cheese in may obtain small sample quantities at cost, as room as it arrives at Ottawa. I looked into the trade in tinned butters for export to hot climates, and visited where neat and suitable boxes for that purpose are made and finished in excellent style. I think Canadians might now get possession of the West India trade in butter, and through the facilities of the C. P. Railway and Pacific steamships, we should get the major share of the trade in butter, bacon and cheese with Hong Kong, China and Japan. I had a conference in London on that subject with a gentleman who had spent many years in business in that trade. The outlook for our products in that direction is hopeful. I arranged for a supply of the tin boxes and was able to secure an offer of the particular machines which are used in closing the boxes, so that they shall be perfectly AIR-TIGHT AFTER THEY ARE FILLED.

"Many complaints were made to me of the poor quality of the boxes in which cheese has been sent, partieu larly from the province of Quebec The cheese which was sent over from the Experimental Dairy Station at Perth in Lanark County, Ontario, had less than six per cent, of the boxes broken to any extent, when they reached the London and Liverpool warehouses Good sound boxes give an additional value to the cheese of from 1s to 2s per cwt, and the extra cost of those strong most important boxes was only 3 cents each. I hope the to the public. cheese makers, patrons, salesmen and buyers together, will insist upon the use of only strong, close-fitting boxes. quite dry before they are put on the cheeses.
"I found Canadian cheese still grow-

ing in favor with wholesale dealers and retailers. In the Manchester District the fat cheeses from Quebec have not met with particular favor. The irre-gularity in shape and size, the unwork manlike finish, or want of finish, and the wretchedly bad boxes were the worst features of some cheese from that Province. These defects could all be remedied in one season by a little more care and taste. The French race have the reputation of putting up shall keep our reade goods of all sorts in the daintiest and the results obtained: most attractive form. The French speaking dairymon of Quebec should The French try to maintain the good name of their people in that regard. The fact that it would pay them handsomely to do so, TO THE DIRECTOR OF THE

should not be a deterrent."
"I saw (with Mr. John Dyke in Liverpool) one shipment of Canadian furkeys in particularly excellent condition. The birds had been fasted before they were killed; feathers were left on; they came out of the cases. I should be greatly obliged if you looking bright and fresh, and with a would repeat as soon as possible the aweet clean odour."

## The Air-Churn

found the new churn work beautifully, strict account must be kept of the he had never been able to extract yield of milk and butter by each of the milk operated on! Monsieur Na hirst lot should receive three quarts of sent time and two years hence, would guot is, I believe, making experi-ments on this wonderfully clever in vention of an Italian man of science. and will no doubt discover in what part of the process loss is likely to oc-cur when the implement is in the dairy stations packed in square pack ages this winter. All the buyers prefer the butter packages to be lined with grease-proof paper, which protects the butter room asset with the wood or butter room asset with the wood or tin, and gives it a bright, sparkling look when the packages are removed to affairs in the St. Hyacinthe Dairy-look when the packages are removed to any packing hearing their appro-I purchased a considerable quantity of in any machine bearing their approval with it. We expect great things Already the general make of cheese in the province has been nothing less than marvel-lously improved by the judicious enterpriso of the late secretary, M. J. de L. a very useful experiment; first, for Taché, and his energetic assistants the instruction of your pupils, and MM. Côté, Archambault, &c., and we also for the information of the public trust that, before long the general make. I trust you will be good chough to of butter will beas much amended as undertake it, and to give me the results the cheese has been.

Our people must not lose sight of the fact that the exportation of butter from the farm carries with it not manurial loss of matter; whereas, choese walks off with a vast quantity of the most costly fertilisers the land secretes in her bosom: nitrogen and the phosphates. In short, the export of cheese, Assistant-Commissioner of r se, impoverishes land, the export of butter leaves land just as it found it. Take this as an example: the export of cheese from Cheshire nearly ruined the farmers of that county; Eppand the Vale of Aylesbury have Epping ported butter for centuries and the grass continues to flourish as well as or, better than, over

We do not care to repeat the same thing more frequently than necessary but, as the great Roman bothered all his hearers with his reiterated assertion that "Carthago must be destroyed," so our constant cry should be " More Syndicates." The leaders of public opinion who do not impress this domand on all who listen to them, fail in their duty as regards one of the most important subjects ever submitted; the cows that have calved in April

## Beans and Linseed.

Experiments in the Rational feeding of Milch-cows

As will be seen by the following letters, the Rev. Ladies of the Ursu line convent at Roberval have given their cows in milk since November. a pint of dwarf-beans and a half-pound of linseed boiled as it for linseed tea. satisfactory. This experiment is to And more; the manure is consider the repeated in the agricultural schools enriched by the food provided at Sie-Anno and l'Assomption. We observable that by giving a trivial stream with first the shall keep our readers informed as to quantity of very rich food, the con

> Department of Agriculture and Colonisation.

Quebec, Nov. 15th, 1892.

SCHOOL OF AGRICULTURE.

Dear Sir.

I beg to draw your attention to the interesting news Mr. Barnard sends me in the annexed letter.

experiment made at Roberval. To this end, it seems to me that a dozen cows, say, should be selected, giving each, as nearly as can be managed, the same At the Ste Thérèse meeting of the weight of milk, and divided into two

beans made into soup, and three pounds of linseed previously well boiled—this to be mixed with their ordinary ration. The other lot is to be fed as before, and that for a fortnight, years of the present date You should show exactly the results this on my extent of land? obtained, in butter and milk, from each lot; then, you should feed in the same manner, but the lots should be reversed, that is, the lot that received the soup for a fortnight, should then eceive the ordinary ration, vice versa

It would also be eary useful to as-certain, as carefully as possible, the species and entire weight of the ordinary rations consumed by each of the lots experimented upon

This, Mr. Director, seems to me to be very useful experiment; first, for as soon as possible.

J. A. GIGAULT, Assistant Commissioner.

(From the French.)

Quobec, Nev. 15th, 1892.

TO MR. J. A. GIGAULT, Agriculture, etc., Quebec,

Your devotion to the improvement of agriculture encourages me to relate to you the results obtained, after a simple piece of advise, given in a hurry when I was at Roberval The Rev. Ladies of the Ursuline convent. as you already know, never lose any chance of gaining information about profitable agriculture. I advised them to add to the daily winter ration of their cows a pint of dwarf-beans and a half-pound of boiled lin-eed for each head. The beans to be made into soup with water, or, if there is any to spare with skim-milk.

Now, in the middle of November any farmer will agree with this state ment. But the six cows at Roberval, two of which had calved ten months and more previously, and two others were young heifers with their first calf, increased their yield of milk by about 10 %. But, and this is still more encouraging, the milk is 10 %. richer than it was in the fall,

Here, then, is a positive return of 20% additional yield, obtained in winter quarters, instead of the decrease that farmers generally find in The result was immediate and most almost every part of the province satisfactory. This experiment is to And more; the manure is considerably We observable that by giving a trifling sumption of coarse todder itself is very much diminished. Numerous, and very careful experiments have proved that this economy in coarse fodder is of such importance that we are able to feed three cows with the same quantity that two would have consumed before the addition of food that produces rich milk in abundance

I thought you would like to know these excellent results obtained in the extreme north of the province.

Your obedient servant. ED. A. BARNARD. (From the French.)

20 Cows and 100 sheep -I have a farm in the valley of Lake St. John,

profitable system of farming and aiming at the putting into a good arable more than I of the butter fat from the two lots. After the first week, the condition of 125 acresbetween the preyou be good enough to answer the well following questions in your paper:

In the first place, I wish to keep 20 good cows and 100 owes within two Can I do

W. S. Drummondville.

Reply.—Yes, if you feed thom in accordance with the known principles of the art. See my letter on the subject of Lake St John, D.

## Agriculture.

The Day of an English Tenant-Farmer.

Many years age, in 1852, not feeling quite satisfied with the knowledge of sheep farming we possessed, it struck us that, as we had a whole summer of leisure before us, the best thing we could do to perfect our acquaintance with that branch of agriculture was to pass six months in the house of one of the most noted breeders of Southdown sheep in the south of England, always provided we could persuade such an one to endure the invasion of his family by a perfect stranger.

A near relation having at various times bought rams from Mr William Rigden, of Hove, near Brighton, Sussex, he was persuaded to ask the latter to meet us at dinner one day in the month of February. A very pleasant evening was spont, we found the visitor a very agiceable, intelligent man, and, after a good deal of conversation on farming matters, Mr Rigden listened attentively to our proposal, and finally it was agreed that the following week his house should be open to us for six months.

A description of the farm and stock of this thriving agriculturist will be found at p 153 of the vol 14 of the first serie of this periodical, so our readers shall be spared a repetition of the story, if they will kindly rememhardly ever increase their flow of milk ber that the farm consisted of 6:0 acres, the part next the sea being of tine quality, the middle fair soil, and the upper part a loose soil not very long broken up out of the chalk-downs. No pasture, the whole being under the plough, and the 20 milch cows (dairyhort-horns) with the bull, then, a pure "Bates shorthorn" Notary, from the herd of Jonas Webb, were all soiled throughout the year. The milk was sent into Brighton, twice a day, at one shilling a gallon-10 lbs. — wholesale price. The cows averaged 10 quarts a days for 11 months in the year = 800 gallons each, worth \$200, or, for the whole heid, \$4,000. That The sales of paid : no doubt about it. wheat averaged about 1,000 quarters -8,000 bushels, which, in 1853,54 tetched 10s, a bushel - \$20,000; barley about 1,106 quarters at 40s. = \$12,000; and the flock, what with the letting of cams, the sales of ram-lambs, and of full-mouthed ewes, brought in about \$4,000. Besides these items, there were sales of green meat, mangels, potatoes, &c., to an unknown amount. Probably not less than \$45,000 were received that year from the disposal of farm-crops, and this would give a gross sum of \$66.00 an acre over the whole farm. The capital invested in stock, implements, payments to outgoing tenant, &c., was £16 an acro= \$80.40; rent, tithes, taxes, &c., =\$2,-200 = \$11,000 a year, labout cost about At the Ste Therèse meeting of the weight of milk, and divided into two near a station on the railroad. I in- 42s, an acre, say, \$7,000. Large out tend to live there in the spring. Being goings, but large incomings too.

The payments to outgoing tenants