

## THE/ FARMER'S ADVOCATE.

in 1894?"

enquiries sent out some time ago to crop corre-spondents, and the replies elicited we give below.

50 state that dairying gave the most satisfactory

results in their respective localities last year, though

a number of other successful specialties are also

mentioned. In most cases hog-raising is cited an

Ontario Co, Ont.-G. E. Mowbray, Oshawa-Dairying and hog-raising ; but our farmers are slow

in going into dairying, as they have been accustomed

a dairy farm, and my neighbors are turning their attention in that direction. This section is well

thing that has paid the last season. Clover seed-Alsike and Red have done fairly well.

M. Clipsham, Sparrow Lake-Dairying. I keep

Elmer Lick, Oshawa-Dairying is about the only

S. L. Brown, Whitby-Dairying or milk produc-

John Bartlett, Oshawa-Dairying, and the grow

Bruce.-Jas. B. Muir, North Bruce-Dairying

ing of Alsike and Red clover for seed. J. R. Randall, Newmarket—Dairying has been

and hog-raising, when properly attended to. Jas. Tolton, Walkerton—Dairying; but I think

the co-operative cheese factory the best. Those who

had their cattle ready and sold at the right time

who have made production of milk their main line

have been the most successful this season.

pretty well. Summer grazing for British

T. Chisholm, Dunkeld–Farmers in this locality

Wellington.-Jas. Bowman, Guelph-Oats and hay fairly paying crops. Those who have been dairying to some extent, I think, are satisfied with

York.-John Bell, Amber-Fall wheat was a very

good crop, but the price was nothing. There was no spring crop up to the average. If there was one

thing better than another, in a financial view, it

was hay. Dairying and hog-raising would certainly

have been the best source of profit, but there was

very little dairying done here. People are now

arousing to the necessity of it, and we have just erected a creamery on an extensive scale at Union-ville, and we hope that by another year we will be

able to give you a flourishing account of that

ing is beginning to replace all other branches of

farming, as it seems to give the best results. Pork

was looked forward to for a time, but this winter prices have thrown a damper on it, and the pork-

packer is always wanting a pig that does not exist.

butter; and in connection with this, feeding of

Dundas.-Miss Annie Kyle, North Winchester-

O.rford -Geo. Rice, Currie's-Dairying and feed-

swine ; also, rearing of well-bred sheep.

Dairying is the most satisfactory.

John Jackson, Abingdon-Dairving, cheese and

Wentworth.-Jas. McCormick, Rockton-Dairy-

to feeding cattle and breeding heavy horses.

tion gave most satisfactory returns in 1894

adjunct of successful dairying :-

adapted to that branch.

most satisfactory.

did

market

the results.

industry.

The above was included in our list of special

ut of about 60 reporting, it is worthy of note that

## What Branch of Farming Gave Most Satisfactory Results in Your Locality

#### Our First Page Portrait.

EDITORIAL.

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A few miles south of Stratford, Ont., is situated the farm of Mr. Geo. Green, the well-known breeder of Berkshires, and those desirous of knowing what constitutes an "Ideal Berkshire," would do well to visit the pens at Fairview, where splendid typical specimens of the breed are to be seen.

Golden Link (2884), the sow whose portrait adorns our first page (bred and owned by Mr. Green), is a very handsome animal, with all the typical points of the breed. She won first place at the Quebec Provincial Exhibition at Montreal in 1893, in the six months class; also first at the Industrial. Toronto. and the Western, London, in a very strong class the same season. She is a full sister to Black Prince 5th (2793), one of the stock boars in the herd. This boar won first in the yearling class and headed the sweepstakes herd at the Ottawa Exhibition in 1894, the only time he was exhibited last season. The ancestors of these two were winners as far back as Last Link 4th, an imported sow of great length and depth, bred by the late A. Stewart, Gloucester, Eng.

Royal Lad (3044) is another stock boar used very successfully on the herd; an animal of great length, with well-sprung ribs; broad, level back: thick hams, well-fleshed down; and standing squarely on strong, flinty legs. He was winner of first place at the Central Exhibition, Ottawa, and second at the Industrial, Toronto, in 1894.

A grand sow in the herd is Oxford Lady (2125). This sow won 2nd at Toronto, and 1st at London and Ottawa. She was sired by the imported boar Gladstone, dam Lady Oxford.

Blue Bell (3533), farrowed March 2nd, 1894, is a grand young sow, having won a first place for herself at London and Ottawa in 1894. Two boars of the same litter won 1st and 2nd at London: one of them also winning 1st at Toronto, and was sold at a good round figure to an American of York State. This litter was sired by Queen's Own (2613), dam Mountain Bell (1885), a grand breeding sow in the herd that has raised a large number of prize winners, and is due to farrow March 16th.

Charmer (3579) is a sow of good length and depth and very smooth. This sow stood first at the Provincial Fat Stock Show held in Guelph, December, 1894.

Another fine imported sow is Shapely (1514), very large, with good level back, /great length and very deep bodied ; she has raised some grand pigs, and is in farrow again. She was bred by S. W. Andrews, Lodber, Blandford, Eng.

Fairview Berkshires are descended from the best English strains, and have had a remarkably good show-ring record, having won 171 prizes, seven diplomas, three medals, and the Prince of Wales' prize of \$50.00, at the leading exhibitions in the ominion since 1888, their last year's winnings being 46 prizes, including two medals and two sweepstakes at the leading fairs; and judging from the general excellency of the herd, they should make their mark at the exhibitions of 1895.

to be seen whether the butter factories will take the place of the cheese factories or not.

MARCH 1, 1895

Jas. Martin, Renfrew-Dairying was the best paying branch of farming last year around here; but milk in the factory season has been made into cheese up to this fall, but we are changing to butter. We had built last summer in our town and are now building separating stations along the lines of railway through the country, and have now in operation the largest and best equipped creamery in the Dominion.

Brant.-A. Telfer & Sons, Paris-In summing up all branches of farming, we think dairying has been as profitable as any.

Lambton.-Ellis F. Augustine, Aughrim-Hograising and small fruit growing.

Huron.-A. P. Ketchem, Brucefield-Although we have no cheese factories in this immediate neighborhood, yet there are several around here, and I believe their patrons have been the most successful. Not only last year, but for several years, cattle feeding has been the principal industry in this neighborhood ; but the cattle men are wear-

ing very long faces this winter. W. W. Fisher, Benmiller—The branch of farming that gave the most satisfactory returns in this locality for 1894: I think I am safe in saying dairying, for one. Hogs sold well about the 1st of

September. J. N. Kernighan, Benmiller—Feeding and raising hogs in the beginning of the year. Private dairying towards the fall gave the most satisfactory returns.

Thos. McMillan, Seaforth-Dairying and beefing are the two main branches followed in this vicinity. and there is no question that if judicious care and attention is bestowed dairying is the most profit-able. Sheep breeding has also been followed to a considerable degree and with good returns until the past two years, during which time prices have ranged rather low.

Waterloo.-E. B Kolb, Berlin-Fall wheat gave most satisfactory returns in our neighborhood; owing to the drought spring crops were very light.

Leeds.—M. W. Steacy, Warburton—I might say that this section chiefly follows a general line of farming, makes a specialty of no particular branch, but, I think, gradually drifting into cheesemaking.

Prince Edward Co.-W. C. Huff, Mountain View-The most profitable branch of farming stands between grain vs. dairying and pig combination. In some places grain superseded, in others the dairy combine; but I favor the latter for two reasons: First, it supplies impoverished land and makes it fertile again; and second, it brings in ready money, and I do not think it is as profitable to send farm products of any raw material as in a finished article.

Middlesex.—A. B. Scott, Vanneck—I think the dairy and fruit gave the best returns last year; but it looks as if the butter business was being overdone.

J. W. Johnston, Sylvan-The best results have been obtained from raising pigs in connection with the dairy trade. R. Gibson, Delaware–Dairying.

C. M. Simmons, Ivan-With me steer feeding on grass for the British market; my sixty head last ear gave \$960 over cost.

Bothwell.-A. J. C. Shaw, Thamesville-Beans, hay and hogs.

Essex.-W. G. Baldwin, Colchester-Dairying

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In New Zealand, in 1892 the first two cheese factories were opened. Last fall there were fiftyfive cheese factories, sixty-two butter factories, and sixty creameries, employing over 300 hands, and using the milk of 57,000 cows. The exports of butter rose from 8,869 cwt. in 1883 to 59,147 cwt. in 1893. and those of cheese from 2,519 cwt. to 46,198 cwt.

The directors of the Winnipeg Industrial have decided on a summer fair, and fixed the dates, as requested by the Manitoba Pure-bred Cattle Breeders' Association, from July 15th to 19th, inclusive. Nine hundred circulars were sent out asking opinions as to time of holding fair, and of the 508 replies received, 302 favored a summer fair. The directors' vote was 9 to 3 for a summer fair. We trust the directors will at once set about making the show of 1895 the best on record.

Prof. M. Nocard, one of the most eminent experts in the world, has examined pieces of the lung of the suspected Canadian animal landed at Antwerp, upon which the Belgium authorities based their embargo against Canadian cattle. He is unable to say that the disease is pleuro-pneumonia; indeed, he throws much doubt upon the assertion that it is. A cable dispatch says: "This report, in connection with the absence of the disease among the recent arrivals of Canadian cattle here, should strengthen the Scottish demand, which the farmers and shipmen are making for the removal of the British embarge."

ing hogs have been the most profitable in 1894; in fact, the only thing that has yielded a profit. The dry season effected the dairyman's profit, but the wise man will provide against the drought next season by sowing more soiling crops

Samuel Hunter, Scotland-Farming did not pay; but cheesemaking upon flat land, and hay, were best

H. Bollert, Cassel-Dairying.

Carleton.—George R. Bradley, Manotick—The branch of farming which has been most remuner-ative for 1894 was dairying; the season was most favorable for pasture, and cheese commanded a good price. Almost all the milk in this vicinity was manufactured into cheese and shipped ; \$8,000 was distributed among farmers in this district from the factories.

Perth.-John Burns, Kirkton-There is no question but that the most profitable branches of farm industry last year were dairving and pork production, both paying fairly well, while the production of cereals for market in most cases did not pay for labor invested.

Glengarry.-E. G. McCallum, Martintown-Dairying is the only branch of farming that pays here.

Jas. H. Esdon, Curry Hill-Dairying undoubtedly gave the best results of any system here in farming in 1891.

Peterborough.-J. Smithson, Graystock-I would say dairying was the most profitable branch of farming.

Peel.-Bobt. Cation, Brampton-I find that growing oats gives me the best returns : others think dairying pays better. Every one has his own notions about that.

Northumberland.-Wm. Stone, Cambellford Dairving and pigs.

John B. Stone, Norham-Cows and hogs, and clover seed.

A. W. Ross, Douglas During the Renfrew. hard year of 1894 the farmers had to depend largely on their cheese money. Cheese market was good, while all other farm products were away down. Cheese industry is increasing. Some farmers realize \$37.00 on an average from their herd. It remains

and hogs have helped us out the best.

Peterborough.-F. Birdsall, Birdsall-Mixed farming. Where a good deal of attention was paid to dairying and hog-raising, they paid the best last year. A creamery is badly needed in this section. We have cheese factories, but they only make cheese from the 1st of May until the 1st of Nov. A great many dry off their cows or make the butter themkeep them milking much longer. There is money to be made by a practical buttermaker, who will start a factory to make butter in the winter and cheese in the summer.

Frontenac.-Richard Moore, Wolfe Island-We have turned our attention to dairying the past two many also the feeding of cattle and hogs. We find it is paying us better, also putting something back on the farm instead of drawing everything out of it, which in a short time would ruin any farm in this or any other country.

Halton.-John Dickin, Milton-Mixed farming with a number of dairy cows so managed as to keep up a good supply of milk throughout the year and supply private customers with butter (Toronto is our market), or send milk to a cheese factory which makes butter in winter.

York. -John Miller, Markham--Dairying and stock-raising. H. Reeve, Toronto-Root growing was the most

remunerative. Those farmers who had a large acreage and a large, well-kept orchard had no reason to complain of their season.

W. D. Monk, South Marsh-Dairying.

Elgin.-Chas. C. Lord, Wallacetown-Mixed farming is the only kind carried on in our district. Hog-raising paid as well, if not better, than any other branch last year. Prescott. D. P. L. Campbell, Vankleek Hill-

Dairying, particularly cheesemaking by factory system.

Brant. R. S. Stevenson, Ancaster-I think on the whole that dairying has proved most satisfactory.

#### FARMER'S ADVOCATE. THE

D. G. Hanmer, Mount Vernon-Mixed farming is pursued, but it is generally conceded that although the price of wheat has ruled low, the yield has been such as to have made it the best paying

crop on the farm. J. E. Richardson, Princeton—Farmers who keep a number of good cows and feed them well, I believe did the best last season.

Shefford, Que.-P. P. Fowler, Dalling-Dairy farming.

Sherbrooke.-W. A. Hale, Sherbrooke-Dairying was the most profitable branch of farming in 1834. Poultry in a small way paid well. Hay is a drug on the market. Market gardening was sadly overdone and depressed

Manna McGinnis, Iberville-Dairying.

Prince Edward Island.-Walter Simpson, Bay View-Stock and dairy farming gave best returns for 1894.

Cumberland, N. S.—C. H. Black, Amherst— Dairy farming is growing in favor and perhaps is now the most profitable branch of farming, though some of us think we can do as well with beef; while those farmers who have a large acreage of marsh land should certainly make something by selling a large proportion of their hay.

Wisconsin, U. S.—Geo. McKerrow, Sussex— Dairying, where properly followed, showed the best returns in 1894.

## STOCK.

#### Chatty Stock Letter from the States.

(FROM OUR CHICAGO CORRESPONDENT.) Extreme top prices now, compared with one

na two years ago :				
CATTLE.	1895.	1894.	1893.	
1500 lbs. up	\$5 60	<b>\$4</b> 80	<b>\$6</b> 00	
1350 @ 1500	5 41	4 80	5 95	
1200 @ 1350	5 25	4 50	5 35	
1050 @ 1200	5 00	4 00	4 90	
<b>990</b> @ 1050	4 70	3 60	4 60	
Stockers	4 25	3 90	4 60	
Fat cows	4 50	3 35	4 75	
Canners	2 50	2 25	2 60	
Bulls	5 00	4 00	4 25	
Calves	575	6 <b>2</b> 5	7 50	
Texas steers	4 55	4 00	4 75	
Texas cows	3 45	2 35	3 25	
Hogs.				
Mixed	\$4 35	\$5 30	\$8 50	
Heavy	4 45	5 30	8 70	
Light.	4 20	5 30	8 30	
Pigs	4 00	5 20	7 80	
SHEEP.				
Natives	\$4 65	\$4 50	\$6 00	
Western	5 50	4 00	5 25	
Texas			5 00	
Mexican	4 50	3 50	5 40	
Lambs	5 65	4 55	6 50	

Cattle and sheep are advancing and hogs declining. Good packing hogs only cost about \$4 on an average.

Reports from the range country are somewhat conflicting. The recent heavy storms undoubtedly did a great deal of damage to live stock interests, but in the main the losses so far have been very light

High priced feed has caused cattle feeders to shirk and skimp a good deal. Buyers complain that the cattle do not net as much beef tallow and "butter-fat" as they should, nor as large a proportion of good beef.

Live cattle exporters have been fairly busy at Chicago, as the following record of a week's business indicates. Inspectors tagged cattle for export as follows:-J. M. Greenbaum, 350; A. J. Thompas follows:-J. M. Greenbaum, 350; A. J. Thomp-son, 769; Schwartzchild & S., 187; Morris, 461; thrown into an ordinary manger and not interfere Goldsmith, 66; Hathaway, 266; Shamberg, 557; Lehman, 235; Swift, 555; Epstein, 150; O'Donnell, 100; making a total of 3,696, against 4,177 the previous week, and 6,064 a year ago. The present French tariff is nearly \$1 per 100 on States cattle. It costs about \$18 to \$20 per head to market American cattle in Paris after landing at Havre, the biggest item, of course, being the tariff. It is said that the American cattle shipped to Paris do not compare in quality with the French stall-fed steers, many of which weigh 2,000 lbs Some fancy fat bulls have lately been sent in. One extra fine 2,130-lb. Hereford sold at \$5.00, or \$106.50; and another, weighing 2.180 lbs., sold at \$1.50. Exporters paid \$3.57 to \$1.00 for many bulls. A. J. Thompson bought export steers at \$4.75 to \$5.25. J. M. Greenbaum bought 1,377-lb. to 1,500-lb. steers at \$5.00 to \$5.45. Hathaway bought 1,557-1b. bulls at \$3.95, and 1,416-lb. to 1,520-lb. steers at \$4.90 and \$5.15. Cattle supplies are very short, and nothing but the late uneasiness about financial matters has prevented a sharp rise in values. Dealers are asking, if these small cattle runs keep up a while longe regardless of prices, how long will it take the trade to find out that there is a serious shortage of cattle? France has already put very strong restrictions on American live cattle, demanding certificates that are difficult to supply. For instance, a federal inspector must certify that the particular cattle have been personally known and seen by him for ninety days. William Peace, who has been to France many times, says the action of the French farmers in demanding protection against the comtition of American cattle is not surprising, and believes the agitation will be kept up until some se is found or made to stop the growing trade. While experienced butchers, in some cases, ad that choice heifers, and even good fat cows, will be worth as much in the beef as steers, there few of them who will pay anything like the factory.

same price for them. The highest price lately for heifers or cows was \$4.50, while steers, no more above the average excellence of beef steers than the former were above the average of their kind, sold up to \$5.60; sixteen 1,531-lb. Hereford cows, \$4 50. A lot of 19 Hereford heifers sold to Swift at \$4.00, averaging 1,053 lbs. The Standard Cattle Company marketed 30 fed

Western steers, 1,428 lbs., at \$4.95, and 50 heifers, ,173 lbs., at \$4.20.

John Rohwedder, of Wyoming, Ia., was the feeder of 15 head of choice 1,591-lb. grade Shorthorn cattle, which sold to Eastman at \$5.60.

Chicago's receipts of live stock for the year so far, compared with last, show a decrease of 75,000 cattle, a gain of 250,000 hogs, and a decrease of about 5,000 sheep. The Illinois State Board of Agriculture, after

heated discussion, decided to continue the fat stock show in Chicago. It is given out that the prize list is to be enlarged as to car-load lots of fat cattle, hogs and sheep, and also horses, as well as a grand agricultural exhibit. The classification of driving and saddle horses is very much changed. Something is certainly needed to increase the usefulness

of this once important annual institution. How tired we grow of that "biggest steer in the world." He bobs up every once in a while and no-body knows what he is good for. His owner usually is anxious to sell him, but always, or nearly always has to take less than the monstrosity cost to raise.

The South is beginning to raise its own hog and hominy, but Mr. Armour says that from the stand point of pork packers "the South is still worth two There is sad need of improvement in Europes.' the breeding and also the feeding of Southern hogs. An occasional lot of old-fashioned "razor backs" come to market, and they attract a great deal of attention.

In last issue I mentioned that the Chicago pack ers, in some cases, were reorganizing their forces of live stock buyers on a lower salary basis, only the word "lower" was printed "corner." They pay their oldest and best men very high salaries.

#### Salt for Stock.

We are surprised, when passing through the country, to find so few farmers who use rock salt for their stock. Whenever we find a man who uses it he always speaks of it in the highest terms. The writer can say from experience that there is no other way of salting stock nearly so satisfactory in every way as by the use of the rock

It is a settled fact that stock salted once a week take too much when given to them, which has the effect of wasting much nutrition in the animal which the system requires, and before the next salting day comes round ill-effects are caused in the system by the lack of salt. This being the case, the farmer who depends upon weekly salting, be he ever so regular, cannot fail to lose milk from his cows, and flesh from his steers and other fattening stock. Some resort to the plan of putting a little salt into the food every day or two. Now, this is all chance work, and cannot give the best results, as the animal itself is the only proper judge of how much to take, and will never take too much or too little when given free access to it. Now, when stables have been fitted up with salt boxes in the stalls, the supply can be kept constantly before them by using either barrel or rock salt, - the former having to be supplied every few days, while a four or five-pound lump will last for weeks. Another with the food. The animals can lick at it as desired, and no evil results or waste in food or salt can follow. Then, again, for field salting in the summer, a lump can be thrown on the ground, exposed to sun and rain, without loss or other objection, while when barrel salt is used the box will be half the time empty, and irregular salting results.

Are Shorthorns as Good as They Used to Be? [Paper read by Mr. Robert Miller before the Dominion Short horn Breeders' Association annual meeting.]

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The above question is so often asked that perhaps no paper that I might read here would be haps no paper that I might read here would be more interesting to a majority of the Shorthorn breeders in Canada than one attempting to answer it. New men in the breeders' ranks, and young men, are not the only ones who ask this question, but many who have had long years of experience ask it, and proceed to answer in the negative and defend their belief. While this may work no harm, as I believe it always better to speak work no harm, as I believe it always better to speak out on matters of interest to the majority, yet I think it would be a source of satisfaction to all who have the interests of the breed at heart if they were convinced that Shorthorns are not only as good but better than they used to be, and we may learn a good lesson by looking back in comparing and figuring how to avoid mistakes and repeat success in the future.

When conversation turns to Shorthorn subjects and flows in a retrospective channel, Queen of Athelstane, Rosedale, Violet's Fourth, and Butterfly's Duchess are sure to be mentioned, together with an equal number of bulls that were prominent in the same days, and we hear the statement that no such cows and bulls are seen now. We are all free to admit the excellence of those animals; but is that the test that is to be applied? If so, we would merely have to compare the show-yard animals of the distant past with those of the present, and I am sure that even this test would not prove any cause for dissatisfaction with results attained. The great cows named above stood out preeminently above their competitors. Those that won before their day were not so good; those that won immediately after them were not such shining lights. We can only, in justice to the present time, compare the best with the best of that period. Havering, Nonpareil, Isabella, and Rose of Strathallen 2nd may fairly be called stars of the present decade; and while it is unnecessary to say that they were better, they were certainly in every way as good. In their show-yard career they were surrounded by large classes that were worthy competitors, and they show their superiority by being able to breed on, each having produced winners to perpetuate their names.

We do not hear the other classes discussed by those who had such a delightful impression made on their memories by the Queens of the past; not because they would willingly do an injustice, but because no other classes of those days charmed them as the matrons did, and it is from this lack of memory that the present suffers in comparison. Can any breeder remember seeing such classes as our yearlings and calves have made in the past five years at Toronto, even if a person were prejudiced? No, must be the answer; but the claim might be made that the classes were small then, because the breeders were few; so I will venture to say that the first prize winners of twenty years ago could not compare with the winners of the present.

The bull classes of the present decade have also furnished animals superior to those shown years ago, and this can be accounted for partly by the best being imported or purchased by those who exhibit to nearly as great an extent as years ago, which practice is not followed to so great an extent in females as formerly, and partly from the im-provement made by our own breeders. There are not so many professional showmen now as in years past-men who searched the Shorthorn world for the best, regardless of cost; and many of the foremost breeders take no part in the show-yard contest; thus many of the choicest never appear in public, and those retained and shown by their breeders necessarily appear in a limited area.

#### Canadian Horse Show.

We are pleased to announce that arrangements have been completed for holding what is now to be designated the "Canadian Horse Show," in the new Armory Building, Toronto, on Thursday, Fri-day and Saturday, April 18th, 19th and 20th next, under the auspices of the Provincial Agriculture and Arts Association, and the County and Hunt Club of Toronto. Large premiums will be offered for all the recognized breeds of stallions, and for all kinds of driving, saddle and jumping horses. Prize lists and other information may be obtained from Henry Wade, Secretary Agriculture and Arts Association, or Stewart F. Hewson, County and Hunt Club, Toronto.

M. Gaudaud, French Minister of Agriculture, has made an order-in-council forbidding the importation of American cattle into France on account of the fever and pleuro-pneumonia with which they are alleged to be infected.

One of the lessons of recent old-fashioned Canadian weather, with its frequent snow-drifts, has been that wire fences along the highways are one of the essentials to passable roads in winter. Snow shovelling constitutes a heavy bill of expense in many muncipalities, and the results, as far as travelling is concerned, are not usually very satis-

While the show-yards cannot be ignored for the purposes of comparison, yet they do not supply the only means of judging between the present and the past.

A few good animals do not make a herd, and it is in the general excellence of the whole herd that the value lies, where all the animals are good. Scientific breeding and good judgment are bearing fruit, and this is where the Shorthorns of the present day so completely overshadow those of the past, in their uniformity of smoothness, growth, constitution and general character. Breeding Shorthorns, like the breeding of other classes of domestic animals, has been reduced to a science, founded on the principal that like begets like, if the form that is to be begotten is honestly inherited; two animals whose ancestors were not like each other, and not like the offspring when mated together, could not be relied on to produce of their own kind, and while the product might be an extraordinarily good animal, it would just as likely be extraordinarily bad; such mating would not be according to approved or scientific methods, but would be haphazard or chance breeding, and this is the kind of breeding to which can be attributed many of the phenomena of the olden times. They were produced by accident, and they towered so high over their brothers and sisters and mates in the herds that we were impressed by them to such a degree that their companions were overlooked or

forgotten. When two animals were mated, one being of a very good type, but perhaps small, the other being of great size and not so smooth, the progeny might embody the finish of the former and the extreme size of the latter, -- an accident in breeding, but still a great show animal.

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A male and female might be mated that were of the same size and form, but their ancestors of all imaginable shapes and sizes; the calf might take its form from a granddam on the one side, and its size and gayety or style from a grandsire on the other, and be a wonder; but, after all, only an accident. Such an animal cannot breed on, thus we can account for many of the best individuals being absolute failures in the herd. A male or female of abnormal size, such as are

often found in great winners, could not possibly be descended from a long line of ancestors such as themselves, so that they could not be expected to produce their own kind; they are accidents in breeding and their work will be haphazard and full of chance

Breeding on the advanced methods of the present day has produced the uniform classes of our great exhibitions, and it has produced our uniform herds; exhibitions, and it has produced our difform herds, not in a short time, but after many years of per-serverance with our ideal clearly before us. The animals composing those classes and our herds, having been bred in a majority of cases from such as themselves, can be relied on to reproduce, and while we may not always produce a show animal, we can confidently depend on never producing a really bad one. While it is unnecessary to deny that many of the old-time animals were grand, it would be impossible to deny that a great proportion of the pure-bred cattle were no credit to the name, and if the latter were bred without intention, the former must to a great extent have been accidental as well.

Let us, then, take encouragement from the fact that the general excellence of our present day herds is far beyond that of those that were in existence during what is termed the palmy days of the cattle trade, and that if we have made such improvement

in the past, it is within our power to go on improving. Let each and every one here lend their assistance to that end; for, like the attempts to reach the North Pole, the nearer we come to our ideal the greater the difficulties to overcome; but unlike them in this: every step forward is a material benefit to mankind.

#### Weight of Smithfield Club Prize Sheep.

WM. WALLACE, NIVERVILLE, MAN.

An analysis of the weights of the prize-winning sheep of the different breeds at the recent Smith-field Club Show furnishes an interesting and instructive study to sheep-breeders and feeders, as well as to those proposing to embark in that industry. The show was an excellent one, both as to numbers and merit, considering that stock was excluded from several districts which were then scheduled on account of foot and mouth disease. The sheep were exhibited in pens of three, each breed being represented by three classes—Wedders, Ewes and Lambs. The wedders were shearlings, with the exception of the Cheviot and Mountain breeds, in which there was no restriction as to age. In the following abstract the average live weight of each sheep in each first prize pen is given in pounds, fractions of a pound being omitted :

BREED. WI	EDDERS	. EWES	. LAM	BS. REMARKS.
Leicester	278	291	162	2nd prize lambs, 171 lbs.
Cotswold	315		198	
Lincoln	322	341	200	" wedders, 348 lbs.
Cheviots		221	none.	Wedders, 2 yrs., 7 mos.
Mountain	195	173	**	2nd p. wedders, 209 lbs.
Southdown	211	212	166	2nd p. wedders, 221 lbs. ; 2nd p. ewes, 236 lbs.
Shropshire	236	252	152	2nd p. wedders, 252 lbs. ; 3rd p. lambs, 176 lbs.
Oxfordshire	294	303	191	2nd p. lambs, 203 lbs.
Hampshire .	280	284	202	2nd p. lambs, 220 lbs.; 3rd p. lambs, 217 lbs.
Suffolks		266	217	ora principalitation
Doreoto			001	

to attain the greatest weight. The second prize pen of Lincoln wedders were the heaviest sheep in the show, weighing 348 lbs. The prizes for the mountain breeds were gained by Scotch Black-faces -the three prize-winning pens of wedders scaling from 188 to 209 lbs., at nineteen to twenty months old: a very good showing for this picturesque mountain sheep, which is coming into fashion. were glad to see an illustration of a fine specimen of this breed in the ADVOCATE (second issue) for January. It will be observed that mere weight was not the primary consideration in awarding the prizes, and that quality, early maturity, uniformity of type, and an exhibition of the true characteris-tics of the breed, had all their due weight with the judges.

## FARM.

#### Good Roads Convention.

The second annual Convention of the Good Roads Association was held in Toronto, Feb. 7th and 8th. Although this Society is only one year old, it has awakened sufficient interest to draw from different parts of this Province about 150 delegates. The work of this Association has been, so far, to collect and distribute information. Speakers were sent out on almost every Farmers' Institute delega-tion in January. The need for much better roads than now exists in many parts is keenly felt, and all that seems necessary is to propose a reasonable scheme whereby the people can better the condition of the public highways without too great an outlay of money.

At the opening session, among those present were His HonorLieut.-Governor Kirkpatrick and the Hon. John Dryden, the former of whom referred to the farmers as the most influential class in the Province. Anything that benefits the farmer benefits the nation. Farmers living in a country with the best roads have a great advantage over those where only poor roads are to be found, because the time, labor and injury to products taken to market or depot over improved highways are at a minimum. In referring to the statute labor system, His Honor stated that quite half the time spent on roadmaking is frequently wasted, and that if paid overseers were engaged the money now spent would reach the utmost capacity. The speaker also said that nearly every county had contributed large bonuses to railways, some of which reached from \$150,000 to \$200,000, and as much, or more, benefit would result from a similar amount spent on roads.

Hon. John Dryden stated that we have been running too long in the old rut, "working for the Queen," as it is called, which means, in too many cases, to spend as little muscle as possible. There is much and of botter muchtle as possible. is much need of better work than has formerly been done. In some sections cobblestones as large as a man's head are drawn onto the road and left rolling about, which preserve the road by making it im-passable. Broad-tired waggons would help our roads wonderfully. In the speaker's opinion, the immediate need seems to be that of better direction of our present statute labor system, which will not be abolished for some time yet. It is all very well to talk of making a law, but the proper time is not until the people want it. What we want now is to have a permanent overseer who understands his business, and abandon this abominable system of passing the job around, so that Farmer Jones can fix the road opposite his place this year according to his notion, and Farmer Smith the next according to what he thinks proper. Mr. A. W. Campbell, City Engineer, St. Thomas,

year. In E. Northumberland a road commissioner has been employed for the last four years, to the general satisfaction of the ratepayers, although the idea met considerable opposition when first introduced. The commissioner is paid by the day, and is employed about six months of the year. His duty is to oversee all road work other than statute labor, and also to be ready to consult with and advise the regularly appointed pathmasters, so that the work done in the entire riding is as uniform as possible.

possible. Mr. A. H. Pettit, in speaking, advised going slowly, avoiding any scheme that will require a lot of money in the outset. Mr. Murray Pettit advo-cated beautifying roadsides, because of its refining influence and its tendency to enhance land value.

At the closing session, resolutions were passed favoring the continuation of the Association's work of gathering and circulating practical information, and also that they demand legislation to revise the laws relating to toll-gates, and that the members of the Association organize local associations in their respective districts.

It was also resolved that there be a Legislative Committee appointed to look after the improve-ment of our road laws. The changes recommended were : first, the reducing of the number of path-masters ; second, their selection through merit and masters; second, their selection through merit and knowledge of roadmaking and repairing; third, that they be given power to call out statute labor when needed, and that they be paid for all work over and above that which they are liable for; fourth, that a competent person be appointed as road overseer, who shall keep an eye on all work done and report same annually; fifth, that his re-muneration be fixed by municipality. This Com-mittee is expected to investigate the subject of legis-lation through which the use of broad tires can be encouraged and narrow ones discouraged. Among other changes asked is that municipalities be given power to ask a vote on the abolition of statute labor power to ask a vote on the abolition of statute labor in their territory, and that plans be formulated to divide the roads into county or township roads. It was also resolved that drainage laws be carried into effect in word building.

into effect in road building.

It was also resolved that circulars be sent out by his Association to Municipal Councils, Agricultural Associations of various kinds, Boards of Trade, etc.,

Associations of various kinds, boards of Trade, etc., asking co-operation, and road reform data. Officers.—President, A. Pattullo, Woodstock; First Vice-President, J. F. Bear, Black Creek; Second Vice-President, A. W. Campbell, St. Thomas; Sec.-Treas., K. W. McKay, St. Thomas. Executive Committee A Mahon Abertovle J. Shennard Committee—A. Mahon, Aberfoyle; J. Sheppard, Queenston; Alan Macdougal. C. E., Toronto; J. C. Judd, Morton; M. Kennedy (Mayor), Owen Sound; W. F. Campbell, Brantford; J. H. Wooley, Simcoe; Robt. Jelly, Jellyby, and E. Kidd, N.Gower.

#### The Constituents of Corn.

In the account of the convention of the Ontario Creameries Association, at Chesley, given in the February 1st ADVOCATE, your correspondent, commenting on my short address on the "Constituents of Corn," attributed to me the remarks made by Mr. John Gould on that subject. Very briefly, the salient points that I made on that occasion were as follows :- Carefully conducted field and laboratory experiments at the Central Experimental Farm, Ottawa, with several varieties of fodder corn, had shown

(1.) That the corn plant increases in value by the storing up of digestible dry matter until the kernel begins to glaze. If left uncut after this period, the fibre is rendered less digestible, and the percentage albuminoids somewhat lessened, and consequently the food value is lowered.

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Cross, Oxfd.-Shrop. Cross, Hamp.-Cots. Cross, Bordr.-Lestr.-276 304 298 lst p., cross wedders. 2nd p. Cross, Oxfrd.-Hamp.

282 Reserve 249 1st p. cross lambs.

For Mountain cross-bred wedders the first and second prizes were gained by Border-Leicester-Cheviots, the reserve being a pen of Border-Leicester-Black-faced crosses. Silver cups, value \$60, were given for the best pen of each breed-the wedder, ewe and lamb classes competing against each other. In every case these cups were awarded to the wed-der class, except the Hampshires, in which the lambs carried the breed championship. lambs at 101 months weighed 202 lbs., being the heaviest first prize lambs among the pure-breds; and it is to be noted that the 2nd and 3rd prize pens were considerably heavier than the 1st, showing that the Hampshires, as represented at this show, take the premier place among the pure breeds for early maturity and weight combined. Great as these weights were, however, they were topped by the cross Oxford Hampshire 1st prize lambs, which attained the phenomenal weight of 249% lbs. In addition to the breed and class prizes, a champion plate of \$100 was awarded to the best pen of Long-wooled sheep or lambs, embracing the first five breeds in the above list. This was gained by the Leicester wedders, twenty months old, the reserve being the Cotswold wedders, twenty-one months. A champion plate of \$150 to the best pen of Short-wools, comprising the remainder of the list, was, after an exciting contest, awarded to J. J. Colman, M. P., for the Southdown wedders, twenty-one months old, the reserve being the Shropshire wed-ders, twenty-four months, the property of Mr. A. S. Berry. The Southdowns, although the lightest of all the breeds, except Mountain sheep, seem to hold their ground and even to gain in favor. Their mutton in the London markets is generally about three cents per pound higher than the heavier preeds. The Lincolns, on the other hand, may claim

read an interesting and exhaustive paper, bearing on all the phases of the road question. *Delegation Speakers.*—A number of Good Roads

delegates to Farmers' Institutes were called upon to give testimony of the feeling throughout the country. Almost every man stated, in substance, country. Almost every man stated, in substance, that the question of road improvement was dis-cussed with great interest. Nearly every one is in favor of a change in the appointment of path-masters, and statute labor as now carried out. A uniform method of roadmaking is asked for, and the present system cannot give that.

A number of practical, pointed five-minute addresses were given by delegates from various parts of the Province, who brought out the following The first thing necessary in making a good road is to have proper drainage. Some favored a drain down the centre of the road; others on each side of track. Open side ditches were also thought side of track. Open side utches were also thought necessary by some, while others advocated covered drains. The kind of soil in which the road is made must govern the draining question. Almost every man spoke in favor of road machines, as they put up a splendid grade quickly and uniformly.

Among the speakers was Mr. McEwing, ex-President of C. F. Institute, who does not favor borrow-ing money from Government to build roads, which ing money from Government to build roads, which was recommended in Mr. Campbell's paper. He said, "The good Lord helps those who help them-selves." It is not well to shoulder a debt at all when it can be avoided. Although the statute labor system is not good, let us be sure we have something better before we give it up. "Our climate," con-tinued Mr. McEwing, "will not permit the keeping of our roads in as high condition as those of many other countries. The first thing to do is to work up other countries. The first thing to do is to work up public sentiment."

Road Commissioners were advocated by most of the speakers, some of whom were in favor of electing them in the same manner as municipal officers. It was generally admitted, however, that a good man should retain the position year after (2.) The dry matter in different varieties of

(2.) The dry matter in different varieties of fodder corn, taken at the same stage of growth, is very similar in composition.
(3) That it is during the early part of the season that the corn plant takes from the soil the larger portion of the mineral constituents it requires, and also that the albuminoids, whose chief constituent is nitrogen are also principally formed in the tissues. is nitrogen, are also principally formed in the tissues while the plant is yet young. The following table gives the data upon which I

base these conclusions :--

COMPOSITION, YIELD PER ACRE, AND DRY MATTER PER TON AND PER ACRE.

STAGE OF Growth,	Vater r Cent.	Matter Cent.		ield per	Dry Matter.							
	Per	Dry Per	A	cre.	Per Ton.	Per	Acre.					
Early Milk.	77.86	$14.27 \\ 16.17 \\ 19.95 \\ 22.14 \\ 26.18$	Tns 22 24 22 21 21	Lbs. 1329 52 1806 759 1154	Lbs. 285 323 399 443 524	Tons. 3 4 4	Lbs. 468 1770 1138 1467 1298					

A consideration of these figures makes it quite clear that there is a gain in nutritive value to be obtained by allowing the corn plant to grow till the kernel glazes.

The above data make quite evident the tremendous increase in the food material that takes place dons increase in the root material that takes place in the corn between the tasseling and glazing con-ditions. The varieties used in these experiments were Longfellow. Pearce's Prolific, Thoroughbred White Flint, and Red Cob Ensilage. Of these, the White Flint, and Red Cob Ensilage. Of these, the two first named varieties only could be recom-mended for ensilage purposes in this district. In ordinary seasons, the cob on the Longfellow, and the Pearce's Prolific. will glaze before there is much danger of frost. FRANK T. SHUTT, Chief Chemist. Ottawa

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#### THE FARMER'S ADVOCATE.

# THE FARMER'S ADVOCATE & HOME MAGAZINE

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

#### PUBLISHED BY

THE WILLIAM WELD COMPANY (LIMITED). LONDON, ONT., and WINNIPEG, MAN.

#### JOHN WELD, Manager.

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## Reforms Needed in Provincial Agricultural Organizations. In Feb. 15th issue of the ADVOCATE we presented

some considerations indicating that the work of the Ontario Creamery Association might well be carried on by the Eastern and Western Dairying Associations, thus saving a very heavy item of expenditure to the Province.

During the time of the recent Central Farmers Institute meeting in Toronto the suggestion was made in several quarters that in view of the fact that the Institute system is now under the special superintendence of an official appointed for the purpose, and that the subjects taken up on the programme are so thoroughly covered by local Institutes and meetings of other organizations, the question of disbanding might fairly be considered. As our readers are aware, it has been more than once urged that the Central Institute has never accomplished anything commensurate with the expenditure which it involved. However, the suggestion to vote themselves out of existence did not find general favor, or, at all events, did not take effect, but we do not see that any additional reasons for its continuance or proposals for making it more really efficient have been offered. Our Provincial Legislators would do well to take this matter into their serious consideration.

In our judgment, the Agriculture and Arts Department, and the Act and various amendments governing same, also stand in serious need of revision. We are glad to note that the Governor's speech in opening the Legislature makes mention of consolidating and amending Acts relating to agriculture. There was a time when the Agriculture and Arts Association had a great deal of work to do, but with the abandonment of the old Provincial Fair and the prize farm system, two of its important functions passed away. To our mind the annual ploughing matches might also be lopped off without serious loss to the farming interests of the Province. As we understand it, the relation of the Agriculture and Arts Association to the Veterinary College is merely nominal, so that point need not be considered. In the matter of keeping official records of pure-bred stock, we see no valid reason why this work should not be controlled and carried on directly by the breeders themselves, as is the case in the great Record Associations "across the lines." The breeders can be trusted to look after this work, because they are the men whose interests are really at stake, and they will certainly look carefully after their own finances. The Agriculture and Arts stamp has been of little avail to us in the effort that has been made during the past year to secure the recognition of Canadian records by the U.S. authorities.

A couple of years ago the Holstein-Friesian men organized an association in Canada; they directly manage their own affairs, pay their own secretary, issued their own herd book, and at the recent annual meeting reported over \$400 in the treasury, with no outstanding liabilities. We fail to see any good reason why the other Breeders' Association cannot manage their own affairs in a similar way, and we do not see that it is reasonable to ask the Government to do for individuals, or organizations, what they can well do for themselves. Should the breeders absolutely need a grant, it might as well be made direct as filtered through the Agriculture and Arts Association. It will also be no difficult matter to make provision for sufficient inexpensive machinery to co-operate in the holding of the Winter Fat Stock Show and Spring Exhibition of horses, and for that matter the proposed exhibition of dairy stock in Eastern Ontario.

#### Popular Geology-No. 9.

89

(BY PROF. J. HOYES PANTON, M. A., F. G. S.) COAL-ITS ORIGIN AND FORMATION.

Carboniferous System.-This name has been given on account of the nature of the products in this system, there being much carbon present. This is a term likely to be misleading ; for we may conclude that wherever much coal occurs, the rocks must belong to the Carboniferous. This is not the case, as is seen in the coal deposits of our Northwest, which belong to the Cretaceous system (No. 11). However, Carboniferous has been applied to the system by early geologists, and must in the meantime be accepted.

The rocks of this system include 15,000 feet of deposits containing immense quantities of coal, which is found in seams varying from a few inches to 30 feet in thickness; between these are layers of shell, sandstone and clay, and often deposits of iron ore. Limestone is also found in rocks of this system. As we learned in the last chapter, the geological records of Ontario closed, and we must therefore seek elsewhere for coal deposits. Such occur in Nova Scotia and New Brunswick. The plant life of this period was of a most luxuriant type, and very uniform; it is the same in all beds of the coal of this time, which leads us to infer that there was a uniform climate for that period in all parts where this system occurs, and we find it repre-sented in the United States, Canada, Greenland, the Arctic regions, and Australia. The plants were large, and very numerous, but the species were limited and all were flowerless types like the ferns, mosses and club-mosses of to-day. They bore no flowers and matured no seeds, but produced spores, from which plants of low types grow. So abundant was this simple form of plant life that the period has been termed the "Age of Flowerless Plants." The typical plants of the time were ferns, calamites (allied to our horsetail plants), lepidodendron, sigillaria, and stigmaria; some of great size, though the types of our plants allied to them are seldom more than a foot high. The accumulated remains of these luxuriant forms of plant life are what contributed the material for the production of coal. Animal life was not so characteristic and striking as that of plants. Some frog-like creatures, spiders and some snails have been found imbedded in the deposits. The trilobites are nearly all extinct ; consequently where we find trilobites on rocks near the surface, we need not expect to find coal below, as they disappeared before coal was formed.

Economic Products.-The great product of this system is coal, but iron ore is sometimes associated with it. Limestone and sandstone are also obtained from these rocks, and in some places Petroleum occurs. Regarding the origin of coal, two theories are set forward; both agree in considering that coal is derived from the accumulated remains of plants, but differ as to how the formation of the deposits took place.

1. Raft Theory.—This theory accounts for coal by an accumulation of vegetable matter which may have shifted from its original position, then became submerged and changed into coal. This might occur in large rivers, and is only applicable to comparatively limited areas of deposits.

2. Swamp Theory.—According to this view, the remains did not change position, but simply became submerged and gradually changed to coal, beneath whatever may have covered the beds, such as sand or silt. A forest located at the mouth of a river not much above the level of the sea would be in a good position to undergo the change. Every seam of coal represents an ancient land surface; consequently where several seams occur, we are led to believe that there were several periods of elevation and submergence. The luxuriant vegetation of the time seems to indicate warmth, humidity, uniformity and very little movement in the atmosphere. Some argue from the rank vegetation an excess of carbonic acid in the air. The absence of mountains would, no doubt, cause less precipitation and more moisture. It was a time of forest and jungle, and the sea covered with numerous islands. At the close of the period the rocks were much disturbed and subjected to change by subterranean forces. All coal is not confined to this system. It is found in Jurassic (No. 10), Yorkshire; Triassi (No. 9), Virginia; Cretaceous (No. 11), Northwest; Miocene (No. 13), Oregon; Carboniferous (No. 7), England, Nova Scotia and Pennsylvania. Permian System.—This represents a transition period. Some of the gigantic types of plant life have passed away and never appear in the rocks again. The system is represented in Nova Scotia and some parts of Virginia by red sandstones. It and some parts of Virginia by red sandscones. It ends the second volume (Palacozoic Age). At the close of this age the Appalachian Mountains appeared. During this age 70,000 feet of rock were formed, and throughout this vast period of time igneous ejections occasionally occurred, as is seen in some Cambrian deposits in the Rocky Mountains; Cambro-Silurian of Nova Scotia; Silurian of New Brunswick; Devonian of Quebec; and lower Car-boniferous of New Brunswick.

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#### Seasonable Premiums.

On page 99 of this issue appears an attractive list of premiums, which persons old or young can readily secure at this season by obtaining new sub-scribers to the FARMER'S ADVOCATE. What can so beautify the home surroundings or render the same satisfaction as a tasty flower garden? A little effort will obtain one or more collections of the choicest varieties. The vegetable seed premiums are equally good. The securing of three new subscribers will earn both the flower and vegetable collections, and a choice from the bulb and rose list.

Lags for hatching, from the famous poultry yards of C. J. Daniels, Toronto, are also offered.

The Siberian oats offered stand ahead of all White varieties sent out in connection with the Exponental Union for the last six years.

It is very apparent from these considerations, as well as others that might be offered, that the time is opportune for a thorough revision of the Agriculture and Arts Department, and we have no doubt that the Minister of Agriculture, and those members of the Legislature particularly conversant with the live stock and farming interests of the Province, will give this matter their prompt and earnest attention.

A very considerable saving might be effected, or, at all events, the grants which go in the directions referred to, or a portion of them, might be better employed otherwise in fostering the interests of agriculture. The Agricultural Department should be dealt with like any other department of the Government, according to its needs, which, as we have shown, vary greatly under altered conditions.

The patrons of the Elma cheese factory have decided to try Prof. Dean's plan of paying for milk next season; that is, adding two per cent. to the actual fat readings and then dividing in that proportion.

Kindness will do more than brutality; therefore, do not use harsh language to your horse, or lash, beat or kick him. Bear in mind that he is very intelligent and sensitive, a willing servant, and deserving of your kindest treatment and thought. 90

## THE FARMER'S ADVOCATE.

## FARMERS' INSTITUTES.

#### Suggestive Gleanings from Division No. 6.

Another winter series of Institute meetings have been held throughout Ontario. The work this year was under the supervision of Mr. F. W. Hodson, who sent out ten different deputations — three speakers, well versed in different lines of farming, on each deputation. A few speakers were sent out by the Good Roads Association to discuss the im-provement of public roads, as it is thought by many that the old that the old

#### Statute Labor System

has outlived its usefulness. It was very well when the country was new to compel the settlers to turn out and chop down the trees, and cut them into lengths of sixteen or eighteen feet, then lay these side by side to make a road-bed over some low, swampy piece of road; for in those days the settlers had plenty of energy and muscle, but very little money. Now it is advocated, especially in the old settled parts of Ontaria, that statute labor be done away with, and that a number of superintendents, who are well versed in roadmaking, be appointed througout the Province, whose duty it will be to see that the roads are kept in good repair at all times of the year, and that all money be raised by direct taxation.

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BOARD

CONCRETEWALL

BOARD

**Cheese Factories Pay Well.** It is noticeable at the meet-

ings this year that there is a growing interest taken in dairying. The farmers are finding out that grain can no longer be grown and sold off the land at a profit. The cheese factories have been paying well where worked under the co-operative system and all take an interest in the factory. Some think it would be well to stamp on every cheese the date and where made, as it is found that the marking of the boxes is not sufficient, when the fact is known that these boxes are found containing inferior cheese of other nations. The creameries are not considered quite as profitable, partly for the want of a good market. Somesuggestthat the Government should subsidize a fast line of steamers to Britain, and fit them up with cold-storage compartments for butter.

As it is now, there is no large market that an in-creased amount of factory butter could reach in good condition.

#### Ensilage.

Many speak well of corn and the silo, as the ensilage is a cheap food for nearly all kinds of stock. It is found by experiments that the silo can be built very much cheaper than at first supposed, as more depends upon the condition of the corn than upon the construction of the silo.

#### The Laws of Breeding

were discussed at many of the meetings, and with profit. It was shown very clearly the necessity of breeding along the one line, whatever the object may be, and by all means avoid the scrub sire; although appearing cheaper at

but mostly standard winter varieties. Buy trees from some reliable nurseryman, and not from an

agent about whom you know nothing. Use plenty of wood ashes scattered around the roots of the trees. Spray the trees as soon as the blossoms have fallen, to prevent the codling moth and the scab on the apples.

#### **Agricultural Education**

was discussed at a number of meetings, and there was a feeling expressed that in rural schools, at least, agriculture should be taught, so as to keep the children in touch with their calling, for the great majority of the children attending school in rural districts are children whose parents are farmrural districts are children whose parents are farm-ing. The Institute meetings were very well attended where properly advertised, but in many cases the secretary neglects this important duty. We are sorry to say, even when meetings are well adver-tised, it is difficult to get the thriftless class to attend—in fact the very class that would be most benefited; but, on the other hand, we find the most successful and intelligent class always present. In these days of close competition, life is too short In these days of close competition, life is too short to find out all that is to be known in the line of farming by practical experience; therefore it is well that we should avail ourselves of the opportunity of learning from the experience of each other.

**A**.

Constructing Concrete Walls.

very clearly the plan of constructing cement con-crete walls and floors. "A" shows a corner section of wall, indicating how studding, plank and wedges are placed. The foundation trenches

wedges are placed. The foundation treness are usually about 20 inches wide, and deep enough so that frost will not get beneath. When the trench is filled to the level of the ground, or a little above, then the frame is set up. Smooth two-inch planks, one used on each side, with stout scantlings— braced, if necessary—to hold them in position. Be-

tween the planks and each upright an inch-wedge is used, and can be knocked out when the time

comes to raise the plank for another tier of concrete

"B" show half-section of floor, the method

of construction which was described in the last

issue of the ADVOCATE. It is not necessary, how-

ever, to have as great a depth of concrete as the illustration indicates. In the feed alley, for

instance, two or three inches will be sufficient, if

well put in. As we have stated in previous issues,

The two engravings given on this page illustrate

breed you believe best adapted to your conditions; get the best individuals you can afford; continue to breed from the best sires of that breed you can obtain, and success is almost assured.

MARCH 1, 1895

Care of Cows and Breeding.

Cows should be kindly used; never harassed by dogs; milked regularly by the one person. For win-ter, warm stables, well ventilated, should be providter, warm scattes, wen ventrated, should be provid-ed, also an abundant supply of pure water. Tempera-ture of stables and water should be from fifty-five to sixty degrees. Exercise should be given when weather is good. For feeding in winter, clover hay, corn silage, cut straw and chaff furnish the cheap-est foods. A meal ration is indispensable. Roots should be fod carefully, mangolds may be fod to should be fed carefully; mangolds may be fed to the extent of thirty pounds per day without pro-ducing tainted milk, and are a very valuable addition to a milk ration.

tion to a milk ration. For summer, good pasturage and pure water should be provided. When grass fails supplement by feeding soiling crops. Peas and oats, mixed, or tares and oats are the best for early use. By sow-ing at different periods a supply can be procured for a much longer period. Green clover, if it can be grown, is excellent for September feeding. For fall feeding corn must be depended upon. The addition of a grain ration has been found productive of good results. Bran and pea-meal, or bran and shorts, are commonly in use, and when fed judi-ciously give good returns for money expended.

### Cleanliness.

To produce an article of prime quality of either cheese or butter, much depends on the care of milk. The most scrupulous cleanliness should be observed throughout. The cow's udder should be carefully brushed or washed before being milked, and milking should be done with dry hands, well washed. Milk after being drawn should be thoroughly aerated in a pure atmosphere, and if sent to the factory, both milkings should be thoroughly mixed together. Covered milkstands are a great advantage. No whey should be returned in the can in which milk is sent to the factory.

#### Too Many Factories. .

The tendency in this division is to build too many factories. Cost of making could be reduced and better makers could be employed were there less factories. As to cheese factories versus creameries, it is the unanimous verdict that cheese should be manufactured from May till November; that cows should be kept in milk for ten months, and butter manufactured during cold weather. The

export market for butter is not satisfactory, and is an easy matter to glut the home market.

## Paying for Milk Accord-

ing to Quality is a very much discussed question. Nobody denies but that the Babcock Tester, in the care of a thoroughly competent person, will determine with exactness the amount of fat in milk. but its opponents claim that the amount of fat in milk is not a correct index as to the amount of cheese the milk will produce. Further and

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good, solid clay is all that is necessary for the drive or gangway behind the cattle. As shown, walls may be slightly narrower at the top than at the bottom, but hardly so much as the artist has indicated in the drawing. These illustrations are from a pamphlet on the above subject, issued by Mr. Isaac Usher, of Thorold, Ont.

the time, in the end there will be great loss.

### **Fattening Cattle**

was discussed at several meetings by able speakers; but it was contented that unless the embargo on cattle going to England be removed, or some other change takes place to raise the price of beef cattle, there can not be much made in feeding cattle, there can of getting a fair price for the grain and other food consumed.

There have been a great number of experiments conducted throughout Ontario with cereals, roots, and potatoes, the published results of which will be very valuable to farmers.

#### The Cultivation of Field Roots and Potatoes

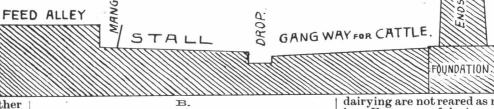
had a very important place at the meeting on account of these crops taking the place of the old-time summer-fallow. They answer a two-fold pur-purpose : First, to clean the land of weeds ; and secondly, to produce roots for feeding purposes ; but if neglected the result will be failure. Therefore, it is very important that the land should be well worked, not only to keep down the weeds, but constant working of the soil will retain moisture, which is very essential.

#### Drainage.

On account of last season being exceptionally wet, especially in the Lake Ontario district, the subject of underdraining occupied the attention at the meetings for some time ; this is an important necessity where the land is low and wet, and should be attended to at once if satisfactory results are to be attained.

#### Apple Growing

is now a very important industry in Ontario, and those who are going to plant an orchard should be guided by those who have made the cultivation of fruit a success. Do not plant many early varieties,



#### Small Fruits.

As the patches of native fiberries are getting cleared away, there is more attention paid to small fruits, which do well, especially near our great lakes. Currants and berries should be planted in rows, so that they can be worked with a horse; the with a solution of hellebore as soon as the leaves begin to open, and again when the fruit begins to form.

#### SIMPSON RENNIE.

#### Practical Suggestions Gleaned in Division No. o.

The leading industry in this division is dairying, and in that subject and its adjuncts, pork produc-tion and corn-growing, the greatest interest was taken.

#### Breeding Dairy Cows.

No cow should be kept that does not yield at least five thousand pounds of normal milk per year. This result is achieved by careful selection and breeding. Bulls from large producing ancestory should invariably be used to grade up with. As to breed : they should belong to one of the recognized dairy breeds. One mistake that has wrought unmore conclusive experiments must be made before paying for milk according to amount of butter-fat will become universal.

#### Pig Rearing. Pigs as an adjunct to

dairying are not reared as numerously as they should For successful pig-growing the essentials are a be. good brood sow, a clean, dry, warm pen, liberal and judicious feeding upon a variety of foods, a certain amount of exercise when weather is favorable. Sweet whey and middlings make an excellent food for growing pigs. Taking the last two years as a guide, the best prices have been realized from May to September.

## The Growing of Corn

as a fooder crop is pursued with much success in this division. The kinds preferred are Longfellow, Compton's Early, and Thoroughbred White Flint. Of the three, the Longfellow has the greatest num-ber of admirers. The Mammoth Southern Sweet is grown by many and yields the greatest amount per acre, but does not reach sufficient maturity to make the best quality of ensilage. For successful com-growing : a loamy soil, well-covered with manure of good quality, and thorough tillage previous to plant-ing sound sound thereas a sound sound the sound sound the sound sound the sound ing sound seed. Harrowing crop:-When corn is beginning to show, hand-hoeing and frequent horsehoeing till corn is tasseling out are necessary. For silage purposes it should be cut when in the glazed stage of growth.

#### The Silo,

as a method of preserving corn in its green state, is attracting a great deal of attention. Many silos are in use, while some have not been filled, their told evil to the dairy cows of this division is the tendency to use bulls of the different dairy breeds indiscriminately—the practice tending rather to multiply evils than to correct faults. Select the a few years, the dampness from the corn producing compu phasize cial Go Mun Thoma He gav taxatio and th

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#### THE FARMER'S ADVOCATE.

decay in the timber. The circular shape has given the best results, and it should have depth rather than large diameter. One cubic foot is sufficient for an average cow per day, and other food is sufficient for an average cow per day, and other food should be fed along with ensilage. When a silo is once opened it is essential that a few inches should be fed off the whole surface each day. While filling, the preponderance of opinion is in favor of tramp ing solid around the sides and covering with about a foot of cut straw or marsh hay.

#### Sheep Husbandry.

Much of the land in this division is well adapted for sheep, and their proximity to the American market should make sheep-rearing very profitable, but owing to the present low price the tendency is to abandon sheep-breeding altogether. This does not appear to be a very wise course, as the small amount of capital required and labor necessary for successful management make the sheep industry one of the most profitable in which the farmer can engage.

#### The Management of Manure

is a live question, and is much neglected in many places. Covered sheds for holding manure are in manure as made is much in favor, and is certainly a wise course, but the depth of snow makes it im-possible to do so at all times. When not drawn out or put in covered shed, it should be drawn into one heap and thoroughly tramped to prevent fermenta-The manure from the horse-stable should tion. invariably be mixed with that from the pig-pen and cow-stable.

Clover, as a feeding crop and for fertilizing pur-poses, is much neglected. The soil in many places is well adapted for its growth, but farmers are not fully alive to the benefits to be derived from its cultivation.

#### Underdraining

is not practiced to any extent. Owing to the stony character of much of the land in Eastern Ontario. draining will not become as universal as it is in the West, but the fact remains that there are many farms in this division that would be immensely benefited by thorough underdraining. Tile are not to be had at prices which the ordinary farmer can afford to pay. There are certainly many openings in this division for an experienced tile-maker, and with tile at reasonable prices, we can certainly look forward with confidence to a great advance in this important work in the near future. MUNGO MCNABB.

### Central Farmers' Institute.

The eighth annual meeting of the Central Farmers' Institute was held in Toronto, Feb. 5th to 7th. The delegation, numbering over 150, were from all parts of the Province.

President McEwing's address was a review of the farmer's conditions, together with suggestions as to improving the same. Farmers must conduct their business on more intelligent principles. They must understand as far as possible all the commercial, climatic and local circumstances with which they are surrounded. United action is necessary in these days of national competition. As many farmers as possible should be returned to Parliament. A more economical administration of public affairs is absolutely necessary. It is Mr. McEwing's opinion that the nearer we come to free trade the better for Canada. The speaker was not despondent over the scheduling of our cattle from the English market, as he considers the American plan of shipping dressed meat better in the end. In referring to the cheese trade, the importance of compulsory honest labeling of cheese was emphasized as a matter for the Dominion and Provincial Governments to enfore. Municipal Economy.—Mr. K. W. McKay, St. Thomas, read a paper on "Municipal Economy." He gave statistics showing the growth of township taxation in Ontario during the last fifteen years, and the increase in the chief items of expenditure in country municipalities. As a large number of those present were, or had been, municipal officers, an intelligent, animated but diversified discussion took place. Electing councils by the whole people instead of by wards was considered by a large number to be a desirable change. It was also recommended that all voters be compelled to cast their ballots for the whole council, instead of plunking for one candidate, as is often done. It was advocated that the old county council, now consisting of fifty-nine men in some counties, be reduced to three or five men, as that number could do all the work necessary at far less expense than is now required. The objections to this change given were that possibly the whole council would be from one district, or, may be, on one side of politics. Some felt that a council should be elected for a term of three years, as school trustees are, on the ground that better men would likely offer themselves to public service. This was objected to on the ground that if a poor man were elected his place would be badly filled for three years, and if a good one, he will be elected year after year any way. It was generally agreed that deputy-reeves were not necessay, as the reeve, if well chosen, is quite capable of doing his own work and that of his deputies. It was deemed wise by some to have expert accountants sent out to audit the public books, and that they be appointed the same as our school inspectors. The assessor should be appointed for three years, with instructions to go over the county in May and June, so that valuation may be put upon the land. The ollector should also be treasurer, with an addihis salary of not more than one-quarter of tio

what the treasurer now receives. It was also believed by some that the process of going about collecting the taxes was entirely unnecessary, be cause if it were made a rule that taxes must be paid in to the treasurer's office by a certain date, they would certainly be paid. This is the plan adopted

in many of the United States, and it works well. Marketing Canadian Meat.—Mr. J. T. Gould, American agent for a large London (England) firm, delivered a brief address on the meat trade. In referring to the "embargo," Mr. Gould stated that he did not believe the English people are in dread of pleuro-pneumonia from this country, and thought that the move was to hinder Canadian cattle coming into competition with English cattle in the interior markets. Mr. Gould is a little doubtful whether the proposed export of cattle to France would prove a success or not, owing to the present restrictions and high duty. Owing to the strength of the landlord interest in England, the embargo is not likely to be soon removed. The speaker also dealt with the various kinds of sheep imported into England, stating that Canadian mutton has not been of as high quality as that from other countries. Down mutton always meets the greatest demand. In some of the English markets a little patch of the skin is left on the carcass to show to what breed it belongs. He referred to a line of hay trade which may be made profitable: it is that of pressing cut hay into bundles of 60 or 70 lbs each, to be shipped to English cities, where room for horse fodder is very scarce in many stables.

What means can be adopted to bring the farmer into closer touch with the O. A. C. and Experi-mental Farm?—Mr. John I. Hobson, Mosborough, read a thoughtful paper on the above subject. stated that all who know the College will agree that splendid work is being executed at that institution. Farmers who do not know what is being done there should visit the Farm during the summer months. Its experimental work was summed up in referring to the 1,700 plots, 26 breeds of stock, to say nothing of the poultry, the dairy school, etc. Until a person knows of these things he should not cuticise the Ontario Experimental Farm. The speaker recommended among other things that ex-students do all they can to show the benefits of the College, by allowing themselves to be heard at Farmers Institutes and other meetings of farmers. The luke-warmness of influential farmers to the College, Mr. Hobson considers a great injury to its reputation. It is correct, and now believed pretty generally, that successful farming must be scientific farming, and that is what the College endeavors to fit its students for. The annual sale was referred to as a means of advertising the College. It was recommended that the sale be conducted in different parts of the country in different years, or, to induce buyers to come long distances to Guelph, to pay the railroad expenses of all who purchased stock, and also prepay the transportation rates on the stock. This would not only draw men to see the institution, but would be the means of introducing good stock into many sections where most needed. It would also help the sale. An annual exhibit of College Farm products could profitably be made at all the principal Ontario exhibitions, these to be in charge of persons sufficiently informed to be able to impart any information regarding the institution.

This paper provoked much interesting discussion from men whose sons had attended the College and from graduates themselves. All spoke in the high-est terms of the course. The old idea that booklearning unfits a man to be a farmer comes only iency of our school ineffi system rom une that direction. Our High Schools tend to educate boys off the farm, while the O A. C. course has the opposite effect, as over ninety-five per cent. of exstudents return to the farm for a livelihood. Mr. C. A. Zavitz closed the discussion by referring to the origin, growth and popularity of the Experimental Union. We may say just here that the newly-elected President of the Central Farmers' Institute is a graduate of the O. A. C. Fifth Form in Common Schools was the subject of a paper by the Rev. Dr. Jackson, Galt, in which recommended more manual education. Men was should be educated to use their hands as well as minds. Mr. Jackson recommended that Fifth Form work be made compulsory, owing to the fact that a very large per cent. of farmers' sons and daughters drop out of school entirely at the end of their Public School course, most of whom would take up Fifth Form work if it were placed at their command. This would raise the educational standard of the masses very materially. It would also demand more qualified teachers, who could command larger salaries than they now receive. The present system tends to separate masses from classes. The proposed change would do much to remove this. The High School Form corresponding to the Fifth Public School Form costs its pupils five times as much yearly as it would in Public Schools. This is an important consideration. This subject is to re-ceive the attention of the Minister of Education. A resolution was adopted in favor of doing away with the High School entrance examination, and to substitute for it the Public School leaving examina-tion, on a Fifth Form basis, or a basis equal to it on ordinary Public School lines. Agriculture in Public Schools. Mr. John Dearness, I. P. S., London, took up the above subject in a masterly manner. A review was made of the attempts to teach agriculture since 1871, when Dr. Ryerson's First Lessons in Agriculture was published, when the teaching of agriculture was balanced ration and a judicious for made compulsory in "the schools. Since then the mature stock to get best results.

rigidity of the course was relaxed, which, together with the insuitability of the text book, retarded the study of agriculture in the schools in a large degree. The experience of France was referred to, and also a review of the course Manitoba has been taking in this matter. A strong argument was made for the teaching of elementary science, not by the use of books alone, but by observation and experiment, and by tracing the relation of cause to effect in many natural phenomena. Mr. Dearness is of the opinion that much could be done by Farmers' Institutes in this direction.

Dairy Farming in Ontario," by Prof. Robertson, Dominion Dairy Commissioner, varied little from his dealing with that subject at the Ontario Creamery and Dairy Associations, which have already been reported in our columns. The Professor stated that in a short time the Dominion Government would be prepared to pay twenty cents per pound for choice creamery butter to ship to the Old Country for the purpose of developing a trade in By resolution his project was that direction. approved.

Clover Growing.—Mr. David Mc('rae's paper on this subject, which is attracting so much attention at the present day, was full of practical suggestions. Discussion went on throughout the reading of the paper, which brought out some good points. Clover may be sown in the autumn with fall wheat where a constant covering of snow can be depended upon. The fertility furnished the land by growing clover is of more value than the seed costs. Alsike seed comes from first crop. It does best in a dry soil. Lucerne is good to sow in a mixture, as it keeps green when others are dry. When grown alone it must have good subsoil, and should be sown in the early spring, on clean land, in drills.

Clovers and Legumes.-Mr. C. A. Zavitz, Experimentalist, Guelph, dealt with this subject from a scientific standpoint, showing the value of growing the crops that answer the feeder's purpose and at the same time enrich the soil. Legumes are nitrogen gatherers, while all other farm crops are nitrogen users. The essential elements of plant foods were dealt with in a masterly manner. Peas, beans, vetches, cow-peas, soy beans, lupines, lucerne, and other clovers, including the new and much-talkedof Crimson clover, were each taken up and discussed

at considerable length. "Meat Production."—The contributor of a paper on meat production was Mr. John McMillan, M. P., who is well known to be one of the most successful beef raisers in Canada. Mr. McMillan said our meat has to compete with that which can be cheaply produced in other countries. Cattle are annually increasing in the United States, while their sheep flocks are becoming less. South America has become a great cattle-shipping country, and are conducting their business with intelligence. To be conducting their business with intelligence. To be successful in feeding cattle a good stable is essential, frost proof, and supplied with water inside. Proper ventilation is very important. The cattle should belong to one of the early-maturing, beefing breeds, and of superior quality. In breeding, nothing but a pure-bred male should be used. He should be from a beefing family. Shorthorns are best because good milkers, so that a revenue may be received in butter as well as plenty of milk to raise the calves upon. Mr. McMillan has Shorthorn cows that give 50 lbs. of milk each day, or 14 lbs. of butter per week. He allows the calves new milk for a couple of weeks, which is gradually changed to skim by adding flax-meal porridge. Feed dry meal as soon as the calves will eat. Keep them fairly fat all the time, as it is in youth they acquire the habit of putting on flesh. Wean gradually so that they will not miss the milk, and fail. All cattle should be housed as cold weather approaches. Changes of food should be made gradually. A control of the should be made gradually. A good feeding ration consists of ensilage, straw, and meal. Keep salt before them all the time. Feeding cattle do best loose, which saves a great deal of labor and manure. The horns should be taken off in the fall when first housed. Never buy poorly-kept cattle to feed, or disappointment will result. Young beeves fatten much more profitably than older ones, as then the demand upon food for than older ones, as then the demand upon root for support is at the minimum. Never feed a scrub, as he eats as much as a good beast and returns much less. As a daily feeding ration, Mr. McMillan has found 17 lbs. of straw, 14 of ensilage, and 24 of mixed meal, costing five and five-eighth cents, very satisfactory. In handling cattle, be kind, wise and quiet Mutton,-Mr. McMillan considers the United States our best market if "Free Trade" could be obtained. Breeding ewes should be roomy, round, and on short legs. The ram should be equally good, and thoroughbred. Lambs should be castrated and docked when about three weeks old. They should be fed grain and clover hay in creep pens as soon as they are able to eat. Rape was recommended as a fall feed. Hogs.-Repeated experiments have proved that young pigs put on flesh much more profitably than older ones. A 300-lb. hog requires six pounds of food daily to sustain the animal. The gain must come from what is eaten over that amount. In the summer season grass should form a considerable portion of the growing pig's diet. Raw food gives better results than cooked. Winter quarters should be dry and warm. Profitable results may be obtained from feeding mixed food; mangolds, clover hay and meal is highly relished. Wood or coal ashes should be thrown to them occasionally. To get best results we must have good pigs, wellbalanced ration and a judicious feeder. Breed from

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## THE FARMER'S ADVOCATE.

Grass Forage Plants.—Prof. Fletcher's address on forage plants varied little from that given at the Stratford dairy meeting, already reported in the ADVOCATE.

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Cheaper Transportation.—Ex-Mayor Howland, President of the International Deep Waterways Association, placed before the Institute the needs of better transporting facilities. That Association is endeavoring to institute negotiation between the United States and Canada for the purpose of constructing a continuous watercourse from Chicago to the sea, having a minimum depth of twenty-five feet, so that it would be navigable by ocean vessels throughout the entire distance. Mr. John Brown, who also spoke on this subject, stated that \$3,174,-285 could be saved annually on six products of Ontario farms by shipping by water direct, instead of using our railroads as at present. It would also open up trade with the Maritime Provinces, and enable Toronto people to get Nova Scotia coal at \$3.00 per ton.

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## DAIRY.

### Feeding Turnips in Buttermaking.

We have always fed turnips in the fall and winter when making butter, and have sent our butter to Toronto, Peterboro and other markets, and have always obtained first prices for it, with the statement: "butter, first-class." Since your inquiry was made I have had the opinion of an expert on our butter, and he says if I want a certificate he will give me one stating that he could detect no turnip taint, that it was very fine in make and of first-class quality.

The manner of making is this: We are very careful to have the milking attended to so that the milk shall be clean and free from anything which could in any way taint the milk, as this would be retained in the cream. As soon as possible after milking, we pour boiling hot water into the milk until it attains about 125 degrees Fahr., then we set in the common creamers or pans. The creamers we run off every 36 hours and the pans every 48 hours, and as soon as the cream is ripe or turned a little sour, we temper it to 60 degrees, and about ten minutes before churning we dissolve a teaspoonful of prepared saltpetre in warm water and stir into the cream and then churn. We use the Dairy Maid churn, and as soon as the glass is clear the butter is all right and in granules. We let it stand a few minutes and then run off the buttermilk and wash the butter in the churn until the water is clear, and then salt with fine salt, one ounce to the pound of butter. JOHN B. STONE & SON.

As you request me to furnish your readers information as to the quantity of turnips fed, would say that I gave each cow about half a bushel twice a day, fed after milking. I have an underground, stone milk-house with stone floor. The milk keeps sweet for three days in the hottest time in summer. We use mostly shallow pans; skim every twentyfour hours; pans kept well scalded and clean; churn in the fall from 60 to 64 degrees. If I were giving each cow two bushels a day I would dissolve some saltpetre and put in the cream. I knew of hundreds of tubs of butter made in the Old Country from turnips and straw, which brought the first price at that time in the English market. Paying for Cheese-factory Milk.

[From an address by Prof. Robertson, before the Western Ontario Dairymen's Association.]

Professor Robertson said Professor Dean's blunder in the official publication of conclusions before they were established by facts was, in his opinion, to he regretted, but it did not prevent a hearty appreciation of the good work Professor Dean had done and the better work he is yet capable of doing. He (Prof. Robertson) had found the Babcock tester and the percentage of fat in the milk as determined by it to furnish an equable basis for the valuation of milk of different qualities at cheese factories as well as creameries. Milk of average quality might be put as containing:

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Of these constituents the cheesemaker tried to retain in cheese the fat, the casein, and a portion of the water. Out of 100 lbs. of milk of such average quality, the cheesemaker might retain in cheese:



The remainder of the milk became whey. A less percentage of fat and casein of rich milk was lost The Babcock in the whey than of poorer milk. tester had made a change practicable to the paying for milk by weight and quality instead of by weight only. Weight multiplied by quality gave true value, for both milk and cheese. Two years ago he had continued experiments to determine the relation which the fat of milk bears to its real value for cheesemaking. His experiments, in the course of which 200 cheese were made, resulted in showing that the percentage of fat in milk was a correct measure of its value for cheesemaking. In these experiments it appeared that a larger quantity of ese per pound of fat in the milk was made from milk containing a low percentage of fat than from milk containing a high percentage of fat. If the weight of the cheese only were to be considered, then the percentage of fat in milk was not a correct measure, but when weight and quality of cheese were considered, then the butter-fat was a correct means of deciding its value. His experiments and examination of cheese showed him that, other conditions being equal, the market value of cheese made from the richer milk was higher than that made from poorer milk. The conclusions from tests of over 200 cheese made experimentally were that for every two-tenths of a per cent. of fat in milk, the quality of the cheese made therefrom was increased in value by one-eighth of a cent per pound. This applied to cheese made from milk containing three to four per cent. of fat. Taking two patrons, A and B, for illustration, the following table shows how close the distribution of money at a cheese factory, according to a percentage of fat, agrees with the real value of the cheese made from different milks. After deducting the expense of drawing milk and manufacturing cheese, eight cents per pound has been taken as the value of cheese, to be divided among patrons. The cheese made from milk containing four per cent. of fat is worth fiveeigths of a cent per pound more than the cheese made from milk containing three per cent. of fat.

Farm Buttermaking.

F. J. S.

**MARCH 1, 1895** 

Where deep cans are used.-Strain and set the milk immediately after milking. To those who would make this work a success, this opening state. ment is not optional, since it covers to a greater or less degree the question of the quality and quantity of the resultant cream and butter. Do not put the cover on the deep can (also called a creamer can or creamer) as soon as the milk is put in it, but allow the animal odor to evaporate, and the milk to cool to about the temperature of the surrounding atmosphere before covering. Experience teaches us that about eighteen to twenty inches in depth and eight inches in width, inside measure, is about the right size of can, but of the bottom of the can we would speak more particularly. The majority of deep cans have a flat bottom, and are frequently without a faucet, being skimmed from the top; others have a faucet at the bottom, the bottom sloping slightly to this side, while still others have a flat bottom with a small groove across its centre which slopes slightly to the faucet. We are not in favor of any of these, because, first, if nice clean cream is desired, they must be skimmed by the use of a conical cream skimmer, which means an extra and unnecessary utensil, and, secondly, because of the extra labor due to the removal of the cans from the water and their return-no little work if many cows are kept. The best can we have used or seen has a conical bottom with the point of the cone in the centre of the can, and the faucet (a straight one, and thus easily cleaned) at the bottom of the cone. This can is screwed into the bottom of the creamer tank, enough space being left under the tank to set a pail to catch the milk and cream. In such a can the sediment, if any, in the milk will settle to the centre of the cone and draw off with the first skimmilk. A glass in the side at the bottom shows when the skim-milk is all, or nearly all, drawn off. The can is never removed from the tank, except for possible repairs, thus saving an immense amount of abor. It is on these latter points that we have objection to the Cooler system of creaming milk. With such a can and tank as we have described, a pint of milk may be drawn from the can without disturbing the remaining contents, or the contents of one can may be removed without disturbing the remaining cans.

The basis of success in deep can creaming is the temperature of the water in which the cans are placed ; 38° to 42° F. is perhaps best, but in no case higher than 45°. Four times as much loss in butterfat has frequently been known when set at 52° as against that set at 42°. It is thus readily seen that ice-water is absolutely necessary, except in some few cases, as where a cold spring is available, which may be made to run in and out of the tank con-tinuously. Lowering the cans into a well is very rarely satisfactory, neither is drawing the water and changing two or three times to be recom-mended; in fact, we never knew good skimming in such cases. To set in the open air in winter, or in snow, is not good; set in water always. The skimmilk should not show more than two-tenths of one per cent. of butter-fat in summer, nor more than three-tenths in winter. Eleven or twelve hours in summer and twenty-four hours in winter will raise all the cream if temperature is right; whereas, if the temperature is too high, greater length of time will not ensure good skimming. Draw off a portion of the skim-milk with the cream, as this saves a little n B. more butter-fat (skim-milk nearest the cream contains more butter-fat than that lower in the can) and the cream works better in the churn. The room where the cans are placed should be under the same roof as the ice, and if the churning is done here too, so much the better ; such a room, by a little skill, may be made almost perfect in its arrangements. An excellent storehouse may be made for the butter by building a small room in the ice-house, the door of which opens into the dairy; five or six feet in height and four or five feet square would be sufficient. A small coal or wood stove, at a cost not exceeding five dollars, will supply the needed heat during the winter months. The cream should be kept below 50°F. from time

MARCH



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Jan. 2 in its parts o the As The As ment, l School kind ir in pres ter co marke ciation Station ing th numbe The preser plums, the pop Valley Nonpa Emper size of yellow This cl fluence A colle by Pro Canad was th Prof. I which mens etc., w "Pe

been g creasin basket in lig shelter In spra be giv tender out tre come b varieti prover Crawf Rivers "M Faville view o last. differe by soil tated t adjace best.

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#### ROBERT WARK.

"Beautiful butter" can be made if the cows are allowed only a very small ration of turnips after they are milked, at first, gradually increasing the quantity. The milk was set in pans, and two or three quarts of ice cold, pure water put in the pan and the milk strained into it. The butter was beautiful; not the least unpleasant smell or taste of turnips was noticeable

#### S. M., Blackwood, Assa.

### The New President of the Dominion Short= horn Breeders' Association.

Mr. Arthur Johnston, Greenwood, lately elected President of the Dominion Shorthorn Breeders' Association, began breeding Shorthorns in 1867. Importations from Great Britain were commenced in 1874. Up till the present about 100 head have been brought across the waters by Mr. Johnston ; also about forty head of Clydesdales, and many Cotswold sheep and Berkshire pigs. Mr. Johnston has held the office of Vice-President of the Association, of which he is now the honored President, during the years 1893 and 1894. He has also been a member of the British-American Shorthorn Association and Dominion Shorthorn Association since their inception. During the years 1893 and 1894 Mr. Johnston was Vice-President of the Clydesdale Association, all of which indicate the esteem in which he is held among his fellow-breeders. He has done a great deal for the breeding interests of Canada, and we look for an era of continued activity in the Shorthorn Association during his regime.

The distribution of proceeds from 5,000 lbs. of milk to two different patrons, A and B, are in the two columns:

Pa	tron A.	Patron
Percentage of fat in milk	4	3
Lbs. of cured cheese per lb. of fat.	2.5	2.8
Lbs. of fat in 5,000 lbs. of milk.	200.	150.
Lbs. of cheese in 5,000 lbs. of milk.	500.	420.
Total amount of money to be divided-\$73.60.	0000	100.
Share to each patron, when divided by		
weight alone	\$36.80	\$36,80
Do., when divided by weight and value of		
cheese actually yielded	41.50	32.10
Do., when divided by percentage of fat in		01110
milk	42.06	31.54

A dispatch from Brighton, Mass., says : "There was a practical demonstration of the unreliability of tuberculin at the abattoir here. Ten of the animals of the lot condemned by the cattle commissioners as tuberculous were slaughtered, and of the ten, two were undoubtedly tuberculous. Four are in doubt, and suspected parts of their internal organs go to the chemist for the final decision. Four more were perfectly sound, and were released by the commissioners conducting the post mortems. They will be sold as beef, and full value will be paid to their owners. Consequently it is no surprise that the commissioners returned to Boston in a sober and thoughtful frame of mind, it being felt that tuberculin had "got a black eye."

The cream should be kept below 50°F. from time of skimming until time for ripening. Less exposure of milk and cream to the atmos-

Less exposure of milk and cream to the atmosphere; no sour milk nor cream in summer, with their attendent evils; more butter per hundred pounds of milk, and lessened labor, are advantages possessed by this system over the shallow pans. Be it remembered, however, that unless a temperature of  $45^{\circ}$ , or lower, be preserved during all the time of setting, the shallow pan will give better results than the deep can. The churning of deep can cream, making of the butter, etc., will be discussed in a later article.

Occasionally we meet very fine hedges of various evergreens, thorn. locust, Russian mulberry, etc., but alder and fancy hedges are comparatively scarce. We must bear in mind that this is a new country. People have been intent here mostly to get a home before they could ornament it. The hedges we find, such as Osaga orange, locust, etc.. have usually been planted with an eye to practical usefulness, as line fences, stock fences, etc., rather than for their ornamental feature. As the country grows older, more attention is being paid and will be paid to hedges for ornament.—[T. Greiner.

#### THE FARMER'S ADVOCATE.

## GARDEN AND ORCHARD.

#### Nova Scotia Fruit Growers' Annual Meeting. (SPECIAL CORRESPONDENCE.)

The thirty-first annual meeting of the Nova Scotia Fruit Growers' Association, held in Wolfville, Jan. 29th to Feb. 1st, was the largest-attended in its history; represented by members from all parts of the Province, showing the great interest the Association has awakened during the past year. The Association, by its thrift and careful manage ment, has established and equipped the Nova Scotia School of Horticulture, now the only school of its kind in Canada free to all, having over fifty students in present attendance in the regular and short winter courses, principally farmers' sons. This has marked an important era in the work of the Association. The establishing of an Experimental Station is to be a thing of the future, and is receiving the strong support of all the members, now

numbering nearly a thousand. The Fruit Display was of high merit, including preserved fruits, showing varieties of peaches, plums, cherries, strawberries, etc. The apples were the popular sorts, from the vicinity of the Annapolis Valley. Among the novelties exhibited were five Nonpareils, which had been top-worked on the Nonpareils, which had been top-worked on the Emperor of Alexandria, giving a large increase in size of fruit; form similar to Emperor, flesh of yellowish-white, keeping well at this time of year. This change was thought to be due chiefly to in-fluence of stock and scion, possibly fertilization. A collection of apples, from Ottawa, was exhibited by Prof. Craig, of such varieties as Winesap, Gideon, Canada, Baldwin, Wagner, etc., some of which it was thought would be of value to certain districts. was thought would be of value to certain districts. Prof. Faville exhibited a collection of insects with which the farmer has to combat. Numerous specimens of fungous growths, insect-infested limbs,

etc., were shown. "Peach Culture in Nova Scotia," by C. A. Patre-quen, of Wolfville, was the first paper. Peaches had been produced in Annapolis Valley for over seventy years, but only in recent years had they been grown properly. The industry was rapidly in-creasing. Peaches had been sold for one dollar per basket. Experience shows that peaches grow best in light, sandy loam; trees twelve feet apart, sheltered if possible; advised planting shelter belts. In spraying for insects and fungus, attention should be given to strength of solutions, as peach was tender. Yellows could be controlled best by cutting out trees. In his experience but little trouble had come by buds being killed when early, hardy-bud varieties were planted. Early Alexander had proven best in peach districts; next came Early Crawford, Hynie's, Surprise, Hill's Chili, Early Rivers. Budding met with success whenever tried. "My Lecture Tour."—An address by Prof. E. E.

Faville, of the Horticultural School, covered a review of his lecture tour of the Province in June last. He spoke of the peculiar adaptability of different localities for certain fruits, being controlled by soil and climate, local in its nature; this necessitated the growing of different varieties. In districts adjacent to coast, English varieties of apples did best. In northern portions tender sorts should be top-worked on hardy stocks. Russian varieties thrived best here. The same was true of plums, as to hardiness. Grapes, under glass, matured per-fectly and with profit; Black Hamburg and Black Prince had proved the best. Cranberries grow abundantly in the western counties. Hundreds of acres of bog land was ready to be opened up, com-England States. The Professor spoke of the needs of improvement in the industry, in spraying, market-ing, and handling of fruits; mentioning the impor-tance of pruning, thinning, fertilizing, and cultivation of orchards, placing upon the markets more No. 1 fruit. "How to Make Fruit-growing a Greater Industry."—A paper by Geo Thompson. He said that cap-ital was seeking investment in paying results. Prove that fruit-growing did pay, then the industry would increase. This could be done in several ways : by establishing canneries and cold-storage for preserving fruits so as to reach distant markets in first class shape. Produce first-class apples, thus securing prices that will be profitable to fruit-growers. Much of this advance depended upon careful study of soil and climate, mingled with scientific skill and industry. Haphazard work would not do in these days of keen competition in the markets of the world. Best methods of sorting and packing should be understood. Fruit-growers must become students. Journals, books, and Experimental Station work, together with practice, would cause the Nova Scotia fruit industry to become greater. Close Planting of Trees.—A talk given by Ralph S. Eaton, of Kentville, who advocated the setting of apple trees in rows, twenty feet apart and six-teen feet in the row, having standard varieties every thirty-two feet, alternate with early-bearing kinds, as Wealthy, Duchess, etc., coming into bearing earlier; removing them when they crowded the trandards having them when they crowded the standards, having taken crops from trees sufficient to pay for them many times over. This would also aid in fertilizing blossoms. The same could be done with plums, cherries and peaches. Soil must be rertilized highly. He had already planted some right thousand trees in this manner. He cited kamples in New Brunswick and Arkansas, where his plan had met with remarkable success ; though chards were yet young, they had borne double rops to other orchards of same age in their vicinity. (TO BE CONTINUED.)

## The Cauliflower.

#### BY FRANK GARDINER. This vegetable is generally considered a very uncertain and unprofitable sort, so that most gardeners leave it entirely out of their pecuniary consideration. Yet, where it can be grown, it usually returns a large profit, though the growing of a crop is attended with all the uncertainty incident upon investment in a lottery ticket. The culture is, however, increasing, as gardeners are making a study of the plant's requirements, and giving it the soil and handling it demands.

The cabbage, cauliflower, kale, broccoli and Brussels sprouts, dissimilar as they are, are derived from the wild cabbage (Brassica oleracea), which is indigenous to the sea-coast of Europe and Great Britain, from Norway to the Mediterranean Sea. In its wild state this plant is entirely destitute of a head, but the edible nature of its stems and leaves has been known for ages. Pliny knew it, but probably only in a semi-improved state; while Rullius, in 1536, refers to a cabbage with heads eighteen inches in diameter.

Of the development of the cauliflower, Vilmorin, an eminent French authority, says: "The sprouting or asparagus broccoli represents the first form exhibited by the new vegetable when it ceased to be the earliest cabbage and was grown with an especial view to its shoots; after this, by continued selection and successive improvements, varieties were obtained which produced a compact, white head, and some of these varieties were still further improved into kinds which are sufficiently early to commence and complete their entire growth in the course of the same year; these last named kinds are now known by the name of cauliflowers." But authors disagree as to which, broccoli or cauliflower, first originated from the wild plant. Vilmorin predicates his views on the coarser nature and longer season of the broccoli. That the cauliflower is an ancient vegetable is proven by the writings of Heuze, who says it was cultivated in Spain in the twelfth century. It was known in Egypt, Cyprus, Greece, and Turkey, in the early part of the sixteenth century, and the close of that century saw it cultivated in

England. The cauliflower is much more extensively grown in Europe than in this country, and with much reater success there; in fact, owing to soil and climatic conditions, a crop of cauliflower is raised with as much ease, almost, and with quite as much certainty as one of cabbage. Erfurt, Germany, is famous for the excellence of its cauliflower seed; the swampy land about the city is specially adapted to its cultivation, and great care is taken to produce fine heads. Water from the irrigating ditches is applied to the plants every day, and pains taken which would be impossible where labor is less cheap. Angiers, in France, sends forty car-loads to Paris every day during the season, and gardeners, in a good year, often net \$300 per acre from the crop. In the United States the consumption of this vegetable keeps so close to the supply that whoever can raise a good crop is sure of a good price. Suffolk county supplies the New York market, chiefly, and in 1889 the crop was worth \$200,000 to her growers, and the acreage has since been widely increased. The Chicage market seldom is adequately supplied, and the same is true of Philadelphia, Washington, Buffalo, Cincinatti and other cities ; while the pickle Bunalo, Uncinate and other cities; while the pickle factories may always be relied upon to take a pos-sible surplus, or discolored or malformed heads. But probably the reason of the good market is sim-ply that growers do not yet quite understand the details of cultivation, and as soon as these are known the surplu will fonce prices to a lower level the supply will force prices to a lower level. The intending cauliflower-farmer should look for a spot of strong, sandy loam. The chief requisites are fertility and moisture. Heavy clay and light are fertility and moisture. Heavy clay and light sand are unsuitable. Muck is often planted with good results. A virgin soil is especially desirable, as the growth is better than on any old land, no matter how well cultivated. The usual precaution, not to follow a crop of cabbage with another, is to be observed with cauliflower also. The land can hardly be made too rich, and barnyard manure, well rotted or composted, is best, though commercial fertilizers are useful to aid the formation of heads. As the original plant is a native of the sea shores, common salt is usually regarded as a help. One precaution is to be observed, – apply all fertilizers to the soil several weeks before transplanting. The easiest way of starting the plants is to sow the seed in the open ground, in drills, first preparing the bed by giving a dressing of commercial fertithe bed by giving a dressing of commercial ferti-lizer, and raking in a light coat of lime or ashes. Set the drill to sow thinly, for seed is expensive. Sow half an inch deep and firm the soil after sowing. A very important thing is to get the seed in while the ground is fresh, and cover before it dries out. It is usually recommended to cover the bed with cloth to prevent drying out, removing as soon as the seed germinates, and also at night. Trans-planting makes the plants strong and stalky, and is essential to success with early varieties; but for a late crop, by sowing thinly and thinning out, may be omitted.

#### New Fruits at Ottawa.

[Paper read by Prof. Jno. Craig, Ottawa, before the Ontario Fruit Growers' Association.]

## APPLES.

McMahan White.—From A. L. Hatch, Ithaca, Wisconsin. This variety has already been noted in the report of the Central Experimental Farm, and I would again draw attention to some of its merits as an apple of value for regions where Northern Spy, Ribston and Greening cannot be grown profitably on account of their inability to withstand the winter cold. It has proved, so far, a remarkably vigorous and healthy grower, free from many of the defects characteristic of varieties unadapted to this climate. It has borne moderate crops for the past two years. The fruit is large, smooth and attractive. Quality medium; season,

October to January. Scott's Winter.—From Doctor T. H. Hoskins, Neport, Vermont, U.S. This is an apple belong-ing to essentially the same class as the last, in regard to the locality in which it should be culti-vated. The fruit is medium to small handsomely vated. The fruit is medium to small, handsomely colored; quality medium, its acidity being very pronounced. As a keeping variety it excels. Sea-

son, February to May; for culinary purposes. McIntosh Red.-I mention this to emphasize some of its strong as well as weak points. Tree fairly hardy ; quality first-class ; appearance handsome ; season, that of the Fameuse, or a trifle later, but, like the Fameuse, it falls an easy prey to the apple spot fungus (Fusicladium), and no grower should plant it without first making up his mind to deal vigorously with the enemy.

Haas or Fall Queen.-Is mentioned, not for its value as a fruit—which is very slight—but for the use that can be made of it as a top-working stock. For this purpose it possesses many desirable qualifi-cations, and I believe it safe to say that Ribstons, Blenheims and Kings could be profitably grown on this, with possibly increased fruitfulness, in districts where they cannot be grown upon their own stocks

Winter Duchess has proven to be a handsome fall apple of fair quality, but will hardly compete with Wealthy, which comes in at the same season.

Salome is a much advertised variety from Illinois. The tree is a round-topped, fairly vigorous grower; hardy at Ottawa. Fruit medium to large, round, green, with rarely a blush. Mild, sub-acid in flavor. An apple without striking characteristics, but evidently a keeper.

Gideon. — From Peter M. Gideon, Excelsior, Minn., U.S. Of the same parentage as Wealthy; but more vigorous in growth, with larger leaves. The fruit is of the size of Wealthy, but much less highly colored. It holds to the tree better and may be considered nearly equal in quality. Where McMahan is grown this variety need not be included.

To attempt a descriptive list of all the Russian varieties which have fruited during the year would make an exceedingly lengthy catalogue, and, with our present knowledge, would not be of much value. A large percentage of the varieties in the test orchard have been seriously injured by blight during the past two years. Among the members of the Hibernal family, Cross, from Voronesh, Russia, and Romna are handsome fall apples. The fruit is large, coarse in quality, but valuable for cooking. They bear heavily and annually.

Longfield is making itself appreciated wherever planted, on account of its early and remarkably heavy bearing habits. English Pippin is of the

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(TO BE CONTINUED.)

same type and isoften confounded with this variety. Longfield is undoubtedly one of the best in quality of all the Russians. The fruit is medium or below in size; round, smooth and regular; yellow, with a bright blush on one side. The flesh is white, crisp, sub-acid and good. Under favorable circumstances as grown in the eastern part of the Province of Quebec, it keeps till March. As a home-use and near-market apple, it has great value. Like the Fameuse, it lacks the points which constitute the essential requisites for an export fruit. To obtain the best results the fruit should be thinned, as the tree is likely to over-bear.

Of the Russisn apples imported as scions by the Fruit Growers' Association, in 1890, I shall hope to make a report upon the fruit of many of these next year. Sara synap, one of the most noted winter varieties, fruited as a top graft the past season. The specimens secured were disappointingly small; of the shape and appearance of Ben Davis ; quality poor ; season, mid-winter.

#### PLUMS.

Of these, I wish to draw attention to a few varieties which seem worthy of special reference.

Hawkeye--(P. Americana). -- This has already been mentioned in a previous report to the Society, but no apology is needed for this repetition, as it is prov-ing quite equal to the task of making itself appreciing quite equal to the task of making itself appreci-ated. The tree is a strong grower, which is characteristic of the type, and a remarkably heavy bearer. The fruit is large, round, handsome, purplish red; quality fair. The skin is thick enough to allow of its being marketed in good condition. Season, the middle of September. It should be planted where DeSoto is thought desirable.

Stoddard -(P. Amerwana).—From C. G. Patten, Charles City, Ia., U. S. Answers to same general description as the last, but is somewhat later in ripening. Among the Russian plums which have fruited, two varieties so far are worthy of trial:

(1) Moldavka.—This was obtained from Prof. Budd, of Iowa, in 1888. The tree is a round-topped,

#### FARMER'S ADVOCATE. THE

fairly vigorous grower; shoots large, of a purplish color. It has not been injured by winter so far, as have many of the other varieties of *P. domestica* in the test orchard. Fruit large, one and three-quarters by one and five-eighth inches, oval and somewhat pointed; color dull, brownish-purple, covered with thick, blue bloom. Stem short, stout, set in a deep, round cavity; suture terminates in a protuberance on one side. Flesh greenish-yellow, moderately firm, juicy; mildly sub-acid; not highly flavored, but of fair quality. Pit medium size, oval, firmly attached to flesh. Ripe September 5th, 1894. Thus far it has not proved a heavy bearer. Early Red—(P. domestica)—From Prof. Budd.

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Tree of slow growth, twig slender, leaves small; hardy. Fruit medium size, oval, dark red, with blue bloom. Flesh greenish, firm, juicy; quality fair to good. Pit firmly attached. This variety has borne light annual crops for three years, and appears promising for the North.

#### CHERRIES.

I have to report in this connection that the trees of Koslov Bush Morello, imported by the Associa-tion, a portion of which were placed in charge of the Horticulturist at Ottawa, have proved hardy, but exhibit considerable variation in habit of growth and character of leaf and bud. A few blossomed last year, but set no fruit. A large number blossomed the past season, and some fruit matured. An examination of the blossom disclosed the fact that many of them possessed abortive stamens, which may account for the fruit setting very lightly. Samples secured were of small size, bright red, heart shaped; flesh soft and rather astringent; pit large; altogether, not promising so far. But it is not fair to base an opinion on first fruits. I may say that Dr. Charles Saunders succeeded in crossing this with other forms of the Morello, and interesting results may be looked for from this union.

eating fruit of Niagara or of the Rogers varieties, a bunch of Peabody is positively refreshing.

Secretary.—Produced by J. H. Ricketts, New-burg, N. Y. by crossing Clinton with Muscat-Hamburg. This variety yielded remarkably fine bunches the past season. Vine a weak grower. Bunch and berry medium size, the latter oval; skin moderately thick; pulp very meaty and of an exceedingly pleasant acid; seeds small, two or three in each berry. On account of its meaty character of flesh, it keeps well. This variety combines in a remarkable manner, in both vine and fruit, the good qualities of the European and American grapes. It is not likely to become commerical.

#### Mills.-Might be classed with the last.

#### RASPBERRIES.

As a market berry, nothing better among reds than Cuthbert has yet appeared. Gladstone, Sup-erlative and Beaconsfield, of the *Rubus Idueus* or European class, have fruited, but do not appear promising, and will no doubt remain in the amateur ist, on account of lack of productiveness.

Of black-caps, Older, mentioned last year, easily retained first place, both for productiveness and quality. The plant is also more easily kept in form han other members of this division.

#### STRAWBERRIES.

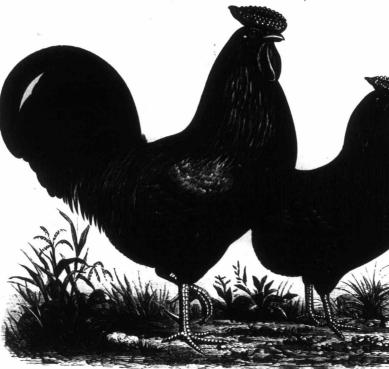
One hundred and ten varieties were tested this One hundred and ten varieties were tested this year. The following varieties gave the largest yields, and are named in order of productiveness: Crescent. Beverly, J.s. Vick, Warfield, Stayman's No. 1, Van Deman, Williams, New Dominion. Beder Wood, Haverland, Parker Earle, Bubach, Each variety consisted of a row sixty feet long. The highest yield was forty boxes and the lowest

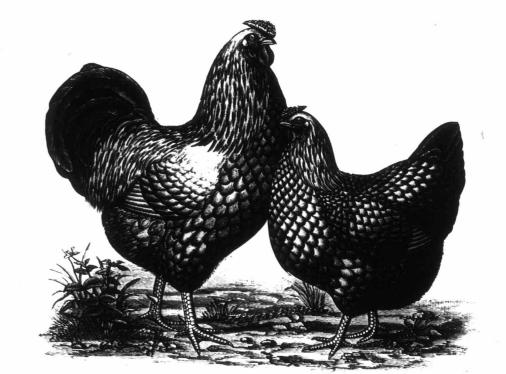
twenty-four, of the varieties mentioned. *Timbrell* gave promise of productiveness. It is early, of fair quality and moderately firm, but its

from a pen of five Red Cap hens, three and four eggs per day. It will be hard to find their equal in that respect, he thinks. They are one of the oldest English breeds, and in some parts of England are known by the name of Golden Pheasant. The male bird's standard weight is  $7\frac{1}{2}$  lbs., the hen's,  $6\frac{1}{2}$ lbs. In color they are nut-brown, with a black sparkle, and are very handsome in appearance. Mr. Daniels was very successful at the World's Fair, Chicago, winning on five entries as follows : 1st on pen, 1st on cock, 1st on hen, 1st on pullet, 3rd on cockerel. He has always been a great lover of poultry, and keeps ten or twelve varieties, including poultry, and keeps ten or twerve varieties, including the following: Black and White Javas, White Rocks, Derbyshire Red Caps, Laced and White Indian Games, Silver-Gray Dorkings, Buff Leghorns, Black Leghorns, Golden Wyardottes, and three or four varieties of bantams. Mr. Daniels has been Superintendent of the Poultry Department at the Industrial Fair, Toronto, for the past ten years ; he was also appointed Assistant Superintendent for the Ontario Government, for Poultry Department. World's Fair, Chicago,

#### Golden Wyandottes.

The accompanying illustration of Golden Wyandottes, the property of C. J. Daniels, Toronto, Ont., is from life. These birds are winners of many first prizes in Canada, and were also second cockerel and first pullet at Cleveland, Ohio, U. S. A., Dec., 1894. "I have been breeding this variety," writes Mr. Daniels, "for five years, and get more in love with them every year; in my judgment they are not only the beauty breed, but also have more of the good qualities that go to make up the general purpose fowl than any other breed. As layers, the Golden Wyandotte excel all other sitting varieties





MARCH 1, 1895

#### DERBYSHIRE RED CAPS.

#### GOLDEN WYANDOTTES. Prize Winning Fowls, the Property of Mr. C. J. Daniels, Toronto, Ont.

Most of the Russian and German cherries described in Bulletin No. 17 of the Experimental Farm, have realized our expectation in regard to hardiness and productiveness. The varieties specially recommended are being planted to a considerable extent. but would be more generally cultivated if the trees were easily obtainable.

#### SMALL FRUITS GRAPES.

The past season was one of the most favorable for the thorough ripening of this fruit which has occurred within a decade. Fungous diseases were not severe, and were easily controlled with Bor-deaux mixture. At the Central Canada Exhibition, held during the last week of September, 112 varieties were shown, of which number 75 were well ripened.

#### VARIETIES.

 $Farrell = \Lambda$  white grape, mentioned in the report of the Association last year, produced, in abundance, enormous bunches of fruit upon vines planted three years ago. The berries, which I said were small last year, were much larger this season; and while the fruit did not reach perfect maturity, yet it gave assurance of good quality. It should be tested in our best grape-growing districts.

Brilliant. Of T. V. Munson, a cross between Delaware and Lindley, is a promising red variety for home use. It does not seem sufficiently vigorous or productive for market; but our vines are yet young.

A seedling of Clinton, raised by J H. Peabouty Ricketts, is by no means a new variety, but is mentioned here with a view of dilating on its good points: If it has borne heavily, and has not been affected by mildew, though () a slight extent by Authrachose, (2) The fruit ripens every year, at Oltawa, and the berry holds well to the bunch 3) Bunch large, well shouldered ; berries medium black, oval : quality first-class, combining a hilv of 1 with a rich, vinous "layor. After wightly

The plant seems quite vigorous.

#### ENGLISH GOOSEBERRIES.

In closing this hasty review of the newer fruits, would like to call attention to a class of small fruits not new, but unfortunately overlooked. I refer to the English gooseberry. This has been a neglected fruit, partly on account of unadaptability to all soils, and partly owing to its susceptibility to gooseberrry mildew. Now that this disease can be cheaply prevented by spraying, and given a patch of clay or heavy loam, there is no reason and no excuse for slighting this luscious fruit, Gooseberries stewed, gooseberries in jelly and gooseberry tarts are all very nice in their way, but are not to compared with well-ripened berries in their natural state. Plant them on clay soil, where the snow lies deeply; spray, and reap your reward, which will surely come.

## POULTRY.

#### Derbyshire Red Caps.

The accompanying cut shows a pair of Derbyshire Red Caps, taken from life. The cockerel took first at Madison Square Gardens, N. Y., Feb., 1895; the pullet also took third, same time and place. They were bred by Mr. C. J. Daniels, Toronto, who was one of the first to import this breed from England, some ten years ago, and they are still his favorites ; he says their one object in life seems to be to lay "eggs for breakfast" in the morning. During the cold, cold spell, he found his house four below zero, and from one pen of seven Red Cap

very dark color is against it as a market berry. | and equal some of the non-sitting, laying most of their eggs in early fall, winter and early spring, when eggs are scarce and high in price, and the singlecomb varieties are suffering with their poor frosted combs. The pullets will commence to lay at five months old; they lay a medium size egg, brown in color. As mothers, the hens are very quiet and easily managed, they sit well and take care of their chicks, and in most cases start to lay again when chicks are from six to eight weeks old. The Golden Wyandottes are of good size; the standard weights are : Cockerel,  $8\frac{1}{2}$  lbs.; hens,  $6\frac{1}{2}$  lbs.; but I find they grow much heavier than that; the young cockerel in cut weighs  $9\frac{1}{2}$  lbs., and will still grow. The Golden Wyandottes are very tame and easily kept in range; a four-foot fence is all that is needed; but if given full range, will pick up most of their living by hunting and scratching for insects, etc. When dressed they show a fine, plump body with clean, yellow skin, with very few pin-feathers; their flesh is tender and juicy. A well-fed bird of this variety is fit for table any time after eight or ten weeks of age, filling out and dressing a finer and better carcass than their great rivals-the Plymouth Rocks. For the farmer they bring good profits, in furnishing a large supply of eggs, and as market fowls they also yield a good price, weighing very heavy for their size. A Golden Wyandotte will surprise every one with its weight, and mating early as they do, there is more profit in them as early market chicks. For the fanciers, no variety can furnish a more beautiful plumage, for who can conceive of a more pleasing combination than a pure, pullets was getting four and five eggs per day, and clear nut-brown, laced with a greenish black.

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## THE FARMER'S ADVOCATE.

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#### Dressed Fowls at Poultry Shows. BY J. J. LENTON.

Seldom, if ever, do we see fanciers raising their fowls with the intention of making their market qualities of high degree. All that they seem to think necessary is to have their birds correspond as nearly as is possible with the American Standard of Perfection. How often do we see a large, robustlooking specimen sacrificed for a much weaker one, simply because the latter conforms more closely to the standard in some minor points? True, some fanciers are beginning to advertise the laying properties or the great size of the fowls they keep; but how is it we so seldom see these specimens exhibited at our shows as "dressed poultry?" There are hundreds who visit poultry shows who do not know a good bird from a bad one in the show pen, but they "reckon" they know a good fowl when it is dressed. Many of these same people would willingly re-stock their yards with some good breed if they knew how they looked when dres or what kind and how many eggs they would lay per year. Now, if there were dressed specimens of the larger varieties on exhibition, these people could easily see for themselves; or if a dozen or two of eggs from the great laying varieties were shown with a placard on them testifying how many of this quality of eggs were laid by a certain number of hens during the year, it would be plainly evident "real thing" can make a far greater impression than any amount of talking.

The late Port Hope poultry show had a great display of dressed fowls; in fact, ahead of anything seen along that line in Canada before. It was a credit to the exhibitors, the show, and the whole Province. The specimens of chickens, turkeys, ducks, geese, etc., were large, well fattened and grandly dressed. It is not always the *largest* birds that attract the most attention. It is the most enticing to the epicure. It is almost useless trying to describe any of these specimens, but special mention might be made of some chicks of the Indian game-B. P. Rock cross-that weighed 133 pounds per pair. The manner in which they were dressed would make any one feel hungry, Now, fanciers, do you suppose farmers, who want something with market qualities, would care any more for your 94-point birds than these cross-breeds, if they don't weigh as much or dress as well? We know that every one likes a thing as near perfection as possible, and, therefore, will not the farmer feel more interested in the 94-"pointer" if he will dress as nice or nicer than any cross-bred. Fanciers could find good customers in farmers for their surplus stock if they would take pains to cultivate and breed more for useful properties.

## A Convenient Poultry-house for the Farm.

BY MRS. IDA E. TILSON.

W. H. Hudson, the naturalist, says (what we all will admit) that young birds have no instinctive dread of enemies, and, at first, take food readily from man; but fear is gradually taught them by their experienced parents, or, alas! too often, by man's own harshness. My fowls being familiar pets, lightens the work of marketing, feeding, or doctoring. Many are known by name, and have their individual traits, which draw out no little study and interest on our part. Indeed, we get much entertainment, as well as profit, from our untaxed property vested in hens. Though with the Institutes six weeks, last summer, my older fowls evidently knew me on my return, because they clustered round me as they were said not to have done by any one while I was gone. I have heard of a hen so tame that she made her nest under a loom used daily; and of another which laid in an open bureau-drawer Still another laid on a bed ; and one aspiring biddy chose the top of a bookcase As there are birds of various ages, appetites and dispositions in nearly every flock, the poulterer can best become acquainted with and regulate small groups. Just imagine the un-governed, unkempt mobs of 200 or 300 fowls, all running together, I have seen on some farms. Being often asked about the proper size of a flock, I say not over 50 fowls; and feel that is almost giving license instead of liberty, because a smaller number is really better. Often, the next request is for an apartment-house which will be cheaper than saparate buildings for the division of a flock. The most convenient double house I have seen has its ground plan below :

runs, designed for severe weather; D D are small doors leading to Y Y-yards where the fowls can be confined during garden-making. Although we give our flock free range, with little loss or trouble I admit that a garden, at its early stages, before seeds are rooted, would be benefited by having the hens retired to a respectful distance. By means of doors, S S and O, or gates, G G, the owner can let either one or both flocks have freedom of his entire premises, as he often does at suitable times. The one window in each room is above and higher than covered run and entrance to latter. The window is hung on hinges, which fit it for summer or winter use, at pleasure. On my visit, there was no wire netting over windows in rooms nor runs, but I advised it, as without, fowls are sure, sooner or later, to fly against and break the glass, and through unprotected open windows, owls and dogs may enter; but lath slats, often used instead of open-work wire, are too darkening. If the house were mine, I should try placing the movable roots across corners, on dotted lines, thus nearly facing both window and door, in either room. A front draft is generally safest, striking where the great organs are specially centered for resistance; one on the back is next, and poorest of all is a side current of air, which cools or heats one-half of body faster than the other half, and thus destroys equilibrium of the system. God's creation is so joined together, so evinces one mighty hand, that this, like many other things, is equally true for man. In some parts of Minn., tamarack poles are at hand for roosts, but I tried not to talk about them on the prairies, where only battens, with sharpness of edges taken off, are available. A former dealer in trees and shrubs, told me if tamaracks are cut in winter, when there is little flow of sap, the poles will not check. A sort of blue beech, growing along streams here, is hard and durable. In house above described, the roosts, shaped like frame of a table are bolted and hinged together, so they can be taken apart or swung up out of way. I have in one house, sharpened  $2 \ge 4$  pieces driven into the earthen bottom. With auger and chisel, a groove was made on top of each, and within these grooves rest fitted battens, which lift up and out when we wish to clean. Though the posts are stationary, we can thus go all round among them. Cross-pieces, slipped under leather loops, afford fowls a pa way from one perch to another, which reminds me that a punster, talking about the ground space per fowl, said each biddy certainly required a perch at

night. Saw - horses make very complete Proosts, if the braces 10 are put on inside, and serve as cleats for dropping boards. Or saw horses may themselves be groov ed, and serve as supports to receive other roosts. At one place where I found im-

movable roosts, it was said in justification, "The carpenter made them so;" but a carpenter is not a poultryman. Most of us have learned by sad experience that without some knowledge and directions on our part, things do not get properly done of themselves. An aunt used to say outside show and inside shabbiness often went together. All the biddies would gladly join her in asking for inside comfort rather than outside ornament, but outside neatness is not without effect on sales. More than once, people have told me they liked the looks of my houses and liked to eat eggs out of them. The owner of the diagrammed house is a drug-gist, who uses, to crack wheat for his chicks and grind their charcoal in, a discarded mill from hisstore. My father has broken wheat for chicks by running it through our family coffee-mill. When parched, as a lady suggested to me, it would go through still easier, and make a wholesome change. Could one get hold of a second-hand, large coffee-mill, such as used in grocery stores, he would have a fine thing.

January and took away all the straw that was there at the time. Can A recover any damages from B for this?

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[If B took more than his half of the straw, of course A is entitled to recover the reasonable cost of replacing upon the premises the straw wrong-fully taken. If, however, B took only his half of the straw, then, as it was the last winter of the tenancy, and A, we suppose, lost no value of the manure, we do not see that A suffered damage, and if he lost nothing, he, of course, can recover noth-ing. If however, A's term did not expire till the following season's crop was taken off, and he so lost the benefit of the manure, he would be entitled to

damages.] 3. "There was no agreement that B should have the right to do fall ploughing in the last fall of the term, but B did send a man immediately after harvest who ploughed up some pasture and who used a part of the stable and buildings on the farm, not-withstanding that A did object at the time. What are the legal rights of the parties as to this?" [B was a trespasser and should not have been allowed to do the work at that time and he is

allowed to do the work at that time, and he is liable for all damages A sustained by reason of it; and he should be compelled also to pay a reasonable amount for the use by him of the buildings, etc., during the time.]

#### SOLICITORS' COSTS.

SUBSCRIBER:-"A appealed from the rating charged against his farm as fixed by the Township Engineer for the construction of a drain acros several farms, and on the appeal the Judge advised a settlement, and the Judge's advice was acted on without him giving a judgment. Who will have to pay the costs of the solicitors for each of the parties

In the absence of any direction by the Judge, each party must pay his own solicitor's costs.]

#### FIXTURES

READER:--1. "A having sold his farm to B, has A, after the sale, the right to remove hay-slings, car and track,--the track being hung on hooks and not bolted to the building?

[Yes.] 2. "Can A, in such a case, legally remove a pump out of the well and take it away?

#### REMOVING CORNSTALKS.

[No.]

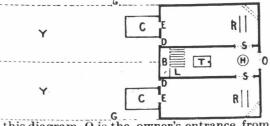
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SUBSCRIBER:-" A tenant by his lease, which is in writing, agreed not to remove from the farm any straw or manure. In the absence of anything further, would cornstalks be considered as straw?

#### Veterinary.

#### RESULT OF GARGET OF THE UDDER. W. W. EVERETT, Chatham:-"'I have a young cow three years old; calved five weeks ago, but one front quarter of udder seems to be shrinking away and gives very little milk. There does not seem to be any hardness or soreness, and what milk she gives comes easy. After her first calf she became very much fevered, and we had some difficulty with her udder, but it came 'round all right.'

[In heavy milkers it is the rule that the udder becomes enlarged, hot, and tender to the touch, and is known as one form of healthy inflammation; this passes off in a few days. Should it become bruised or subject to cold, it may pass on to another stage and become truly inflamed; this condition is known as garget or mammitis, and if properly attended, recovery ensues. When this process terminates in suppuration, then an abscess forms; in this case the parts were not so much destroyed, and in consequence absorption of the material took place, and we have what is known as atrophy—shrinking or drying up of the substance of the udder, and known as a blind quarter. In these cases very little can be done to restore the parts; constant hand-rubbing with some mild, stimulating ointment is the only remedy. DR. MOLE, M. R. C. V. S., Toronto.]



In this diagram, O is the owner's entrance from iside, and H, his oil heater; SS are two large, and doors which, in winter, let warmth into both ms, and particularly upon the roosts, marked this central hall has space for some barrels or of grain, at B, and a trap-door, T, which adto the cellar beneath, where their vegetables kept; a ladder, L, leads to the attic floor, on ich sawdust is now scattered, to make the ceilstill warmer, and where the owner thinks it be convenient to put things from time to as provided by the agreement, came on the first of

## QUESTIONS AND ANSWERS.

[In order to make this department as useful as possible, parties enclosing stamped envelopes will receive answers by mail, in cases where early replies appear to us advisable; all enquiries, when of general interest, will be published in next succeeding issue, if received at this office in sufficient time. Enquirers must in all cases attach their name and address in full, though not necessarily for publication.]

#### Legal.

#### DAMAGES.

"TENANT."-1. "A rented from B a farm on shares for two years. B was to have the use of onehalf of the pasture land; and he did turn in on the pasture a number of cattle; but when the pasturing was done B was dissatisfied and claimed he did not get his half. He was not, however, prevented from putting the number of animals on the pasture to use his half. Is he now entitled to make A pay him for the proportion of his share which he may not have got ?

#### No.

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2. "B was also to have the right to turn in seven head of cattle during each of the two winters, to use up his share of the straw, and A was to feed and take care of the cattle. The first winter B sold to A his share of the straw, and in the second winter B, instead of turning in his cattle to be fed

#### ABSCESS IN SHOULDER.

JNO. PAGET, Sundridge:-1. "I have a valuable horse which has bruised the centre of his off shoulder with the collar; it is now very sore. I have tried everything that I know off to no avail. What would be best to do in this case

[Well foment the parts bruised, with hot flannels, for three days, then have mixed by the chemist the following ointment: Biniodide of mercury, one drachm; lurd, one ounce; oil of origani, 20 drops; apply the whole of it around the parts after clipping off the hair, and in two or three days you will have an abscess ready to lance; make an opening into the softest part, and keep open until thoroughly healed by a pledget of cotton wool.

## DR. MOLE, M. R. C. V. S.]

#### INFLUENZA.

2. "There is a disease among the horses of this vicinity which commences like a cold, with cough and discharge from the nostrils. Horses affected with it become poor, and are easily played out. What would you advise as a remedy for the above?"

This disease presents itself in a variety of forms, and in many cases requires special treatment. Keep the animal warm and in a comfortable, loose box : give light, nourishing food: warm bran and flaxseed mashes, a few carrots, etc. Give the following draught: Solution of acetate of ammonium, two ounces; spirits of nitrous ether, one ounce; whiskey, four ounces; twice a day in half a pint of water. On the first symptoms of this disease stop the animal from work, or to the the animal does not recover. DR. Morte, M. R. C. V. S.] animal from work, or it frequently happens that

## THE FARMER'S ADVOCATE.

#### DEHORNING YOUNG STOCK.

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J. P.. Glencross:-"During the last summer I tried killing or stopping the growth of the horns on about twenty-four calves, with stick caustic potash. It was not a success; only about half of them are without horns. The potash does not take effect unless applied two or three times, which is very hard to do in a herd of wild cattle. A neighbor of mine sent and got a bottle of dehorning fluid, with no better success. I find the horns on the bulls harder to kill than on the heifers. I have a lot of last year's calves, some with two horns, some with one and some without any. 1. Can anything be got that will kill the horns every time with one application? 2. Will the horns grow out if cut close to the head on one-year-olds, and will they bleed much? 3. How is the best way to hold a beast while cutting off the horns? My cattle hook one another a good deal about the buildings and

yards, and have lost a great many." [1. "J. P." has not been thorough enough in his application of the caustic potash. We berewith give directions which, when followed, have made perfect mulleys: The hair should be closely clipped from the skin before the calf is eight days old, and the little horn moistened with water to which soap or a few drops of ammonia has been added, to dis solve the oily secretion of the skin so that the potash will more readily adhere to the surface of the horn. Care must be taken not to moisten the skin except on the horns, where the potash is to be applied. One end of a stick of caustic potash is applied. One end of a stick of caustic potash is dipped in water, until it is slightly softened. It is then rubbed on the moistened surface of the little button. This operation is repeated from five to eight times, until the surface of the horn becomes slightly sensitive, showing a disposition to bleed. The whole operation need take only a few minutes, and the calf is apparently insensible to it. A slight scab forms over the surface of the budding horn and drops off in the course of a month or six weeks, leaving a perfectly smooth poll.

2. From evidence at hand, it would appear pre-ferable to defer dehorning till animal is older. What say readers who have dehorned young stock? 3. To hold a beast while cutting off the horns,

place the head through a stanchion fitting the neck closely, draw the head forward by a rope attached to a halter, held by two men, after passing it through a pulley several feet in front of the animal. The head should rest on a box and be held The stanchion should have two crosssteady. steady. The stanchion should have two cross-pieces of iron bar, wood or rope, one to hold the neck down, the other up. Then proceed to work with the saw. If clippers are to be used, less secure holding is necessary. It may be done by tying the animal firmly to a post by means of a halter, with one man to hold the head steady by the nose and halter.]

#### Miscellaneous

#### OUT OF PLACE IN CLOVER SEED.

LOCAL SEED DEALER:-"I enclose you a few small seeds I have taken out of a sample of clover sent me. Will you tell me what they are, and if harmless or otherwise? I am acting for a seed house in ———, and am particularly anxious to know the names and character of all foul seeds." house in

[The seeds are of rib grass or English plantain (Plantago lanceolata), a plant imported from Europe, but now very common; and though not looked upon by some seedsmen as "very bad," yet must be considered as a weed.

2. "I see in one of your papers where one of the writers states that in heating cream for churning it should not be heated by hot air, but by warm water. What makes the difference?" [1. Before the spraying season opens we will

publish full directions for spraying fruit trees and bushes.

2. When the cream pail is set in a vessel of hot water, which should be from 105° to 120° Fahr, the cream will heat up much more quickly and more uniformly than if set on or near a stove, when perhaps the bottom of the vessel, or one side, will become too hot before other parts of the pail are warm.

#### GAS LIME.

FRANKLIN HORNER, Mimico:-" Please inform me through your paper as to using gas lime as a fertilizer, or other qualities that it may possess when and how to apply it?"

[Gas lime when quite fresh contains a large proportion of sulphide of lime, which is poisonous to plants, but on exposure to the air this takes up oxygen and changes into the sulphite and then into the sulphate, the latter being a valuable manurial substance. It may be put on the land fresh in the autumn, so that it will be oxidized before the crop is sown in the spring. As much as four tons to the acre may be thus used, though smaller quantities at short intervals are desirable. Besides its manurial properties, it is an insecticide, and has some slight reputation as a weed killer. It is also, of course, liable to kill the nitrifying organisms in the soil. Mixed with earth or waste vegetable matter, it forms good compost. It gives best results on stiff clay soils, while as much as three tons per acre may be spread directly on rough pasture land with benefit.

### CRANBERRIES.

Y. Z., Brookfield, N. S.:-"Can you give the required culture for cranberries on swampy land now growing young alders, grass, etc? Is flooding required in winter or summer? Why? Is sanding three or four inches deep quite essential? Where can good sets or seeds be obtained? Give time and method of planting. Will orchard grass stand the winters of Nova Scotia?"

The best soil and situation consist of peat and muck bottoms coated with pure sand obtained from adjacent banks, and the ground thus prepared to be capable of being flooded with clear running water at pleasure during winter, and thoroughly drained at other times. Muddy water running over the and rubbish must be cleared off, and the surface of turf removed with a hoe or other implement. It should then be provided with drains by clearing out the main watercourse and making parallel, open side-ditches at regular distances of about two The whole surface is then covered, from four rods. to six inches, with fine sand. An embankment or small dike should surround the whole to allow the plantation to be flooded at will. After sanding, the plants are set in rows from two to two and one-half feet apart, and 10 or 12 inches in the row. Flowing should be continued from December to May, which furnishes, among other advantages, protection from mice, etc., and early frosts. The plantation should be carefully kept clear of weeds for the first two or three years, after which, if well managed, the cranberry plants will cover the surface and render the labor comparatively light.

[We would recommend that "Y. Z." communiwith nurservmen in his own local seeds and sets. Orchard grass is a very hardy sort, and will stand much colder climate than that of Nova Scotia.

so much fertility as the peas. To take off a crop of peas would not have the same effect, as that crop usually goes down early, allowing all grass and weeds a splendid chance to flourish.

## SILO BUILDING.

INQUIRER.-" I would like to ask readers of the ADVOCATE, who have had experience with silos, their opinion of the following wall: Silo 13x15 feet, foundation concrete, studs rock elm, 2x8 inches, 18 inches apart, covered outside with inch pine lumber and battoned, lined with inch lumber, then a coat of tar paper, then a veneering of bricks plastered. Around the outside of the silo, half way up, is placed a timber 6x8 to stiffin walls inside. Also, if a silo were filled with cornstalks cut in 15inch lengths, would it keep properly and would the stock eat it as cleanly as if cut shorter? It is my idea to haul the corn to the top of the silo by slings, and cut up with hay or straw knife, thus saving the expense of engine, cutting-box, and men necessary to run them.

#### LICE ON STOCK.

F. HUGHSON writes us:-"For lice on cattle I use sweet oil, and it is a sure cure. The cheapest oil does its work well. One pint is sufficient for a cattle beast; applied around the head, spine, root of tail, and anywhere the lice are found. It is a sure cure and perfectly safe. It not only kills the lice, but also removes the scurf and leaves the hair nice and clean.

#### EFFECTS OF RAIN ON HAY.

JAMES MCCARTHY, Eastman's Springs:-"Please let me know in your next issue, to what extent timothy, or timothy and clover, suffers in food value by being rain-soaked two or three times before being stacked? Also the percentage of loss between hay stacked out all winter and that stored in barn?

[The extent to which grass or clover loses value by becoming soaked will depend upon the extent it has been cured when the rain comes. If freshly cut, soaking will harm it very little; but if fairly dry, very much of the most easily dissolved substances will be washed out and lost, but just how much cannot be stated. It will also suffer loss by becoming brittle, thus losing many of its leaves and heads. Its palatability will also suffer materially by being soaked—a very serious desideratum. If a stack is properly built, none except the outside will have received any more loss than if stored in a mow.

## APIARY.

#### Bee Culture in the West. BY J. GATLEY, AUSTIN, MAN.

In the FARMER'S ADVOCATE of Dec. 20th, Mr. Robinson, of Broadview, enquires if bees have been tried between Brandon and Regina. That I cannot answer; but as bees are successfully kept in different parts of Manitoba, near Winnipeg, Port-age la Prairie, Westbourne and Austin, I see no reason for supposing they would not do well near Broadview.

Any one examining the wild flowers of this country, by the sense of smelling, would very likely say they did not contain much honey. I have kept bees for five years in this part, and know that there is a large amount of honey in most of our wild flowers. In each of the last two years I have extracted between two and three hundred pounds of honey, besides sections of comb. In 1893, one sections, and in 1894 another gave me 40 full sections. I kept bees for 20 years in England, during which time there were only two seasons as good as every one here;—no need of feeding bees in this country. I think there should be 20 bee-keepers here where there is only one now. The kind I have are Ligurians, and are hardy enough for this climate. The bees I got to start with were in a "Jones" hive, which I found was not suitably for Manitoba winters, so I adopted the "Langstroth," in which they winter better and also give more section honey. I should like to hear the experience of others with bees, and their opinions of the honey-yielding plants. For my part, I consider golden-rod the queen of honey plants, almost equalling the purple heather of the Old Land. As farmers come to realize how they are exhausting the land by continually growing grain, I have no doubt they will grow white clover, which will give honey for bees, fodder for cattle and a good sod to plough under to enrich the soil.

a fe b h n

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#### PERMANENT PASTURE.

W. C. W. :- "Will you please to give me a mixture of grass seed for a permanent pasture; how will a mixture of meadow fescue, timothy, orchard grass, red clover, white clover and lucerne do? Would this mixture do to cut for hay the first crop? Please to answer in the ADVOCATE.

[As reported in the ADVOCATE of Feb. 15th, Prof. Fletcher, Central Experimental Farm, Ottawa, recommends for permanent pasture the following Timothy, six pounds ; meadow fescue, four pounds orchard grass, two pounds; June grass, or Kentucky Blue grass, one pound; with two pounds each of white, alsike and red clovers. Where the soil is deep, with a well-drained subsoil, he also recommends two pounds of lucerne. This mixture would make a good cut the first year, and provide a suc-culent pasture right through the summer season.]

#### TANNING HIDES.

DUNCAN ANDERSON, Arva:-"Would you kindly, through the columns of the ADVOCATE, let me know how skins are tanned (coon)?

[All fatty and fleshy matter should first be re-moved from the skin. For each skin take two ounces of salt, two ounces of alum and one-fourth of an ounce of borax; dissolve these in a pint of hot water, and when cool enough for the hand to bear, stir in sufficient rye meal to make a thick paste. This is spread thoroughly over every part of the fleshy side of the skin, which is then to be folded together lengthwise, and left for two weeks in an airy place. Then remove the paste, wash and dry airy place. Then remove the paste, wash and dry the skin. When nearly dry it must be worked and pulled and scraped with a blunt knife made for the purpose, shaped like a chopping knife; or with a piece of hardwood worked to a sharp edge. The more the skin is worked and scraped as it dries, the more pluiwill be.]

#### AND CREAM HEATING.

J. J. L.: secured a spray pump for the ld like to find out the best coming sease mixture for appl. so the amount of mixture required ?

#### SEED OATS.

ANDREW HALL, Ayr :-- "Could you inform me where I could get about 45 bushels of good heavy white oats? I have about 20 acres of clay loam which was single ploughed three times after the wheat was harvested. Please let me know which is the best kind to sow."

[Consult our advertising columns.]

#### DEHORNING. -JUNE GRASS.

JOHN TAYLOR, JR., Galt :- "1. We would like to try dehorning in spring. What advantages have the dehorning clippers over the saw? Will not the clippers shatter and injure the root of the horn more than the saw?

"2. We have a field covered with "June grass or wild grass; the land is in an excellent state of fertility. How can we best get rid of the grass ? What rotation of crops would be best? Do not want to grow a hoe crop on it : it is too far from home. Don't believe in a bare summer-fallow. How would it do to sow peas rather late in spring. working up ground thoroughly first, then plough them down before they ripen, and work land for wheat? Or if a heavy crop of peas were taken off would the "grass" be injured any?"

1. The dehorning clipper, if kept sharp and properly used, does its work more quickly and just as well as the saw, on all but very old catta, with which there might possibly be a risk of subinterine the bone.

2. It is new to hear of June grass giving the to eradicate where reasonably good cultivaria given. Where a hoed crope control eros. clovet. pres grown, a good rotation ower wheat, barley or oats, a be ploughed down in the ploughing under lates were worked in the spring, is the exenrich the land very much and areas buckwheat in same manner were smothering effect on the

Wintering bees in this climate will furnish matter for a future letter, if no one more competent than myself supplies it before October.

An interesting report on the counties of Ayr, Wigtown, Kirkendbright, and Dumfries, by Mr. John Speir, Assistant Commissioner, has been issued by the lioval Commission on Agriculture. A general idea of the condition of agriculture in those condies may be formed from this statement:-"In he districts visited by me depression certainly and greater or less extent, and both landlord have felt the pinch of hard times. In t, band has fallen more or less in value; my would lead the uninitiated to no farms on landlords' hands, idle, nor is there the least a farm of almost any kind. there are usually from ten l although sharp reductions ses met with, more especially still there is always more Cerers.'

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**A Priceless Gift** 

"Woman's love is priceless; The brightest gem I ween That earth has ever seen. One in its own completeness,— In its own identity, one; Sweeter than essence of sweetness, Creater than earth stars or sur-Greater than earth, stars or sur; Stronger, aye, stronger than death, High as the Heaven above. Such is a woman's love.

"Man's love is but a shadow Of that which she will bring To him she deems her king. His love is but an ephemeral dream— Hers an eterpity Hers an eternity. Man's love, the rippling stream,— Woman's, the endless sea— Watching incessantly, guarding so tenderly, Strong, pure and brave, lasting beyond the grave; Theu with a loving hand, Into that better land, Sharing our load, it leads us to God."

IN THE ARENA.

-Claver'se.

## BY HENRYK SIENKIEWICZ.

<section-header><section-header><section-header><section-header><text><text><text><text> but on a sudden a new sight strikes his or that man from death, but on a sudden a new sight strikes his eye-it is a picador on horseback. The picadors had stood hitherto on their lean horses, like statues, their lances peinting upward. The bull, occupied solely with the hated capes, had not seen them, or if he had seen them, he passed them. But now he has had capes enough; his fury seeks eagerly some body on which to sate his ven-gence. The bull lowers his head and withdraws a number of paces, as if to gather impetus; the picador turns the horse a little, with his right side to the attacker, so the horse, having his right eye bound with a cloth, shall not push back at the moment of attack The lance with a sharp point is lowered in the direction of the bull; he withdraws still more. It seems to you that he will retreat altogether, and your oppressed bosom begins to breathe with more ease. Suddenly the bull rushes forward like a rock rolling down from the mountain. In the twinkle of an eye you see the lance bent like a bow; the sharp end of it is stuck in the shoulder of the bull, and then is enacted a thing simply dreadful; the powerful head and neek of the furious beast are lost under the belly of the horse; his horns sink their whole length in the horse's intestines; sometimes the bull lifts horse and rider, sometimes you see only the upraised hind part of the borse struggling convul-stic bles upon him, and you hear the creaking of the saddle; horse, rider, and saddle form one shapeless mass, which the hoging bull tramples and bores with his horns. Those picadors whose horses have survived the defeat, the numps, and amid shouts, nimble banderilleros. Every on filtem in his upraised hand has two arrows, each an ell low ornamented, in accordance with the coat of the man, we albue, a green, or a red ribbon, and ending with abarbed

#### THE FARMER'S ADVOCATE.

point, which once it is under the skin will not come out of it. These men begin to circle about the bull, shaking the arrows. Stretching toward him the points, threatening and springing up toward him. The bull rolls his bloodshot eyes, turns his head to the right, to the left, looking to see what new kind of enemies these are. "Ah." says he, evidently, to himself, "you have had little blood; you want more—you shall have it!" and selecting the man, he rushes at him. But what happens? The first man, instead of fleeing, rust toward the bull—runs past his head, as if he wished to avoid him; but in that same second something seems hanging in the air like a rainbow; the man is running away empty-handed, with all the strength of his legs, toward the paling, and in the neck of the bull are two colored arrows. After a moment another pair are sticking in him, and then a third pair—six altogether, with three colors. The neck of the beast seems now as if ornamented with a bunch of flowers. At every movement of the bull, at every turn of his head, the arrows move, shake, fly from one side of his neck to the other, and with that every point is boring into the wound his neck to the other, and with that every point is boring into

the wound. If the bull refuses to attack the horses and has killed none, the enraged public rise, and in the circus something in the nature of a revolution sets in. Men with their canes and women with their parasols and fans turn to the royal box; wild, hoarse voices of cruel cavaliers, and the shrill ones of senoritas shout only one word: "Fuego! fuego! fuego!" (Fire, fire, fire !) The represe

senoritas shout only one word: "Fuego! fuego! fuego!" (Fire, fire, fire, in:) The representatives of the government withhold their consent for a long time. Hence "Fuego!" is heard even more threateningly, and drowns all other voices; the threat rises to such an intensity as to make us think that the public may pass at any instant from words to a mad deed of some kind. Half an hour passes: "Fuego! There is no help for it. The signal is given, and the unfortunate bull gets a banderille, which when thrust into his neck blazes up. The points wound in their own way, and in their own way rolls of smoke surround the head of the beast, the rattle of fireworks stuns him. In truth, cruelty can go no farther; but the delight of the public rises now to its zenith. The eyes of women are covered with mist from excitement; every breast is heaving with pleasure, their heads fall backward, and between their open, moist lips are gleaming white teeth. You would say that the torment of the beast is reflected in the nerves of those women with an answering degree of delight. Only in Spain can such things be seen.

#### "St. Kilda's Lonely Isle."

SIR,-In your issue of the 15th of December last saw a long paragraph from London Truth, subject: the above "Lonely Isle," an island in the Atlantic, to the west of Barra. This island is sixty miles north of Barra, and about forty miles west of North Uist and the Island of Lewis. The writer visited that "Lonely Isle" in May, 1860; the population was then about forty-five souls. They had a Gaelic schoolmaster, and lived happy and contented. It is true enough that they have no horses on the island, but I deny the statement that women do the horses' work." They give a helping hand to the men occasionally; they now work the ground with what they call Cas-chrom. It says "they are fairly well off, with tolerable houses and good food and clothes." I will say nothing about the food and clothes, but the houses in 1860 were most miserable hovels, thatched with turf: clay or sandy floors, and a hole in the middle of the roof for ventilation. I am glad to hear that they have improved since then. There were about 500 sheep on the island, then all common property, The houses were built in a group-all the people working together in unison like one large family. Moreover, they are God-fearing people and good-living people in their way. Some of the sheep are of indigo color, some croddle color, and some gray. It is the greatest place for sea birds in the known world. Natives sell the eggs and feathers to summer traders and use the birds for food. I saw handlooms in almost every house, and on making enquiries, found that the women did the weaving They had what they used to term the "thickning frolics," which were of a very simple nature, one girl singing the verses of a *Gaelic* song and others singing the chorus. I saw their winter mail carriers, a letter-box, shaped like a weaver's shuttle, and sea-worthy; this they cast into the sea when the wind is to the mainland. Sometimes it is found on the shores of Long Island, but generally on North Uist. The people are very fond of their own "native isle" and would not like to leave it. I have heard that they pay rent to Lady Mathe-son, proprietress of the Island of Lewis. Tradition has it that this "Lonely Isle" first inhabited by a young couple who, in the month of May, 1700, went out cod-fishing from some place remote from the Island of Lewis. A southeasterly storm came on about noon, with high winds and rain, and they got ashore on the rocky isle barely with their lives, the rocks smashing their tiny craft a few minutes after they landed. The prevailing names I have seen were McCrim-mons and McDonalds. There is a man named Mcmons and McDonalds. There is a man named Mc-Donald from St. Kilda, in Dundas, P. E. I.—the boys call him "Malcolm Kilda." He was taken from "St. Kilda's Lonely Isle" by a gentleman from the "Isle of Skye" as a herd-boy, and from thence emigrated to Prince Edward Island. I was speaking to him about his native isle some time ago, but he could not recollect anything about it, being too young when he left it. I have some more inter-esting details about this "Lonely Isle" which I shall be glad to communicate at a future date. Dunstaffnuge, P.E.I., Jan. 22, 1895. J. A. C.

## THE QUIET HOUR.

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#### Making the Most of Life. WORDS TO YOUNG MEN.

Now, being such as we are, we can make things. We can shape things. We can do things. We are not forged links in a chain of irresistible destiny. We are The mysterious "I," with its will, and its somewhat of imparted divine nature, is a power that must be taken into account. And the appeal to the "I" of each one of us is a proper one, to make the most of We are not alone to be acted on by things, life. and be made; but we are to act on things, and make. In a good and true sense, therefore, we may make the most of life when we make the most of ourselves. Not, of course, when we make the most of ourselves for self's narrow sake, but for the nobler self's sake, that its power may avail the more to the glory of God and the good of men.

Life is more than our own existence; and more than our present experience. No plan for making the most of life should leave out of view other people, or the life to come after death. Other people, indeed, evoke and build up to its best our own life. It is easy for any one to note how mean and barren is that spiritual life which is busied only with its own deliverance in safety, and its own exaltation unto ecstacy. This world, as things go, may be accounted old and bad, but it is neither so old nor so bad as not to greet with warmth self-sacrifice for the good of others. Build yourself up into splendid condition, young men, —physically, mentally, morally, spiritually. You have a right to do so. You ought to do so. Then pay yourselves out for the good of others, —wisely, patiently, steadily, sturdily. Consider how one can amplify and perperpetuate one's life through the lives of others. Spiritual forces go forth from one to shape the lives of others for good or bad. And so one man's life is projected into and multiplied by a multitude of other lives. If the influence of your own life be for good, this mode of multiplying it is a sure way for good, this mode of multiplying it is a sure way of making the most of life. You need not con-sciously be setting yourself up for an example. You need not say, "See how good I am;" or, "Come, now, I beg you, be like me." You need not poise yourself conceitedly for the central figure and tell the radii to run out, the messengers of your greatness, to the listening cir-cumference. You would spoil it all were you to do so. Only be kind and true yourself; and then, without your ever knowing it to the full, and long without your ever knowing it to the full, and long without your ever knowing it to the full, and long after death has hidden you in the grave, others shall in blessed fashion be making the most of life for you and from you. The mighty power of uncon-scious personal influence! It is like the never-ceasing force of gravity. Make it at the centre good, and it shall go forth in ever widening circles to bless the world. Young men of America! Our country calls on you to be such central forces of truth and kindness. Balls calling to union ring false or and kindness. Bells calling to union ring false, or jangle out of time. Interests clash. Selfishness waxes hard. The constitutional remedy is truth and kindness believed in, held to, acted out. Your country asks you each one to be a centre of truth and kindness. So you may do much for her. So you may find one way of "making the most of life." Furthermore, "life" is not limited to this earthly existence. The grave is not the end of it. When one counts the "most" to life then the stretch of the count must be far off into the life eternal. We are in training for another mean failure there. The child with plenty of candy and rattling toys may seem successful and happy. the may be really unfitting himself for the robust duties of later life. Failure here may win, by God's grace, success there. Often dying martyrs "make the most of life" rather than hard-fighting, living leaders. To make noble character is to "make the most of life," for character shares in the indelibility of the eternal. Often failure strengthens character. Quite as often success weakens it. Bishop Smythies, opened-eyed and stout-hearted, went in his Master's service to face the deadly malaria of Central Africa. He failed and died, you say. Died, yes. Failed, no. A Te Deum and not a Miserere the great sea chants over him while holding safe his body unto the resurrection morn. Loyalty to God means unworldliness, I have no doubt, but not unmanliness and laziness. 'When you put off the old man," says Spurgeon, "you need not put on the old woman." To be a Christian is to be a soldier and servant. A soldier is ready for duty, a servant goes off cheerily to serve. If God makes you a hammer, strike hard; if an anvil, stand steady. If he appoints nettles in your path, grasp them strongly, for so they do not sting. Play the man. The Holy Ghost is within you to guide. Heed His voice. The Lord Jesus Christ is on high to help in the sympathy of His full humanity. Lift heart and eye to Him once and again. Then on to do that is to do what any man may dare and do that is right and true for Him and for fellow-men. Life is a mystery. Quite as much so as is death. It is a tangled yarn of good and ill together. You can make much of it by cultivating self, but not for self's sake. You can make more of it by losing your life in the saved lives of others. You can your life in the saved lives of others. You can make most of it by faith. Faith in God. Faith which is not lazy, but works. In the swift sweep of your life into the past, you can make most of it by giving the reins to God the Holy Ghost, who is near you and beside you, and if you will, within you abiding. [From St. Andrew's Cross.

Men who are everything by turns and nothing long may possess even more than average ability, but they never make life a success. As "rolling stones gather no moss," neither do these shifty creatures add any power to their character or wealth to their store. They are respectable tramps, always on the move from one vocation to another, often waiting, like Micawber, for "something to turn up.

"Holiness depends less upon what we do than on how we do it.

#### FARMER'S ADVOCATE THE

### THE SOCIAL CORNER.

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Under this heading, communications relating to the home or any subject of interest will be published and questions answered. MINNIE MAY.

DEAR MINNIE MAY,—Through the medium of your columns I would like to say a few words to those whose homes have been shadowed by the Angel of Death during the year that is gone. Parents frequently mourn too long for the child hat has been taken from them, and thus cast gloom over those that remain. This is not duty a tender remembrance; but to those whom we have still with us we owe much more. The Presi-dent of the Order of King's Daughters speaks thus on the subject: "We have no more right to be selfish in our grief, in our bereavement, than in anything else. We show our true love for those who are not in our sight by being more tender, more considerate, more thoughtful for those who remain.... Should we not try to bear our loss, and turning to this sad, suffering world, say to ourselves,

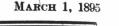
"And then, taking our sorrow as a sacred trust to be used for Him, go others have their sorrows, and their sorrows may be much deeper than ours." When death has stilled the heart of a loved one, it is foolish to ertol that one more than all others, and speak as if life were no longer worth living, or, as Will Oarleton says, "as if the others were of no 'count at all." Shake speate has said: "That which we speare has said: "That which we have we prize not to the worth the whiles we have it, but being including lost, why then we rack the value." Of course, we nat-urally feel deeply grieved at the loss of a friend, but let us "prize to the worth" those who are left, so that should we survive them also we shall have nothing with which to reproach ourselves. "SERIOSO."

DRAR MINNIE MAY, - Is the Social Corner intended only for the thrifty housekeepers, or may the younger folks drop in for an occasional chat? I want to ask your opinion on the propriety of a re-mark I recently heard a young lady make. In speaking of a cer-tain young man, she said : "He wanted to marry me, but I would not have him." Was it lady-like to make such a remark? Did not the speaker violate confidence in not keeping secret what was supposed to be for her ears only? Are we at liberty to discuss such subjects in the Social Corner? BECKY SHARP.

## An Unequal Struggle.

FROM THE ORIGINAL PAINTING BY G. GUZZARDI.

Unequal, but, happily, not angry or sanguinary —unless, indeed, undesignedly, in the accidents of the scuffle, a little of the blood of the cock, which the buxom lass is seeking to protect, should be made to flow. Evidently the young man has no serious designs on the life of this feathered pet, though it is not at all unlikely that he may have such designs on the damsel's heart. We may fancy the situation. The girl is feeding her pet, when the young man, partly in the spirit of mischief, and partly moved by an undefined purpose to make himself an object of interest, suggests abruptly: "Suppose I should kill your chicken, what then?" "But you won't," is the quick rejoinder; "you wouldn't dare to; I wouldn't allow you to do it." "Ah!" says the young man, "you wouldn't allow me, eh? I won-der how you could help it, if I chose to carve it with my sword. I have a mind to do it; yes, I will,-so here goes!" And with that he whips out his sword. Instantly the girl seizes the fowl and throws her-self into an attitude of defiance and of defence. The young man advances with glaring eye, but not a very alarming aspect. He makes a pass at the



## THE CHILDREN'S CORNER.

All communications to be accompanied by the name, age and address of the writer. A prize will be given in July for the best short story or letter. The writer must be under age. All communications should be accompanied by the name, age and address of the writer, and addressed to "Cousin Dorothy," FARMER'S ADVO-CATE, London, Ont.

## The Jewel Princess.

(Continued from page 77.)

One day, when she was sitting in her gorgeous palace bower, whose beautiful luxuries she could gaze on no longer, she sighed deeply, when a voice close by her ear exclaimed :

"Princess, why are you so unhappy?" "Who is it that speaks to me?" ans answered the Princess, turning her brilliant but sightless eyes in the direction of the sound.

'I am only one of your Highness's poor parrots," replied the voice, "but I grieve over your affliction, and would remedy it if I could.

"What can you do, pretty parrot?" inquired the Princess languidly.

"I can advise your Highness to take your godmother's sage admonition more to heart," replied the bird.

"Foolish parrot!" cried the offended Princess, "do you take the side of my enemies? Here, Scabia, Primula, chase him from the room, and pluck out his tail for his insolence !

The parrot fled, screaming, from the attendants, while the Princess once more sank back in her downy cushions, and meditated on the idea of a new perfume. When she en-deavored, however, to direct her waiting-women how to prepare it, to her great horror she found she could not speak distinctly, for her lips and tongue seemed to refuse their office. The maids of honor, thinking she was really ill, once more summoned the snuffy old doctor, in whom, from their pre-vious experience of his skill, they had great faith. He looked at the unhappy Princess, examined her mouth, and then shrugged his shoulders and took a large handful of snuff.

"My good ladies," he said, "I dare say your admirers have often compared your lips to coral, and you have listened to them with pleasure. I have the honor to tell you that her Highness's lips and tongue are as real, veritable coral as ever came up from the bottom of the sea!

The unfortunate Princess could not utter her rage at this opinion; so, to vent her passion, she took up the golden footstool and flew after all her attendants, guided by the sound of their voices, aiming a violent blow where she heard the old doctor's puffy grunts as he ran away. Her state was now sad in-deed-dumb and blind, although lovelier than ever. Her father had, at first, lamented over her with tender, pitying caresses, but this made the Princess so angry that he now never dared to come near her. So he had a golden gallery erected at the end of the long audience hall, from whence he could behold his fair child without being too near her. But the proud heart of the Princess remained undaunted by all these terrible warn-ings; indeed her spirit rose more stormily after each punishment. One morning, on awakening, her mai dens found that she was deaf to all their inquiries, and on looking at her ears, being now somewhat used to these strange changes, they found that they had become delicate shells lined with mother-of-pearl. It was a sad sight to see this fair woman lying on her grand couch,-sightless, speechless, deaf-and yet her eyes sparkling and her red lips parting as if with the very words she would utter. As they were all weeping around her, and the aged king, tearing his gray hair, was trying to make her hear his loving words,—with a loud clap of thunder the fairy appeared. "O King!" said she, "I warned your daughter long ago of her folly and its punishment; but, although she slighted all my warnings, I will give her one more chance.



The Social Corner, Miss Becky, as its name implies, is open to all, and "the more the merrier." It was certainly very rude of any woman to make such a remark, and no lady deserving the name would have done such a thing. To re-reat the gentleman's identity was a gross breach of confidence. Be the young man who asks a woman to marry him rich or poor, accept-able or otherwise, the honor is just as great; and if she were not lacking in true womanliness, she would respect his feelings enough to keep such a matter private.]



AN UNEQUAL STRUGGLE.

"A COUNTRY GIRL."-There is not the slighest occasion for you to present an untidy appearance, even if your drive to town is such a long one. If you object so strongly to veils, you should wear a fine net over your fringe; they are now sold large enough to cover the whole top of the head, and are so fine that if you are careful to get one the same shade as your hair, it will be quite invisible.

DEAR MINNIE MAY, As stained floors seem to be fashionable, I will give simple directions by which a pine floor may be stained cherry or black walnut color. If the floor be new it will require only dampening; if old, it needs a thorough scrubbing and rinsing. For cherry stain, which is the prettier, dissolve one package of terra-cotta dye in one and a half pints of water, and apply boiling hot. by means of a swab of soft cloth or a sponge, When dry, variation with equal parts of boiled linseed oil and turpentine applied warm and well rubbed in. For Salnot this use one package each of cardinal, share and one dyes, dissolved in three pints of water and southed as the other.

chicken, which the girl thereupon swings behind her with one hand, simultaneously throwing out the other to push the assailant back. The said assailant, of course, grasps that arm firmly, and proceeds vigorously with his avowed purpose of slaughter. The girl is game and will make a resolute resistance. The combatants may have to come into vet closer contact ere the struggle ends, from which necessity, should fate decree it, the young man surely will not shrink. Thus far the girl is not much alarmed; but the armed foe will probably maintain the assault till her apprehensions are excited, till she pleads, and, it may be, angrily threatens. Then he will relent, and protest that not for the world would he hurt either her feelings or her chicken; nor will he leave her till she forgives him. And the only way the girl can get rid gives him. And the only way the girl can get rid of him will be to give him the required assurance. So, after all, this "Unequal Struggle" may be but a little episode in the "old, old story,"—in which case it isn't so "unequal" after all.

The artist has given us a spirited picture, truthful and piquant in expression, and pleasing by its simple, harmonious accessories and its beautiful treatment of light and shade

So saying, the fairy laid her hand on the heart of the Princess, and touched her eyes, lips and ears with the wand she bore in her hand

"Princess!" cried she, "will you repent of your purposeless, vain life, and return with me to learn a higher, nobler course, that will fit you to rule your country in you lifetime, and embalm your memory in your people's hearts when you die ?

"Godmother," replied the foolish Princess, with difficulty, "I told you I could not bear the idea of your solemn court. Only give me back the use of my tongue and eyes—I don't care for the rest, and I shall be quite satisfied. I should like to have one

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#### THE FARMER'S ADVOCATE.

UNCLE TOM'S DEPARTMENT.

look in the glass to see what my diamond eyes look like—and if they are really as bright as every one says,—and whether my teeth are indeed real nearls." pearls.

"Vain and foolish creature!" cried the fairy, sternly, "take your long-earned and well-merited punishment, of which you have been so terribly and repeatedly warned, and warned in vain ! And do you, oh weak-minded King, with your frivolous court, behold to what end your idle folly and vain purpuits have led on who should have been your pursuits have led one who should have been your brightest ornament."

So saying, she touched the Princess once more with her wand, and she became still and motionless. The brilliant eyes gleamed with all the lustre of life, the parted, coral lips showed the pearls within, and the heavy tresses of real golden hair fell round her almost to her feet. But the breath of life had left her, and the fair body, changed to a statue of spotless alabaster, remained a perpetual memory of the vain Princess

In the silver hall of a thousand mirrors, on a pedestal of bronze, adorned with golden scrolls, still stands that beautiful image of snowy alabaster, enriched with precious jewels, and with the golden hair flowing round it like a fountain. And as the citizens of the Island of Perpetual Pleasures sit at evening under the palm trees and cedars, they tell their children the terrible story of the Jewel Princess, her foolish and unconquerable vanity, and her dreadful fate! F. F. BRODERIP.

Well, children, you see It is better to be Contented with what you have got ; For you must confess That the Jewel Princess A valuable jewel is not.

Her eyes may be bright— Yet useless for sight; What good are such eyes, do you think? Red coral her lips, Rich dainties she sips, Yet tasteless her food and her drink.

Her beautiful ear Must feel rather queer,— I don't think you'd like to exchange. The features are best The features are best, Which, put to the test, Are useful, and not quite so strange. COUSIN DOROTHY.

You Can Never Tell. You never can tell when you send a word— Like an arrow shot from a bow By an archer blind—beit cruel or kind, Just where it will chance to go. It may pierce the breast of your dearest friend, Tipped with its poison or balm; To a stranger's heart in life's great mart It may carry its pain or its calm.

You nover can tell when you do an act, Just what the result will be ; But with every deed you are sowing a seed, Though its harvest you may not see. Each kindly act is an acorn dropped In God's productive soil ; Though you may not know, yet the tree shall grow And shelter the brows that toil.

You never can tell what your thoughts will do In bringing you hate or love; For thoughts are things, and their airy wings More swift than a carrier dove. They follow the law of the universe— Each thing must create its kind; And they speed o'er the track to bring you back Whatever went out from your mind. -Ella Wheeler Wilcox, in Munsey's Magazine, Feb., 1895.

MY DEAR NEPHEWS AND NIECES :-

Did you think Uncle Tom was playing Rip Van Winkle last month, and had fallen asleep and for-gotten you? Or did any of you miss his letter from its accustomed place? Well, at any rate, I had my chat with you before the month was over, and to make amends for that omission I am writing again in this issue. Quite a long time ago—more than a year, I think—I had a talk with you about hy-gienic matters, and promised to continue the subject, but I have always so many things I wish to say to you that I have totally ignored it. It was brought to my memory again by a query I saw in a recent paper about Sandow, the strong man. How one admires physical strength such as this wonderful man possesses 1 And be talk us we may wonderful man possesses! And he tells us we may all possess it, and by very simple means. To quote his words: "My plan is so simple that a child may easily understand it. About the only exercises I advocate are practice with dumb-bells and walking. I do not believe in gymnasiums as generally conducted. I walk a great deal myself; and I also recommend cold baths, of which I take two every day. He has lifted 5,800 pounds in harness and 3,800 pounds without any artificial aid whatever, and says he has never fully tested his strength. He says the average man may not only become an athlete, but even acquire strength as great as his own, and that many diseases, particularly those of the heart and lungs, may be much relieved by a course of such treatment as he recommends. The late Emperor of Russia and the Prince of Wales were both pupils of Mr. Sandow.

Now my girls are saying : "Dear me! what do we care about the strong man and his methods?" to blame if they de But wait, my dear girls! Where is the member of stylish appearance. the fair sex who does not wish (and excusably, too) to be beautiful? Health and physical beauty are more nearly synonymous than we are accustomed to think. The Greeks were intense admirers of to think. The Greeks were intense admirers of physical beauty, and appreciated the fact that health is one of its prime conditions. To attain a good development of the muscles, physical exercise must be taken. The athletic trainer tells his pupils that temperance in all things is necessary for even a fair degree of physical development; he insists upon regularity in exercising, eating and sleeping. This is especially important in youth, when not only are habits forming, but the foundations of future good or ill-health are being laid. And let it be remembered (girls, attention here !) that the means by which health is attained are the same means by which one's personal appearance is best improved.

So now, my dear boys and girls, who have the bright, invigorating country atmosphere in which to exercise, there is no reason why you may not be physically strong and beautiful. As to mental beauty, we have often discussed the matter, and in this respect I think the boys and girls of Canada, and my nephews and nieces in particular, would not suffer by comparison with any of their neighbors. The "strong man" did not mention anything about skating or coasting, but I'll prescribe a fair share of that on my own responsibility, as I consider it quite safe to indulge in them in connection with other exercise. And you must make the most of the pain immediately.

your time now, for old Sol is beginning to assert his your time now, for our sorts beginning to assert ins rights quite forcibly, and the opportunity of doing so will soon be past, as Whitcomb Riley says, "Ef you don't watch out." And keep wide awake, too, or some fine day soon you'll hear the exulting cry, "April fool." But by that time I hope you'll have another visit from your loving--UNCLE TOM.

#### Puzzles.

1-A GAME-BAG'S CONTENTS. A hunter returned home, after a day's sport, with the following collection of animals: 1, a weight; 2, part of a chain; 3, habitual indolence; 4, a greedy person; 5, a cross woman; 6, a dark color; 7, to endure: 8, a greater quantity; 9, a mound. What were they ?

2-SOUARE WORD. 1, land belonging to a nobleman ; 2, before ; 3, observes ; 4? public ; 5, relys.

3-ENIGMA. Without me man is altogether vile, And mean, and spiritless, you'll own ; Yet that which makes him worthty to be loved, The very moment that he loves, is gone. 4-DECAPITATIONS.

I am a robber on the sea— Behead me, I shall furious be,—" Again, behead me, and a price You fix upon me in a trice. Now, of my head once more bereft, I'm swallowed up—there's nothing left. 5-EASY REBUS. STAND TAKE 2 TAKING I U C THE

## Our Library Table.

Our thanks are due to our N. Y. contemporary for a copy of "L'Art de la Mode," which we were much pleased to receive. With such a guide to fashion, our American cousins have only themselves to blame if they do not present an effective and

According to the student, the nine longest words in the English language are as follows:-Subconstitutionalist, incomprehensibility, philoprogenitiveness, honorificibilitudinity, anthropophagenenarian, disproportionableness, velocipedestrianistical, transsubstantiationableness, proantitranssubstantiationist.

SIMPLE REMEDY FOR EARACHE.-" I am afraid I have greaty interfered with my own practice " said a celebrated aurist, "by giving the following advice to many of my friends. At the first symptoms of earache let the patient lie on the bed with the painful ear uppermost. Fold a thick towel and tuck it round the neck; then with a teaspoon fill the ear with warm water. Continue doing this for fifteen or twenty minutes; the water will fill the ear orifice and flow over the towel. Afterwards turn over the head, let the water out and plug the ear with warm glycerine and cotton. This may be done every hour until relief is obtained. It is an almost invariable cure and has saved many cases of acute inflammation. The water should be quite warm, but not too hot." A better remedy is to drop a warm drop of molasses in the ear. It will stop

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## Farmer's niums 1895 USE Advocate V

## FLOWER and VEGETABLE SEEDS, ROSES and BULBS:

Balsam. Candytuft. Convolvulus. Marigold. Mignonette. Nasturtiums (tall). Pansy. Petunia. Phlox. Portulaca. No. 1— **FLOWERS** Sweet Peas. Verbena Zinnia.

Beet (blood turnip). Cabbage, Sure Head. Carrst, Early Scarlet Horn. Cucumber, Impr. Long Green. Cucumber, Cool and Crisp. Lettuce, Prize Head. Melon (Musk), Surprise. Melon (Water), Phiney's Early. Onion, Globe Danvers. Parsnip, Hollow Crown. Pumpkin, Large Cheese. Radish. Scarlet, Olive-shaped, White-tipped. Squash, Hubbard. Sage. Tomato, Beauty.

ROSES Anna de Diesbach. American Beauty. Coquette des Blanches. Gen. Jacqueminot. Mrs. DeGraw. Marchioness of Lorne. No. 3-BULBS. BULBS.
White Callas.
Spotted Callas.
Gladiolus.
Cannas. Crozy's.
Cannas. (I Mad'me Crozy).
Begonias, single, tuberous-rooted.
Caladium Esculentum.
Cinnamon Vine. ROSES BULBS

grand chance to obtain EGGS FOR HATCHING from prize-winning fowls

No. 2—

VEGETABLES

A sitting of eggs from either of the following breeds, from the famous pens of Mr. C. J. Daniels, Toronto: Black and White Javas, White Rocks, Derbyshire Red Caps, Silver-Gray Dorkings, Buff Leghorns, Black Leghorns, bew subscribers, accompanied by \$5. For description of Mr. Daniels' fowls, see Poultry Dept., this issue.

EITHER collection No. 1 or No. 2 will be given for sending the name of one new subscriber, accompanied by \$1.

Any one of the roses, or any one collection of bulbs in list No. 3, will be given for sending one new subscriber, accompanied by \$1.

AND

SIBERIAN OATS — The variety of WHITE OATS that has done best in connection with the Experimental Union throughout Ontario, for the last six years, is the Siberian. For the name of one new subscriber, accompanied by \$1, we will give 15 lbs.; or for two new yearly subscriptions and \$2, one bushel, by freight or express, as desired by receiver. Shipped at London F.O.B.





next the Ontario Agricultural College, one mile from Guelph. This breeding establish-ment is one of the oldest, most prominent and successful, in the raising of the breeds offered, in America.

The formation of the late John Fothergill will sell by public auction, at Balasm form and the formation of the late John Fothergill and also certain chattels, the property of the executor. Balasm farm and certain chattels belonging to the estate of the late John fothergill, and also certain chattels, the property of the executor. Balasm farm and cortains for formation of lots 17 and 18, in the 3rd concession of parts of lots 17 and 18, in the 3rd concession of the farm is beautifully situated within a few many of the G. T. R. The soil varies from and contains 205 acres and upwards. The farm is beautifully situated within a few many load contains 205 acres and upwards are under the farm is beautifully situated within a few many load contains 205 acres and upwards are under the farm is beautifully situated within a few many load contains 205 acres and upwards are under the farm is beautifully situated within a few many load and the farm in the other soil varies from and y loam to clay loam ; the subsoil is nearly load acres and upwards are under the farm is beautifully situated within a few many load acres and upwards are under the farm is beautifully situated within a few shows and there suitable out five acres of orchard. The farm in the other suitable out five acres of orchard in the fit of April, 1885, if the sale be then completed of the farm in the fully situated within 30 days thereafter, and the purphase many shows thereafter, and the purphase many shows the fastes – 10% of the further sum, sufficient with the 10, the sale be hene completed of the farm in the fit of the purchase more the same by the same of the farm in the fit of the further sum sufficient with the 10, the sale be hene completed of the farm in the farm in

MARTIN & MARTIN,

## 47 James St., South Hamilton

Or to CHRISTOPHER FOTHERGILL, Executor, or W. G. PETTIT, both Freeman P. O., Ont.

Auction Sale of J. C. C. JERSEY CATTLE Α. and Unregistered Jersey Cattle, also Registered Ayrshire Cattle, near

Norval, Ont. 1 Aged Jersey Bull, A. J. C. C.; 1 Jersey Bull, four months' old, promising young show bull, A. J. C. C.; a number of young Jersey Cows; 30 good Grade Cows, some with calves by side, halance as caller: 2 fine "Enterprise" Berk shire Sows, in just to King Lee IV., to pig about time of cale; also a number of young Sows, all chighle to resist action. lightle for real-station. SALE MARCH 11th, 1895. Sale will com-

ck. Conveyances will meet al Station. TERMS: Eight all JOHN SHITH, JOHN SHITH, mohi and mote S. J. LYONS. PRIETOR. 5 011

in America. FARMS.—At the same time there will be offered the Moreton Lodge Farms, most of which have been used for breeding improved stock, from 45 to 64 years, by the late owner, consuming all crops raised, and large quantities of fodder pur-chased on the farms; consequently they are in a high state of fertility. The location for a breeding establishment cannot be surpassed, being in the centre of the best district for that purpose in Ontario, the Home Farm im-mediately adjoining the Ontario Agricultural College. The proposed Guelph Electric Street Railway will run past the farm, and within a few yards of the buildings. Catalogue on application to HARRY MURTON.

### HARRY MURTON.

Executor F. W. Stone Estate, GUELPH. o-om

German Coach and Royal Belgian

STALLIONS Just landed and for SALE at Seven Shorthorn Bulls of extra quality and breeding, at prices to suit the times. Texas Rust-proof Oat, grown four years in Canada, averaging seventy-five bushels per acre, is reddish in color, large in grain, and generally contains three grains in one chaff. Straw is medium length, and stands well. It is a great stooler, very early, and one of the coming oats for Canada. Price, one to five bushels, \$1.00 per bushel; five to ten, 90 cents; ten and over, 75 cents. Bags free. Siberian yielded highest at Experimental Stations. Price, 60 cents per bushel. Bags free. For particulars write . G. A. BRODIE, Bethesda, York Co., Ont. ROYAL HOTEL. Wookstock, Ont Six German Coach Horses that were ex-hibited at the

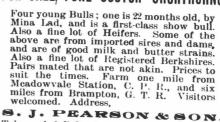
and won two first prizes, three seconds and one fourth. Each of these horses won honors at the great Exposition, 1893. These are the the great Exposition, 1893. These are the greatest, truest, and most prepotent carriage horses in the world. Graceful, sweet disposition, high action, fast stepping. Two Royal Belgians, weigh 2,000 pounds each. High nethers and necks, great hearts, deep, well-sprung ribs, always good feet. The soundest draft horses in the world. One of these horses won first prize at the World's Fair, 1893. Come and see eight of the best Stallions that ever landed in Canada.

Address A. B. HOLBERT, Prop., WOODSTOCK, ONT. or GREELEY, DEL. CO., IOWA. d-om 3-a-om

(by Imp. Excelsion, ito YAL SAXON = 1037 = the herd, with BARMPTON M. = 18240 =, by Barmpton Hero = 324 =, in reserve. Female representatives of the celebrated Mina, Strath-allan, Golden Drop and Mysie families. The Berkshires are choice, prize-winning stock. Easy to feed, quick to sell. Stock FOR SALE. C. M. SIMMONS, Ivan P.O., Ont. 1-1-y-om JAMES QUIRIE, Delaware, Ont. 14 to 16 months old, of the best breeding. Large size, thick and well-fleshed; grand quality At reasonable prices. Address,

E. GAUNT & SONS, St. Helens, Ont. Lucknow Station, G.T.R. 13-1-y-om

FOR SALE, PURE SCOTCH SHORTHORNS



Telegraph & P.O. 4-c-om MEADOWVALE, ON

FOR SALE SHORTHORN BULLS, AND SEED OATS

G. A. BRODIE, Bethesda, York Co., Ont.

5.c.om Shorthorns for Sale. EIGHT SHORTHORN BULLS, including Canada

second prize yearling at Toronto, the best show bull in Canada of his age, and a sure

getter. Also a lot of young cows and heifers.

J. & W. B. WATT.

Salem P. O., Elora Station,



Section of

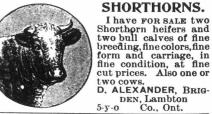
CARGILL HERD OF SHORTHORNS.

Stock from imp. bulls and imp. and home-bred cows. Catalogue now in printer's hands. Send for one.

H. CARCILL & SON,

CARGILL, ONT. 11-y-om

For sale, 4 young bulls, 2 reds and 2 roans also yearling heifers and heifer calves. The Golden Drop bull, Golden Nugget =17548=, by Imp. General Booth =6365=, (54353), at head of herd. Address WM. GRAINGER & SON, Lon-desboro. Ont. 13-y-om



DEN, Lambton 5-y-0 Co., Ont. FOR SALE.-HOLSTEIN BULL CALF. Eleven months old; good, thrifty animal: well marked: first-class pedigree. Inspection invited. Will sell cheap. J. R. SUDDABY, Box 6, HARRISTON, ONT. 5-b-om



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## THE FARMER'S ADVOCATE.

#### NOTICES.

Among the new advertisements in this issue is a full announcement of executor's sale of estate of the late John Fothergill. We will give fuller notice in our next issue.

The Creamery Supply Co., Guelph, are again to the front with their full supply of dairy utensils, milk testers, and cream separators.

20-y-om

P.O. Box 288

-: AND :-

**C. HARLESTON IRVING,** 

**MAPLE SHADE** 

SHROPSHIRES AND SHORTHORNS

My yearling Shropshire rams are all sold. I now offer a select lot of ewes in lamb at reason-able rates. Also young Shorthorn Bulls and Heifers good enough for anybody. Satisfaction guaranteed. Fullest information cheerfully given.

HON. JOHN DRYDEN.

BROOKLIN, 3-1-y-om ONT.

JOHN A. MCGILLIVRAY, Jerseydale Farm, Uxbridge, Ont., Midland Div.

C. T. R., importer and breeder of

Dorset Horned Sheep 19-1-y-om

MAPLETON FARM.

**OXFORD DOWN SHEEP FOR SALE.** 

stock

HERBERT WRIGHT, Box 47, Guelph, Ont

Importer and breeder of Oxford Down sheep, winner of nine prizes u of ten entries at World's Fair. Fifty rams and ewe lambs for 1894, from Royal and World's Fair winning rams. Prices rea-twicewinner sonable. Guelph, G. T. R.; Arkell, Over all breeds. C. P. R.; Telegraph, Guelph; Telephone, Arkell. 7-1-y-om

SMITH EVANS, Gourock, Ont

To Stockmen & Breeders.

ITTLE'S

HENRY ARKELL

Arkell P. O., Ont.

Importer and breeder of Oxford

Good yearling ewes

and rams, sired by

imp. rams; also a few

good imported ewes. Writefor particulars,

Breeder and im

porter of registered Oxford-Down Sheep. Selections from some of the best flocks in England. Stock for

sale at reasonable

invited

Inspection 5-1-y-om

stock.

5-1-y-om

"Bonshaw Farm," NEWMARKET. 9-1-y-om

Also a few females. Apply to

J. W. Provan, Oshawa, Ont., deserves the attention of all haymakers and harvesters. He advertises in this issue his widely-known and successful horse fork and sling. See his advertisement.

The Bow Park Co. (ltd.), Brantford, Ont., have announced for sale in the advertising columns of this issue, a variety of seed oats which has won a distinguished place in many reliable tests. reliable tests.

T. T. Coleman, Seaforth, manufactures a land toller that sells at sight. The frame is of steel, as well as the drums, which turn on pivots, thus adaoting itself to all conditions of surface, rolling the ground evenly and all alike. Read their advertisement.

Cheese-factory men are invited to observe W. W. Chown & Co.'s advertisement in this issue. All the appliances put out by this firm are strictly modern and first-class. Remember that first-class cheese can be made only by using the best utensils.

Dr. Mole, M. R. C. V. S., Toronto, is a name **Dr. Mole, M. R. C.** V. S., Foronto, is a name that has become, we are sure, very familiar to our thousands of readers. We take pleasure in **drawing** attention to Dr. Mole's new adver-tisement in this issue, and assure our sub-scribers that they will find him to be a thoroughly practical and honorable man.

We are pleased to see that the Toronto Salt Works, whose advertisement appears in this issue, are giving the farmers of Canada an op-portunity to sccure rock salt at such a reason-able price. When rock salt sold at from \$100to \$200 per 100 lbs., its use was very limited, but at the price they offer it, it should be used on every farm. on every farm.

on every farm. Geo. Leslie & Son's fruit, ornamental and shade trees and other nursery sock are placed before the public in this issue. This nursery was established fifty-seven years ago, and has been growing in popularity during its whole existence. All orders are guaranteed true to label. Every year put off in planting trees de-lays the production of fruit just that length of time. So order now from Loslie & Son, Toronto. B Bell & Son's turnip-sower and cultivator

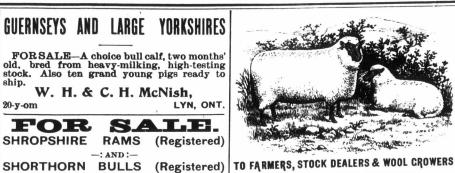
time. So order now from Loslie & Son, Toronto. B. Bell & Son's turnip-sower and cultivator have won for themselves a reputation wherever introduced. It is high time many of the old-fashioned sowers were discarded for new ones, that sow all the time just the depth and quan-tity required. A proper cultivator used at the right time often insures a crop of roots or corn where no crop at all would follow a bungling old scruttler that cuts away below the suface, or in any way fails to stir the surface evenly and shallowly. See Bell & Son's advertisement.

#### HOW TO GET "SUNLIGHT" BOOKS.

Send twelve "Sunlight" Soap wrappers to Lever Bros. (Itd.), 43 Scott St., Toronto, who will send post-paid a paper-covered book, 160 pages. By leaving the ends of the parcel open, it will go for one cent postage. Remember "Sunlight" now sells at six cents per twin bar.

### A TOBACCO COMPANY'S GENEROSITY.

A TOBACCO COMPANY'S GENEROSITY. The George E. Tuckett & Sons Tobacco Co. (ltd.), of Hamilton, nine years ago instituted the commendable idea of presenting a deed of a building lot each Christmas to their oldest active employee. This year it was the good fortune of Mr. Thomas Milligan to succeed to the firm's generosity, he having been with them for 21 years. In addition to the lot, he received a substantial check from the same source. The whole staff of the concern also came in for a gift, the day hands receiving an extra week's salary and the piece hands a good sized turkey. Some time ago the Messrs. Tuckett turned their factory into a joint stock company, admitting many of the more important employees into a desire to share with their men the prosperity of the house cannot help but bear fruit in increased energy and good-will among all who are fortunate enough to be connected with fortunate enough to be connected with this enterprising concern.



FOR SHEEP, CATTLE AND HORSES

LEICESTERSHIRETICK&VERMINDESTROYER LEICESTERSHIRETICK & VERMINDESTROYER It effectually destroys Ticks, Lice, Worms or Grub, to which sheep, horses and cattle are subject, and enables the animal to thrive. It will be found far superior to other preparations used for the similar purpose. The proprietors will guarantee perfect success when used ac-cording to directions, as will be found on each box. It prevents sourf and scab, and renders the wool bright and clear. It is put up in tin boxes, price 30 cents each. One box is sufficient for twenty ordinary sized sheep. It only re-quires to be tried to prove itself all that is claimed for it. Sold by Drugzists and Grocers. Manufactured by G. C. BRIGGS & SONS, 31 King St. West, Hamilton, Ont. 2:j-0

## LARGE IMPROVED WHITE YORKSHIRES AND ENCLISH BERKSHIRES Now ready, boars fit for service; young sows ready to mate, and sows in farrow. Prices reasonable. Pairs supplied not akin. Apply to

MAIDEN (IMP) WILLIAM COODCER & SON Box 160, Woodstock, Ont. 11-y-0 IMPROVED YORKSHIRES,

A few Sows three months old; a litter six weeks old, both from imported stock. Also a pure-bred Bates Princess Bull Calf of **8**7 milking strain. WM. COWAN, V. 8., Galt, Ont.

YORKSHIRE PICS

Of the best type and breeding. Pairs not akin for sale at all sea-J.M. HURLEY & SON ville, Ont. Box 442.

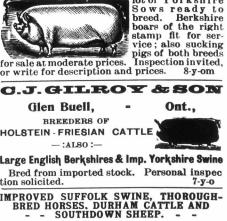
17-1-y-on BREEDER8 OF Large Improved Yorkshire Pigs.

Markham Baron, the sweepstakes Barrov over all breeds at the Guelph Fat Stool (Show, 1828, bred by us. A choice assortmen of Pigs now on hand. Only first-class stool shipped to order. Markham Herd Farm, a wust Hill, Station. 17-y-om JNO. PIKE & SONS.



The largest and most successful prize-winning herd in Canada. In the management of my herd I have endeavored to produce what the market demands, combining the most profitable type for the feeder. Extra lot of in-pig sows for sale cheap. Am booking orders for spring pigs suitable for exhibition or breeding pur-

All stock guaranteed as described.



MARCH 1, 1895

I am now booking orders for spring delivery. Pairs supplied not akin; all stock guaranteed as de-scribed. Inspection of herd solicited. All cor-respondence prom ptly attended to.

S. COXWORTH, CLAREMONT, ONT.,

Breeder and Importer of Berkshire Hogs and Cotswold Sheep.

8-y-om H. J. DAVI8, Woodstock, Ont., Breeder of Short-horn Cattle, Imp. Large White Vorkshire and Berkshire Swine, Some very fine young bulls of good color and breeding, from 12 to 18 months old, for sale. Also a number of Yorkshire Boars of splendid quality, fit for service, and a good lot of Y orkshire Sows ready to

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#### PINE VIEW HERD! CHESTER WHITES and BERKSHIRES.

CHESTER WHITES and BERKSHIKES. Young Boars fit for service. Young Sows in pig to an Imported Boar. And in fact I can sup-ply any aged pig wanted of the two breeds men-tioned above, at a price in touch with the times. Orders are solicited for weanlings; but I am anxious to clear out the older ones in order to make room for sows farrowing next month. For prices and other particulars addrcss, JAMES H. SHAW, Simcoe, Ont. 21-1-f-om

IMPROVED Chester White and Tamworth Swine Our Improved Ches-



Sweepstakes at large exhibitions than all herds of Chesters combined in the Do-

#### STOCK GOSSIP.

Dairy cattle are in demand, and a special op-portunity is now offered of procuring them. See S. J. Lyons' advertisement in this issue.

portunity is now offered of procuring them. See S. J. Lyons' advertisement in this issue. G. W. Clemons, St. George: "I beg to re-port the sale of the young bull, Margaret 4th's Mercedes of Helderleigh, advertised in the ADVOCATE, to Messis. John & D. McNaughton, Puslinch, Ont This bull was sired by Siepkje 3rd's Mink's Mercedes Baron, winner of second prize at the great Columbian Exposition, and that also headed the second prize herd there. He has for dam Margaret 4th, also a member of the above herd, and a great producer as well. She gave in seven days 129 lbs, milk and 211 lbs, butter as a three year cld. This bull is a good one, and goes into good hands, so he may be relied on to give a good account of him-self. Have also lately sold my four-year old stock bull, Artis Aaggie Prince, to Mr. W. C. Quickfall, Glenallan, Ont. Mr. Quickfall is a starting a nice little herd of pure bred Hol-steins. Artis Aaggie Prince has done good service in my herd; among others of his get were the second and fourth prize heifer calves, in a ring of seventeen, at the last Industrial, and he is as active as a yearling. Have no bulls tor sale now that are fit for service, so 1 send, advertisement of a bull calf, to take the place of that now running in your paper. 1 that the is valve is Avocatte by far the best this ment of a buff car, to take the that now running in your paper. I is advises ADVOCATE by far the best ing medicate from use. Inquiries are the the medicate received from adveradvertising undiinst dos

# ELNSEYS

This is the justy based on only say Large, vigorous and hardy, vising pre-rich mils. Insported high basen son a Pres Mostor, Station busites as the only heads the herd. 1.2.

SYDNEY FUCHER, Alva Larr, Knowhon, F.Q.

PATENT: FLUID NON-POISONOUS SHEEP D

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## AND CATTLE WASH.

For the destruction of Ticks, Lice, Mange and all Insects upon Sheep, Horses, Cattle, Pigs, Dogs, etc. Superior to Carbolic Acid for Ulcers, Wounds, Sores, etc. Removes Scurf, Roughness and Irritation of the Skin, making the coat soft, glossy and healthy.

healthy. Dryden, Minister of Agriculture, should be read and carefully noted by all persons inter-ested in Live Stock: "MAPLE SHADE" HERDS AND FLOCKS.

"MAPLE SHADE" HERDS AND FLOCKS. BROOKLIN, ONT., Sept. 4th, 1890. DEARSIR, -I cannot afford to be without your "Little's Sheep Dip and Cattle Wash." It is not merely useful for Sheep, but it is invaluable as a wash for Cattle, etc. It has proved the surest destroyer of lice, with which so many of our stables are infested, I have ever tried; it is also an effectual remedy for foul in the feet of Cattle. I can heartily recommend it to all farmers and breeders. JOHN DRYDEN. Aff Seventeen Gold, Silver and other Prize Medals have been awarded to "Little's Patent Fluid Dip" in all parts of the world. Sold in large this at \$1.00. Special terms to Breeders, Ranchmen and others requiring large quanti-ties. Ask yournearest druggist to obtain it for you; or write for it, with pamphlets, etc., to ROBERT WICHTMAN, DRUCCIST, OWEN SOUND, On &

ROBERT WICHTMAN, DRUCCIST, OWEN SOUND.Ont. Sole Agent for the Dominion 7 Ly om





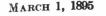
combined in the Do-minion, in cluding Sweepstake Sow over all breeds at Fat Stock Show, Guelph, 94. Tamworths are selected from best breeds in England, and winners of Sweepstakes at Fat Stock Show, Guelph and Ottawa, 1894. Choice Sows breed for spring trade. Orders booked for spring pig in pairs not akin. Re-duced rates by express. Send for price list.

-y-om H. GEORGE & SONS., Crampton, Ont.

## R. H. HARDING, Thorndale, Ont.,

Is offering special bargains for the next thirty days in Chester Sows in farrow, and Boars fit for service, in order to make room for spring litters. 20-y-om





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## THE FARMER'S ADVOCATE.

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## STOCK GOSSIP.

# Better Crops

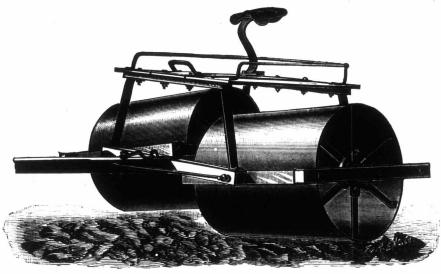
result from use of fertilizers rich in potash. Most fertilizers sold do not contain

# Sufficient Potash

to insure the best results. The results of the latest investigations of the use and abuse of potash are told in our books.

They are sent free. It will cost you nothing to read them, and they will save you dollars. GERMAN KALI WORKS, 93 Nassau Street, New York.

## The DALE PIVOTED LAND ROLLER (Patented)



It is unanimously recommended by those farmers who have used it. Orders are now being booked for the spring trade. Description and price furnished on application to T. T. COLEMAN, SOLE MANUFACTURER, SEAFORTH, ONTARIO. 5-**om** 



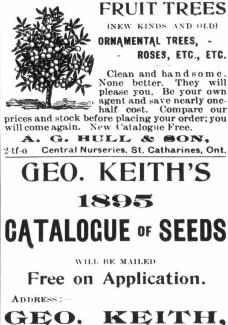
to direct purchasers, and satisfaction guar anteed. Full lines of

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AT HARD TIMES PRICES

Trees for fruit, Trees for shelter, Trees for shade, Trees for street. Trees for decoration, Berry-bushes, Hardy Grape Vines, Flower-ing Shrubs, Roses, &c. The largest stock of Ornamental Trees in the Dominion. Price Lists free. Enquiries requested. Filling letter orders a specialty. Get your orders placed early. **CEO. LESLIE & SON**, VEARS FOR DECORDERS

57 YEARS ESTABLISHED. TORONTO NURSERIES



124 King Street, TORONTO. 3-d-0



Smith Bros., Credit Valley Stock Farm, Churchville, Ont., place with us an advertise-ment interesting to persons desiring Holsteins of either sex of splendid quality. We would recommend persons whom it may interest to send to this firm for catalogues.

The former firm for catalogues. The former firm of A. C. Hallman & Co., New Dundee, now known as A. C. Hallman, change their advertisement in this issue, over the new name. We believe the members of Mr. Hall-man's herd have been selected and developed along the line of butter production, as well as that of milk.

that of milk. Thos. Ballantyne & Son's catalogue of their entire Shorthorn herd, to be sold on Wednesday. March 13th. 1895, has been received. It gives extended pedigrees and descriptions of the twenty eight head of Scotch Shorthorns to be disposed of without reserve. This sale offers an opportunity to secure splendid material for show purposes, which means that they are splendid animals to go into any Shorthorn herd in any country. Eleven of the cows have calves at foot, two are due to calve in March, one in May, which will be sold with dams, all, with one exception, got by Scotchman, a noble son of Barmpton Hero. Catalogues will be cheerfully sent on application to Thos. Ballan-tyne & Son, Stratford, Ont.

son of Barmpton Hero. Catalogues will be cheerfully sent on application to Thos. Ballan-tyne & Son, Stratford, Ont. Messrs. H. George & Sons, Crampton, Out., write :-- "Our herd of Improved Chester Whites and Tamworth swine are coming through winter in flae condition, having five sows farrow 48 strong pigs, and doing well : two of the litters are from full sisters to Chester Queen, the sweepstake sow over all breeds at Fat Stock Show, Guelph, of 1894; having also added to our herd a choice Im-ported boar, U. S. King (from the noted herd of Messrs. S. H. Todd & Sons, of Wakeman, Ohio), who won the lion's share of prizes given at the World's Fair, Chicago, in 1893. Sales have been remarkably good for such hard times, having several orders already booked for spring pigs. Our sales for the last few weeks are as follows: G. W. Glover, Nottawa, Ont., one boar; F. A. Folger, Kingston, Ont., one boar; Thos. Beckton, Gleneee, Ont., one sow ; Alex. McLean, Carleton Place, Ont., one sow ; Alex. McLean, Carleton Place, Ont., one boar and two sows; G. W. Calbbech, Augustine Cove, P. E. Island, one boar; W. E. O'Brien, Dunham. Que., one boar; W. E. O'Brien, Dunham. Que., one boar; W. E. O'Brien, Dunham, Que., two boars and two sows; H. I. Gibson, Bowmanville, Ont., one sow ; John Mc. Diarmid, Lucknow, Ont., one sow ; John Mc. Diarmid, Lucknow, Ont., one sow; John Mc. Diarmid, Lucknow, Ont., one sow ; John Mc. Diarmid, Lucknow, Ont., on

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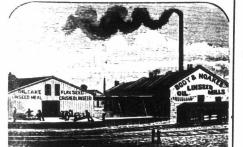
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It has been for years a part of our business to send our machine on trial to fair-minded re-sponsible farmers living at remote distances, such machine to be put up by them and used until their harvesting be half done, when they are required to decide whether they will keep the apparatus or return it; if the latter, we will pay return freight charges.

J. W. PROVAN, OSHAWA, - ONTARIO,

## Sole Manufacturer and Patentee.

While we do not recommend a Wood Track, we claim to have the latest improved and most reliable working Wood Track Car on the market. This machine will be shown at Toronto, London and Ottawa, and has been on exhibition at Chicago since the opening of the World's Fair. It has obtained the highest awards, and made a clean sweep, both judges and visitors speaking of it in the highest terms. 5a-0



LINSEED . OIL . CAKE de, nutted or meal. Car lots delivered at point. Write for prices. BODY & NOAKES, hipeg Linseed Oil Mills, Winnipeg, Man. 21-om

**GUARANTEED SUPERIOR AND TO LAST** LONGER THAN ANY OTHERS.

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SOLE MANUFACTURERS. METALLIC ROOFING COMPANY, LIMITED,

84 to 90 YONGE ST., TORONTO. CUT OUT AND SEND US THIS ADVERTISEMENT FOR SPECIAL PRICE. 10-y-o



Light, strong and easily controlled by convenient levers. Has attachments for all kinds of hoeing, cultivating and furrowing. Guaranteed superior to any. Our free catalogue tells all about it and 28 other tools. S. L. ALLEN & CO., Philadelphia, Pa. kii

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heavy milkers, a quality very desirable at the present time. AMERICAN CLYDESDALE ASSOCIATION. A the last annual meeting of the American Clydesdale Association, the following officers were elected for the ensuing two years: Presi-dent, R. B. Oglivie, Madison, Wisconsin; Vice-President, Robert Miller, Brougham, Not.; Secretary, Alex, Galbraith, Janesville, Wisconsin; Treasurer, David McKay, Fort Wayne, Indiana. Additional members of the Executive Board: Col. Robert Holloway, Alexis, Ils; N. P. Clarke, St. Cloud, Minn.; L. B. Goodrich, State Centre, Iowa. The present Board have adopted a policy word, Clydesdale interests have suffered along with the rest, but owing to the lively demand which is sure to come for first-class draught horses, the Association has decided to prepare for making a grand exhibit of their horses at the next Chicago horse show. It is felt by that Association that Canada can produce an exhibit which will surprise the American people. For the purpose of encouraging the largest and best chibition possible on the occasion above referred to, this Association will offer the fol-lowing liberal premium, \$200; second premium, \$150; fifth premium, \$200; fourth premium, \$50; fifth premium, \$30; fifth premium, \$50; fourth premium, \$50; fifth premium, \$50; fourth premium, \$ begin active preparations at once



## STOCK GOSSIP.

**AT** In writing to advertisers, please mention the Farmer's Advocate. The executors of the estate of the late F. W. Stone, Guelph, advise us that on Thursday, March 21st, at Moreton Lodge, near the O. A. C., Guelph, the entire herds of Hereford and Shorthorn cattle, Southdown sheep, together with horses and the farms (five parcels), 600 acres in all, will be disposed of at public auction.

Auction. MR. SMITH EVANS' OXFORD-DOWNS. Our next visit was to the farm of Mr. Smith Evans, of Gourock, some six miles south-lishing a first-class flock of Oxford-Down sheep, numbering some fifty head, which we found in excellent shape. The breeding ewes, some thirty in number, from such flocks as Jeffreys, Adams, Treadwell, Brassey, and Fox, are a large, even lot, of very uniform type, and in fine breeding shape, in lamb to an imported Adams ram, purchased by Mr. Evans last fall, – a blocky, well-made shearling ram, with a beautiful pink skin, a well-covered head, and short, well-wooled legs. The coming crop of ambs from this ram should be something good. An imported Jeffreys ram was also used on some of the flock, so that Mr. Evans will be some the lambs, some twelve in number, the ewe lambs, some twelve in in unber, and short, well-wooled legs. The coming sea-son. The ewe lambs, some twelve in in unber, and the flock so that Mr. Evans will be some of the flock so that Mr. Evans will be some of the flock so that Mr. Evans will be some of the flock so that Mr. Evans will be some of the flock so that Mr. Evans will be some the lambs, also, were in fine trim, large, to kny fellows, which should make good stock and no doubt will be heard from the coming sea-shown successfully at Toronto, London and other leading fairs for a number of years past, and no doubt will be heard from the corienture season. The flock give evidence of careful break for an unber of years past, and no doubt will be heard from the corienture season. The flock give evidence of careful break for the flock give evidence of careful break for the flock give evidence of careful the desting fairs for a number of years past, and no doubt will be heard from the coming season. The flock give evidence of careful the flock give evidence of the flock f MR. SMITH EVANS' OXFORD-DOWNS.

#### WILLOW GROVE HERD OF JERSEYS.

breeding and close attention. WILLOW GROVE HERD OF JERSEYS. Nine miles west of Toronto, and one mile north of Highfield, is the farm of Mr. J. H. Smith & Son, breeders of high-class Jerseys of the St. Lambert, St. Helier and Signal strains. At the head of the herd is Hugo Alphea, of Oaklawn (23499); sire Hugo Pogis of Elmarch (16318); dam Maid Alphea (27983). He was bred by D. A. Givins, Cynthiana, Kentucky, and is a wonderfully good animal, being placed first in his class and heading the herd at all the leading fairs of 1894. King of Highfield is an extra good yearling bull, of which more will probably be heard in the near future. He won first place at Toronto, '94. Signal Rosa May (50092) is a cow that has done herself and owners much credit, as she has never been beaten in her show-yard career. She held the proud posi-tion of being the sweepstake female at the In-dustrial and Western Fairs last fall; in color she is a nice fawn; her milk veins are well de-fined, giving evidence of a correct dairy type; she has a record of 22 lbs. 4 ozs. in 7 days; her sire was Signal's Laddie (11100), her dam May Rose (43893). Cantata of Oakdale (78951) is another beautiful cow in this herd, and a heavy milker. Her dam. Dolly of St. George, was sold by Mr. Valancey Fuller for the handsome sum of \$4,000. Elena of Oakdale (8462), sire St. Qon (18876), dam Menies the 3rd (7741), (20 lbs. 1 oz record). She was bred by John Leys, of Oakdale, Pickering, and has a record of 15 lbs 6 ozs. at two years old. Fame of Oakdale (83535), sire Dean of Oakdale, 64462), sire St. Qon (18876), dam Menies the 3rd (7741), (20 lbs. 1 oz record). She was bred by John Leys, of Oakdale, Pickering, and hers further, were the sweepstakes herd of 1894 at Toronto. She has a most promising udder, and is of the right type thoughout. She was sired by Hugo Alphea, were the sweepstakes herd of 1894 at Toronto. She has a most promising udder, and is of the right type throughout. She was sired by Hugo Alphea of Oak heifers to calve soon. MR. DANIEL DECOURCEY'S CHESTER WHITES. A drive of some seven miles through badly-drifted roads, and facing a biting north wind, brought us to the farm of Mr. DeCourcey, Bornholme, Ont.; but on the inspection of this herd the writer felt well repaid for his trouble, and was impressed at once with the thought that the breeder must be a thorough judge, judicious in mating, and a careful feeder, in order to obtain such results as we saw before us. Mr. DeCourcey believes in keeping noth-ing but first-class stock for breeding purposes; and in adding fresh blood to his herd, he pur-chases nothing but the best he can obtain This herd has been successful winners at all the leading fairs for a number of years, and are a credit to the owner. Illinois King (381), an imported hog, bred by N. G. Alexander, Delavin, III, headed the herd; he was sired by Mack A (5801), dam Duchess 2nd (584). He is a very smooth hog, with good length of body, and extra broad on hams, standing on short, stocky legs, his get being of the right type. Glanworth King (228) is, another stock hog being used on this herd; a very lengthy, strong hog of good bone and substance-bred by N. H. Harding, Thorndale. Among the breeding sows we particularly noticed Anastacia (226), a model Chester White sow, admired by all who see her for her size, straightness of body, smooth head and shoulders, long body, with vel-sprung ribs, well-fie-hed hams, and stand-ing on good, fine, finty legs; bred by Mr. DeCourcey, and sized by Ed Morris (59), a noted stock hog and American prize-winner; dam White Hose (113). In the same pen with Another fine sow is Dew Drop (503), suckling a litter of ten fine pigs at the time of our visit. She gives every promise of turning out an extra good sow. We also noticed Lucy (18), Lady D (386), and Curly Lass ad2, sired by Archie Silver 283, dam Bessie 283, the first prize aged sow wit Toronto in 1804; and a mu-ber of other young sows well worthy of men-tine fine sow MR. DANIEL DECOURCEY'S CHESTER WHITES



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To Smokers

To meet the wishes of their customers The Geo. E. Tuckett & Son Co., Ltd., Hamilton Ont., have placed upon the market

This supplies a long-felt want, giving the customer one 20-cent plug, or a 10-cent piece, or a 5-cent piece of the famous "T & B" brand

The tin tag "T & B" is on every piece

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BUCHANAN'S FLEXIBLE SPRING STEEL PICKET and WIRE FENCE.

We have not space here to fully explain the merits of the PAGE, but its especial feature is the *coil*. In making the fence each foot of the steel wire used is coiled once around an inch rod, thus each wire of the fence becomes an elongated spring. This spring allows the fence to *give* when under a strain, and come back to place as soon as the strain is removed. It makes no difference whether the strain is an instantaneous one, as of a horse running into it, or a steady strain such as being under a snow bank for a month; in either case the fence will surely come back to place and never remain loose.

## THE PAGE WIRE FENCE CO. OF ONTARIO (Ltd.), WALKERVILLE, ONT.

4. T. BUCHANAN, Ingersoll, O. Manufacturer Wire Fence, J Carriers, Hay Forks, and a line of Hay and Grain Unload Tools. Agents wanted. There is the the the stand of the second of the The state of the s 16: Atres ! Use-:-Queenston-:-Cement FOR BUILDING CONCRETE OR OTHER WALLS, Cisterns, Stable Floors, Hog Troughs, &c.

Write for Prices and Particulars. When parties use our goods, when necessary we will send a skilled man, at our own cost, to give instructions how to build. FARMERS can thus build their walls and save half the cost.

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