

VOL. XLV.

LONDON, ONTARIO, JUNE 9, 1910.

No. 924

Semi-Steel Fire-Pot-Not Gray Iron

A FIRE-POT of a furnace should be able to endure tremendous heat, and to repel the attacks of sulphur fumes.

The material commonly used for a fire-potisgrayiron. The Sunshine fire-potis Semi-Steel.

Now, avoiding technical terms, gray iron has what may be called "open" pores. Through these "open" pores the destructive sulphur fumes attack the iron and hasten disintegration. per cent. heavier than the same size and pattern in gray iron. It is, therefore, better able to endure tremendous heat.

<u>Semi-Steel</u> is made by an <u>exclusive</u> McClary process. You can only get a <u>Semi-Steel</u> fire-pot with a McClary furnace. That is one strong reason why you should have the Sunshine installed in your home.

Go to our agent in your locality and ask him for other reasons. with a <u>guarantee</u> to heat your house to your entire satisfaction.

If you do not know the address of the Sunshine agent in your locality, send a card or letter to the McClary Manufacturing Company at any of the cities mentioned below. By return of mail you will receive an <u>interesting</u> <u>booklet</u> and the name of a competent man, who will be glad to consult with you about the installation of the

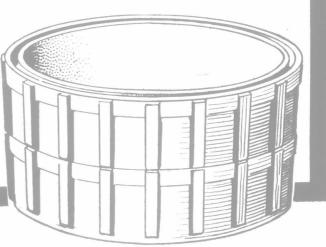
On the other hand, <u>Semi-Steel</u> is a close-grained material, with a smooth-as-glass surface, which seals or "closes" up the pores. <u>Semi-Steel</u> easily repels the attacks of sulphur fumes. Thus the life of the Sunshine fire-pot is greatly prolonged.

A Semi-Steel fire-pot weighs 20

Sur

Ask him to tell you about the Nickelled Steel Dome and Radiator, the Three Triangular Grate Bars, the Correctly Placed Water Pan, the Automatic Gas Damper, the "Rocking Down" System.

Let him tell you how the Sunshine will cut down your fuel bills. Let him install a Sunshine furnace Sunshine furnace in your home.

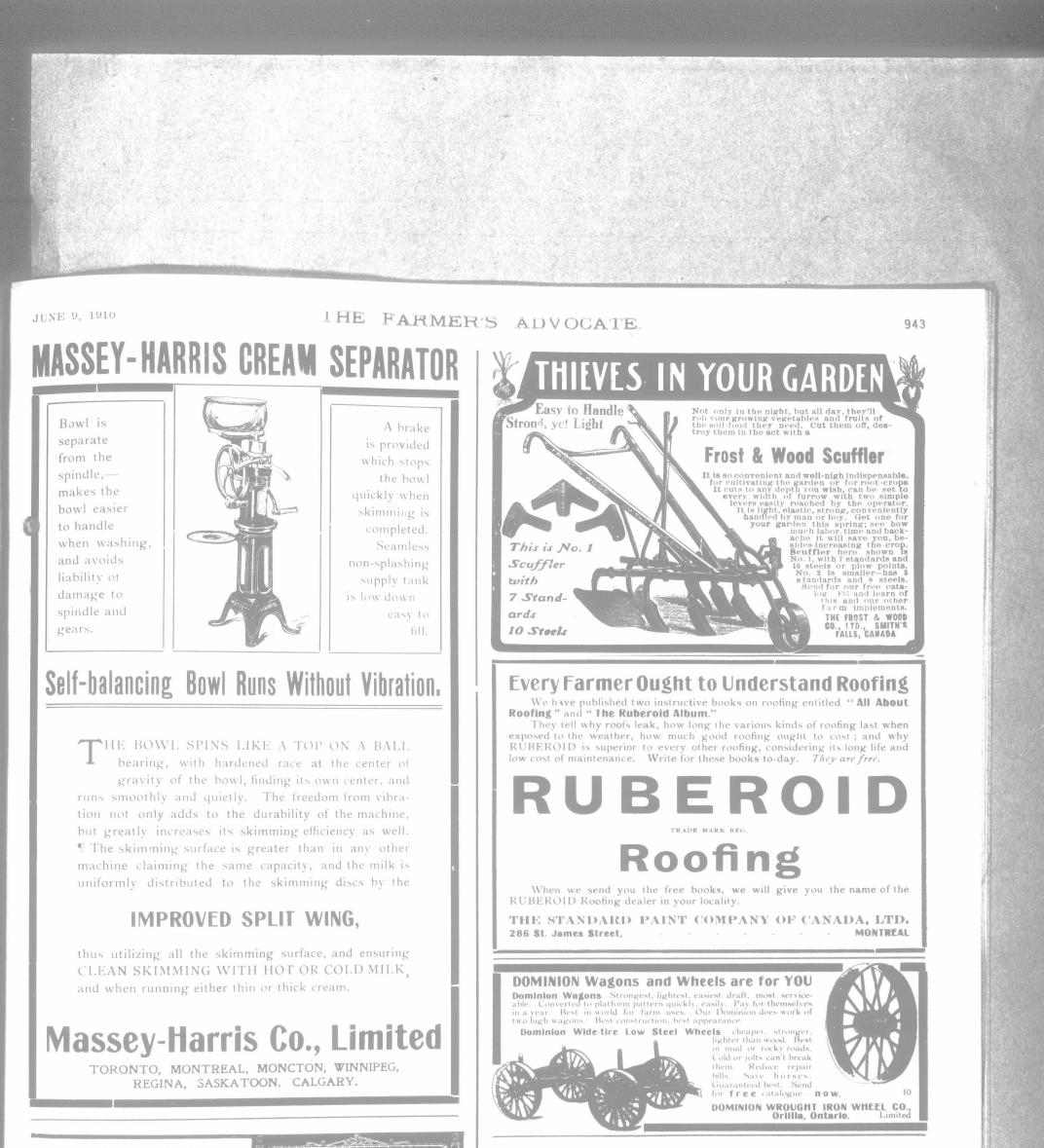


McClary's

London, Toronto, Montreal, St John, N. B. Winnipeg, Vancouver, Hamilton, Calgary







The electrically-welded, solid-piece frame gives strength and stiffness to

Peerless Farm and

THE BANWELL HOXIE WIRE FENCE CO., Ltd., Dept. B Hamilton, Ont., Winnipeg, Man.

Larg.

202 ever pr

PUMP

MAGIC

essure made 5

Highest

duund

hand

running

Power

Challenge

an

gallons

400

spray

GIANI

TLE

High-

made wered

are

sduun

POWER WRITE

E.N.

FOR





OF LEAD.

mmer EFFI er pres DURABILITY, Spray NIAGARA BRAND LIME-SULPHUR ARSENATE 0 3 pump. NIAGARA is the only absolutely reliable Lime-Sulphur Spray, because it is made right. It is a permanent solution of highest insecticidal and fungicidal power. Analysis is stamped on every package, and it is guaranteed by a strong CANADIAN COMPANY. **CATALOGUES**. at No. hour e 1 for barr

ARSENATE OF LEAD is the one polson that kills all kinds of chewing insects. It is endorsed by all leading Entomologists and Horticulturists. It will not burn fruit or follage It sticks to the leaves. It mixes easily and stays mixed.

FARMERS AND FRUIT-GROWERS, with these sprays you can grow Apples and Pears free of scab and worm; Potatoes free of blight and bugs; Cherries and Plums free of rot and curculio

COMBINE these TWO SPRAYS in ONE. This saves time and money. SPRAY-ING is investment, not expense.

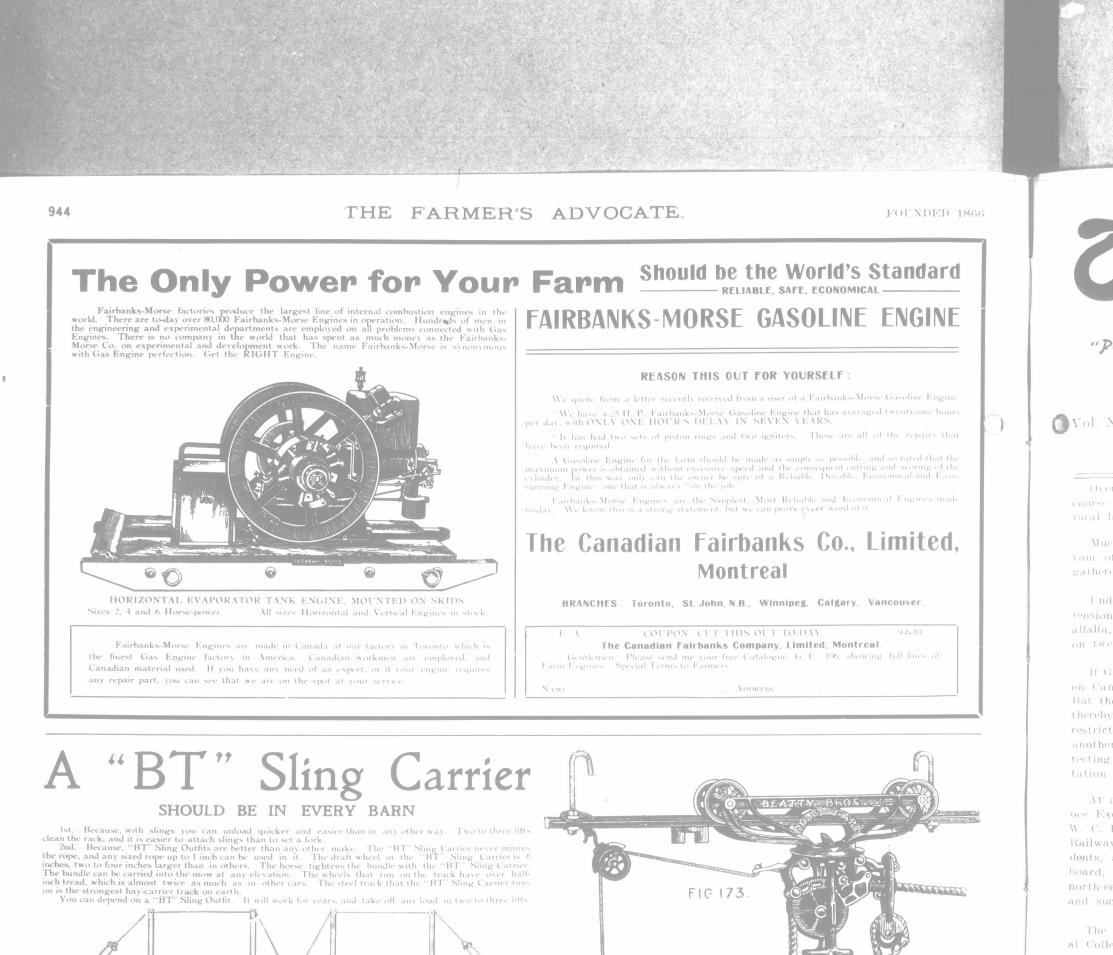
Order now. Be ready when blossoms fall.

Write for our Book: "SPRAYS AND HOW TO USE THEM."

NIAGARA BRAND SPRAY COMPANY, Limited, Burlington, Ont.

NIAGARA SPRAYS ARE ALSO MADE BY : Niagara Sprayer Co., Middleport, N.Y. Oregon Spray Co., Portland, Oregon, Bean Spray Pump Co., Cleveland, Ohio. Medford Spray Co., Medford, Oregon. Hood River Spray Mfg. Co., Hood River, Oregon.

MAGIC No. 9



"BT" Slings are made of the best Manilla rope, and will trip

al Colle crowds, well or tural co an eye-o age ma wishes Northla markets





25







SCIENCE (Including Engineering) The Arts course may be taken without attendance, but students desiring to graduate must attend one session. There were 1517 students registered session

1909-10. For Calendars, write the Registrar, GEO. Y. CHOWN, BA. Kingston, Ontario. 14

CHURCH BELLS CHIMES AND PEALS MEMORIAL BELLS A SPECIALTY FULLY WARRANTED MCSHANE BELL FOUNDRY CO., BALTIMORE, Mp., U. S. A





VANCOUVER Agents Everywhere STATISTICS

Subscribe for The Farmer's Advocate



I hear, doctor, that my friend which trouble," said one of the

it at a () demonst

temporar

Che Farmer's Advocate

"Persevere and Succeed."

Vol. XLV

EDITORIAL.

Over 100 students are taking the journalism course at Wisconsin University; 26 in the agricul-

Much good is bound to result from the digestion of a large body of horticultural experience

Under the Wisconsin Agricultural College extension work this season, demonstration work with alfalfa, corn-breeding, fertilizers, etc., is being done on twenty State and county institutional farms.

If Great Britain sees fit to remove the embargo on Canadian cattle, we shall naturally not object. But the idea that Canada has very much to gain thereby is pure fiction. The embargo is a trade restriction, singular in that, while maintained by another country, it has the incidental effect of protecting us from our own folly, to wit, the expor- mining camp. It thus becomes, as it were, a tation of stores.

At a big meeting, held in the New York Produce Exchange, an organization was formed, with W. C. Brown, President of the New York Central Railway, at its head, and five other railway presidents, and many prominent business men on the board, to resettle and promote farming in the north-eastern States, according to more modern and successful methods.

The June excursions to the Ontario Agricultural College are announced. The list of Institutes participating is longer than usual. May the crowds, also, be larger. Any farmer, whether well or little informed, who can visit an agricultural college on one of these excursions, without deriving more than five dollars' worth of benefit, must possess a curiously unreceptive mind. It is an eye-opener.

and Home Magazine REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT (

LONDON, ONTARIO, JUNE 9, 1910

land.

Three hundred and thirty-five miles north of Toronto (by rail), one hundred and ten miles beyond North Bay, and eight miles past the naked -one enters a remarkable region. Haileybury and Liskeard, be it understood at the outset, are two thriving towns of some five or six thousand inhabitants each, both situated on that beautiful, eighty-mile, elongated stretch of navigable water called Lake Temiskaming, drained at its southern end by the Ottawa River. The towns are five miles apart. Haileybury has, if anything, the advantage in point of topographical location, sloping up from the lake, and presenting a beautiful view from the outgoing or incoming steamer. With the recent inauguration of a trolley line to there is better drained. Cobalt, Haileybury seems certain to become the favorite residential center for that world-famous point of contact between this marvellous mining region, turning out over a million dollars' worth of silver a month, and the magnificent agricultural area just beyond. A hundred miles or so south-west lies Sudbury, the center of what is by far the greatest nickel-mining region in the world. The importance of these relationships, from the standpoint of settlers' markets, will at once be recognized.

But the metropolis of the agricultural district is Liskeard, strategically situated at the very Blanche and the Wabi rivers. From this point. or a couple of miles below it, the great clay belt, following up and tributary to the rivers, opens out in the form of a vast, irregular, V-shaped area towards the north, north-west and north-east, but more especially the north-west. It is broken by the Height of Land, a low rocky ridge, the summit of which crosses the Temiskaming and orthern Ontario Railway between 177 and 178rivers run north, but save for a belt of rough land at this point and a jack-pine belt of sand, the clay area continues to the National Transcontinental and beyond to the muskeg country bordering James Bay. In general, this sixteen or twenty million acre belt might be described as a vast tableland of white, yellow or brown, but mostly white, clay covered to a varying depth of from an inch to two or three feet, with a sharply-defined layer of dark vegetable mold, consisting of rotten wood and partly-decayed sphagnum moss. At rather frequent intervals the tableland is broken by majestic rivers, winding through valleys of considerable depth. It must not be inferred that the clay land all lies together and unbroken. Here and there outcroppings of rock interrupt the agricultural land, while on the other hand, many blocks of fine soil lie outside the limits of the V-shaped area, as we have attempted to define it. It should be stated that north of the Height of Land the base of the V expands the districts of Sudbury, Algoma and Thunder the City of Quebec, is said to comprise just such four years. soil as in the clay belt of New Ontario. For-

The Clay Belt in Ontario's North- broken land, is significant evidence on this score. East from Cochrane, we believe, the land is more muskeggy, and the agricultural area not so unbroken.

Established

1866.

No. 924

Practically the whole area of the Northland is covered with a light timber growth, chiefly valurock-ribbed town of Cobalt, at a point between able for pulpwood, though containing some mate-Haileybury and Liskeard-no longer New Liskeard rial for lumber, as the mills scattered through the country attest. The trees consist mainly of spruce, birch, balsam, balm of Gilead (locally called whitewood), poplar and dead tamarack, the latter having been killed by the sawfly years ago, and now constituting the best fuel of the district, and about the only ready fuel for campers. A good deal of the country has been burned over at one time or another, and the present secondgrowth timber is consequently rather small, though, as a rule, there is quite a forest of spruce along the rivers, probably because the land

On the flat portions, and especially on the muskeg areas, where the depth of rotten wood and moss, combined with fallen trees, hinders drainage, the land is too cold and wet for vigorous tree growth. Drainage would doubtless improve conditions. Birch is generally found on the fairly well-drained soil. There is said to be little pine, except some jack-pine areas, any distance beyond the Height of Land.

To the uninitiated this great clay belt, as the railroad traverses it to-day, is not particularly inviting. The small wood growth, the whitish soil underneath the mold, the level marshy appearance of much of the muskeg, are liable to excite head of Lake Temiskaming, into which flow the misgivings, while the latitude disturbs the timorous with fears of short and frosty summers.

> As a matter of fact, the southern part of this country has already passed the experimental stage, while even the more remote portions give evidence of proving quite successful. The clay is not clay as we know it in the south, but crumbles readily under the influence of moisture, air and sun, pulverizing into a beautiful seed-bed. The writer

So long as the present excellent opportunities for farming abound in Eastern Canada, the average man is foolish to go either West or North. But for the young man with small capital, who wishes to establish a home for himself. Ontario's Northland offers real attractions. The best of markets, good soil, not a bad climate, and assurance of steady return while clearing the land constitute a quartette of advantages not to be de-

With commendable enterprise, the Government of Nova Scotia is undertaking to promote farm underdrainage, as it has already stimulated the cause of live-stock improvement. By loaning money for drainage, on easy terms; surveying drainage systems for farmers, and, lastly, by the purchase of a traction ditching machine, operating it at a low contract rate per rod, it is hoped to genonstrate widely the benefits of underdrainage,

ertaining to registration seems to have been perial Hunter Studbook to the list of records registration in which qualifies for free admission is one to be proud at and another the best mental to the Mattagami River, one of the Beautiful smooth and well-grown potatoes were heme possessed by any ordered in the world to the Moose, revealed not an acre of passed around for importance.

picked several of the largest and hardest clods he miles from North Bay. Beyond this point, the could find at Liskeard, and brought them south. After being carried in a grip for a week or two they were put outside in a box exposed to weather. A very light shower, not nearly enough to soak them through, softened them so that they crumbled between the fingers like lumps of damp ashes. To anyone accustomed to the clay of the south, the behavior of this Northland material is remarkable, and when mixed with the vegetable mold it makes a beautiful friable productive soil. Splendid crops of farm and garden stuff are produced, the land being especially adapted to peas and clovers, except that the peas sometimes grow too rank, and, consequently, do not fill well. This assures the future agricultural progress of the district, for land that grows legumes has within it a means of perpetual restoration. Gardens worked for twenty years or more show little or no tendency to bake. As a grass and hay country it is superexcellent. E. F. Stephenson, a farmer from York Co., Ont., proprietor of a paper in Liskeard, and owner of a 237-acre into a broad belt, which continues westward into farm, of which 40 acres is cleared, tells us he has had alsike and timothy meadows yield as heavily Bay, and castward irregularly into Quebec. In- seven or eight years after seeding as at the bedeed, the Lake St. John country, away north of ginning, even red-clover meadows lasting three or

At a banquet to the pressmen in Liskeard, he tunately, the bulk of the best land lies in large stated that Dawson's Golden Chaff wheat had contiguous areas, permitting settlement and social been grown in Liskeard section testing 64 pounds organization under the most advantageous condi- to the bushel for two years in succession; Swede tions The fact that a thirty-five mile ride from turnips, weighing as high as 15 to 18 pounds

THE FARMER'S ADVOCATE.

THE FARMER'S ADVOCATE

AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (Limited)

JOHN WELD, MANAGER

AGENTS FOR THE FARMER'S ADVOCATE AND HOME JOURNAL, WINNIPEG, MAN.

- $\epsilon,~THE~FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday.$
- It is impartial and independent of all cliques or parties, handsomely illustrated with original engravings, and furnishes the most practical, reliable and profitable information for farmers, dairymen, gardeners, stockmen and home-makers, of any publication in Canada.
- TERMS OF SUBSCRIPTION.—In Canada, England, Ireland, Scotland, Newfoundland and New Zealand, \$1.50 per year, in advance; \$2.00 per year when not paid in advance. United States, \$a.50 per year; all other countries 128.; in advance.
- ADVERTISING RATES.—Single insertion. 25 cents per line, agate. Contract rates furnished on application.
 THE FARMER'S ADVOCATE is sent to subscribers until an
- explicit order is received for its discontinuance. All payments of arrearages must be made as required by law.
- 5 THE LAW IS, that all subscribers to newspapers are held responsible until all arrearages are paid and their paper ordered to be discontinued.
- REMITTANCES should be made direct to us, either by Money Order or Registered Letter, which will be at our risk. When made otherwise we will not be responsible.
- 7. THE DATE ON YOUR LABEL shows to what time your subscription is paid.
- ANONYMOUS communications will receive no attention. In every case the FULL NAME and POST-OFFICE ADDRESS MUST BE GIVEN.
- 9. WHEN A REPLY BY MAIL IS REQUIRED to Urgent Veterinary or Legal Enquiries, \$1 must be enclosed.
- LETTERS intended for publication should be written on one side of the paper only.
- side of the paper only. **CHANGE OF ADDRESS.**—Subscribers when ordering a change of address should give the old as well as the new P.O. address.
- of address should give the old as well as the new P. O. address. (3. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve THE FARMER'S ADVOCATE AND HOME MAGAZINE, Descriptions of New Grains, Roots or Vegetables not generally known. Particulars of Experiments Tried, or Improved Methods of Cultivation, are each and all welcome. Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage.
- *s. ALL COMMUNICATIONS in reference to any matter connected with this paper should be addressed as below, and not to any individual connected with the paper.

Address—THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (Limited), London, Canada.

grounds timothy was sown rather late in the spring, and three months later the right to cut it for hay was sold for \$25.00. A hundred dollars' worth of hay was cut, and this spring \$50 had already been offered for the privilege of cutting it again. All kinds of our staple farm crops grow successfully except corn, which is not yet produced to any extent. The first farmer in Liskcard went there, we were told, nineteen years ago, and part of the town is now situated on

it is a timber country. He considered the prospects encouraging.

A. J. McDonald, Crown Timber Agent, with headquarters at Cochrane, the junction point of the T. & N. O. Ry, with the National Transcontinental, a level-headed Scotch-Canadian, from old Ontario, who has lived in and travelled all over the north country for years past, and knows it like a book, has every confidence in the future of the clay belt as an agricultural district. He is of the opinion that the clay along the line of the National Transcontinental is, if anything, more friable and easily worked than at Liskeard. himself had a garden at Cochrane last year, where he grew vegetables successfully. At Mistongo, on the Transcontinental, 271 miles east of Cochrane, the construction camp had a garden last year where they grew all their own vegetables, and had as fine a bed of asters as any he ever saw in a hothouse. On a point just north of Lake Abitibi was another fine garden, with pansies growing out all summer long uncovered until about the 15th or 20th of September. This year he said there had been no frost of any account since the first of May. As in the southern part of the Province, the snow disappeared in March or the early part of April, although afterwards the weather, as in the South, was somewhat back-ward. The tendency of this clay to pulverize is extraordinary. It seems to be due to a large amount of lime in its composition. Even where it has been packed down by timbering with sledges a light rain or even a heavy dew will soften it and cause it to crumble. All along the railroad where it has been thrown up out of the ditches one may see it lying loose and flaky, naturally pulverized into a beautiful seed-bed.

According to Bureau of Industry returns, the area assessed in the Province of Ontario in 1908 was 24,497,406 acres, of which 14,132,061 were cleared. Probably thirteen million acres of land are under cultivation in old Ontario to-day. Sixteen to twenty million acres await the plow in this magnificent Northland. The land may be cleared with comparative ease and a return derived from pulpwood while the clearing proceeds. The climate, while severe, is by no means inhospitable. Snow is not particularly deep, and winds are said not to be troublesome. To be sure there is danger of damage by summer frosts, but probably not much more so than was the case when old Ontario was settled. The land responds readily to the effects of drainage, and parts which are not otherwise fit for settlement will be eventually underdrained and tilled at a profit. Coch rane, at the junction of the Temiskaming and Northern Ontario with the National Transcontinental (built by the Dominion Government to be operated as part of the Grand Trunk Pacific system), is on or below the forty-ninth parallel of latitude which divides Manitoba and Dakota. On

the shores of Lake Abitibi, in about the same latitude, tomatoes have been ripened without artificial aid, and potatoes thrive well in that region. An official report by Frank Moberley, C.E., published by the T. & N. O. R. Commission, has the following to say on the climate of the Abitibi region:

FOUNDED 1866

The climate during the summer months along the shores of Lake Abitibi seems to correspond with that of Prince Edward Island, except in months of September and October, when it is colder. The winters are about the same as Manitoba's. The following are the mean temperatures for six years at H. B. Post on Lake Abitibi :

Apr. May. June. July. Aug. Sept. Oct. 33.3 47.3 57.7 64.3 60.5 52.8 40.7

But as you leave the shores of the lake the temperature is lower; ten miles north along the line of Transcontinental Railway it is about five degrees lower, and also to the south as far as Lake Temiskaming. The climate, in fact, is exactly similar to what it was in the south part of the County of Grey some forty years ago.

Much other evidence and testimony could be adduced, all going to indicate a magnificent future for this great belt, which will some day support millions of people on the land, and prove a considerable factor, not only in Canada's development, but in meeting the world's rapidly-increasing demand for food and other products of the soil

Key to Views on Opposite Page.

(All but two from photos by our staff representative.) A—Field of potatoes in blossom in rear view of lumber-vard at Charlton, Ont., in 1906.

B-Town of Englehart from T. & N. O. R. depot. Government greenhouse in foreground to supply flowers and ornamental plants for the railway.

C-Clearing the way for a town site, Cochrane, Dnt.

D—A mining camp at Cobalt. House on the hill is the one in which Dr. Drummond, the Habitant poet, died.

E-Not a "blind pig." Sow in Cobalt mining district. Quite a number of pigs are to be seen throughout the camp.

F—Bridge across the Mattagami River, showing temporary trestlework. This was the farthest point reached by the press excursionists.

G-Typical street scene in Cobalt, taken from the Cobalt-Haileybury trolley-line station.

H—About fourscore school children at Cochrane, assembled for inspection by the press excursionists.

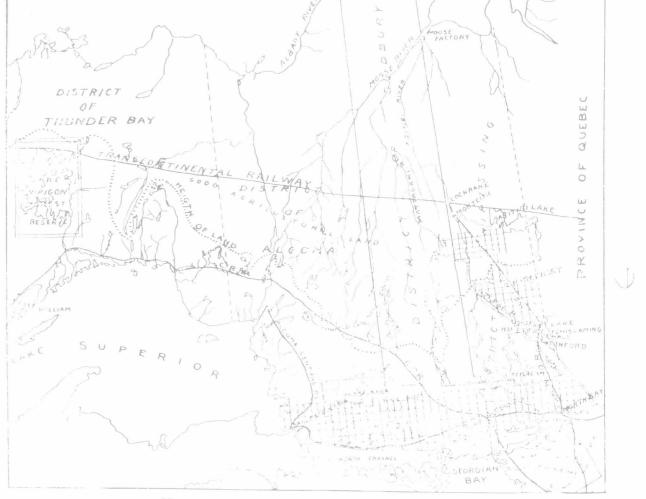
Central Figure—A typical Northerner, A. J. McDonald, Crown Timber Agent at Cochrane



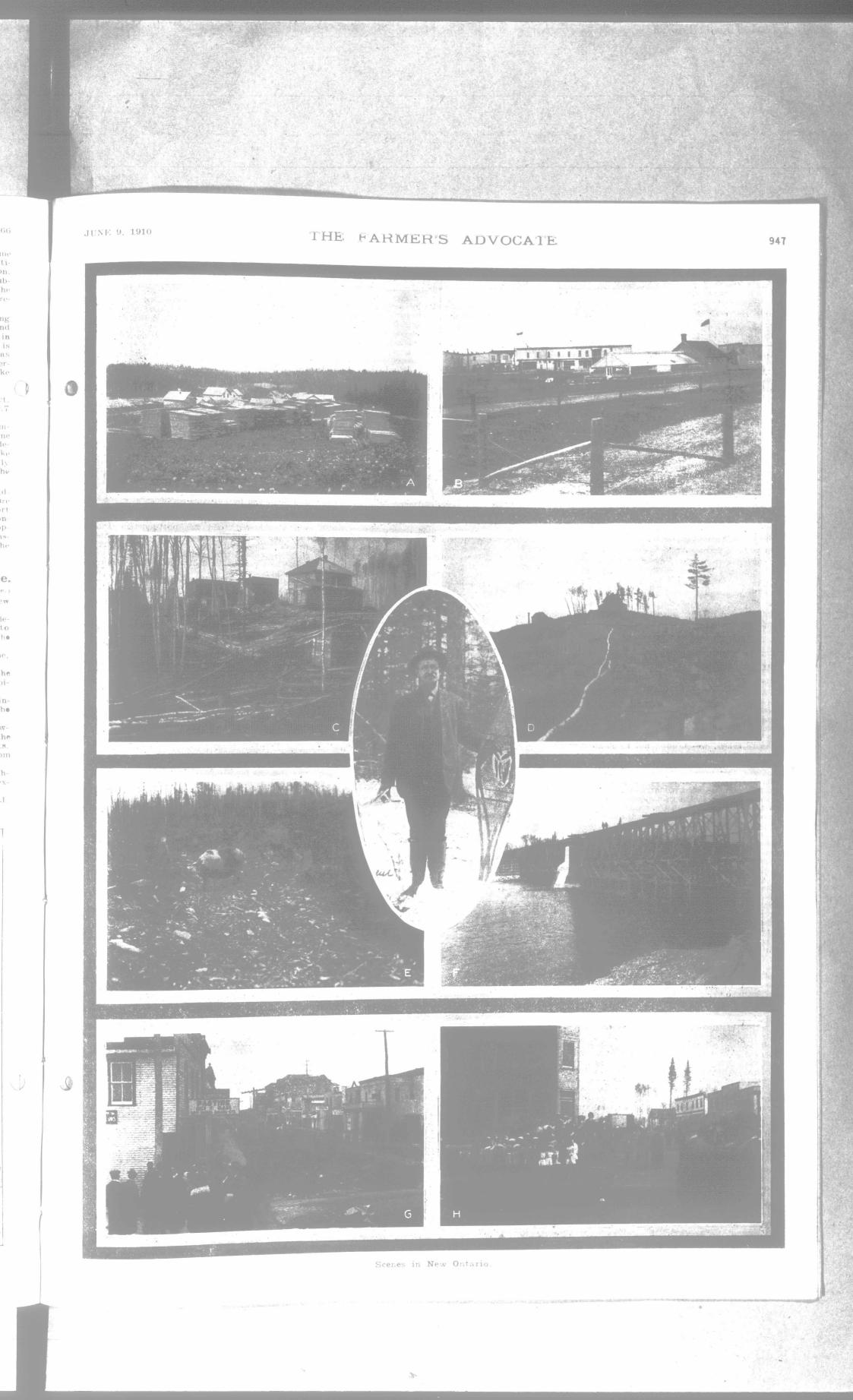
JUNE

the farm he occupied. Some two thousand bonafide settlers are now occupying land in the clay belt, besides veterans, speculators and other nonresidents, and twenty thousand dollars' worth of agricultural implements were distributed through the Liskeard agencies this spring.

But will these conditions hold farther north? There is every reason to think so. At Monteith, 450 miles from Toronto (mainly north), and 25 or 30 miles from the National Transcontinental, the Ontario Government has established a pioneer demonstration and experimental farm, which is under the superintendency of J. Whitton, formerly of Oxford Co., Ontario. The land on a portion of this farm is rather more high and rolling than the average in the district, though at the rear the soil would seem to be fairly representative. Over 100 acres have been cleared of the timber, and about 16 acres put under crop. A piece of fall wheat was sown last year on the 18th of September, which would be rather late for best results even in the south, and would seem to be decidedly too late for a section so far north. Notwithstanding, it came through the winter, and although looking rather sickly in the spring, was reviled by recent rains, and on the occasion of the press excursion visit on May 20th, vas look ing fairly promising. Variety tests are being conducted with spring wheat, oats, peer, horley, turnips, mangels and carrots. A mod should be results of the work at this station will be writed with keen interest. Mr. Whitton informed the used with keen interest. Mr. Whitton informed the prement that four men and a team has though to be needed with spring wheat, oats, peer, horley, the clearing of the land is easy, consident with keen interest. Mr. Whitton informed the prement has four men and a team has though to the dearing of the land is easy, consident to be



Map Showing the Clay Belt of New Ontario.



me ti-)n. 1b-he re-

ng in is as er-ke

m-ne le-ke ly he d-tre on-p-us-he

e. e.) 9₩

le-to he

e,

he Di-

n-be

he s.

h-

7

THE FARMER'S ADVOCATE

Why We Should Cultivate.

Correspondence published on the summer cultivation of growing crops indicates plainly that few, even among our best-informed farmers, comprehend clearly the real objects of such tillage. These are : First, by deep cultivation, to render the soil more permeable to plant roots, and to compel deep rooting ; second, by preserving a loose mulch of dry soil to check upward capillary movement of moisture, and thus conserve it by protecting it from evaporation; third, to aerate or ventilate the soil; fourth, to destroy weeds. The latter object should be accomplished incidentally. The purpose of aerating the soil and conserving moisture is to provide conditions favorable to the liberation of plant food. In addition, large quantities of moisture are necessary to carry the plant-food solutions up to the leaves. Hundreds of tons of moisture are thus used and evaporated in the production of one ton of dry plant tissue. Excessive cultivation may, by causing rapid and complete disintegration of humus, exhaust the soil out of proportion to the net benefit obtained, leaving it in poorer condition to produce subsequent crops, and causing it to run together and bake. Cultivation should be three or four inches deep at first, decreasing to one or two inches when the corn is in tassel. Six or eight stirrings should usually be given the soil in a cornfield, but four or five of these may be advantageously and speedily accomplished with a weeder, which, if used rightly, is one of the most profitable implements one can employ on a farm.

HORSES.

Hunter Breeding and Registration

Editor "The Farmer's Advocate"

We notice in "The Farmer's Advocate" that our old friend, "Scotland Yet," is harshly critical of the Department of Agriculture, Ottawa, in recognizing the Imperial Hunter Studbook, which he characterizes as a "studbook upstart," and not to be taken seriously. "Scotland Yet's" displeasure arises, we surmise, not so much because a gentleman in a remote town in the south of England" has succeeded in establishing a studbook for this useful breed of horses, as it does from the fact that those in charge of live-stock registration in this country-or, rather, the Clydesdale Association of Canada-have not seen eye to eye with him and his confreres in the matter of accepting for registration the get of certain Clydesdale sires, that, for reasons which need not be entered into here, but which the Clydesdale Association of this country considered sufficient, were not deemed eligible for registration in the Clydesdale Studbooks of the Dominion. And for this reason he makes this report excuse for going a little out of his way to take a crack at his Canadian friends for being "superlatively strict" about one thing and careless in another. were not aware, until we read "Scotland Yet's" remarks in the matter, that the Ottawa authorities had decided to "recognize" as pure-bred animals recorded in the particular studbook to which he refers. However, if they have, we cannot see that any great harm will result from it, providing the book in question is not an entirely private affair, something to be confounded with the studbooks which certain American importers of French horses have made up to accommodate the animals they bring over.

blood is required to give stamina, staying power and ambition, without which the hunter would be of this treatment for the desired purpose, we have no better than the cab horse. Hence a usual practice in breeding hunters is to cross a mare that is herself a good hunter with a Thoroughbred stallion. But the results of such matings have not shown that consistency in type can be expected in the offspring. Such a mare is usually a cross-bred herself, or may have in her the blood of several different breeds; she may foal a hunter, but she is just as apt to foal something else. It is strongly probable that the offspring of such breeding will be a "weed." So hunters usually are "misfit" Thoroughbreds, and thus far the chances of getting enough saddle horses of this type in the ordinary course of breeding for speed purposes have been long enough to supply requirements, that and the "misfits" that result from other courses of breeding.

* * *

It is difficult to see how much uniformity can be expected in hunters as a breed. The foundation stock such breeds start from have not the quality of reproducing their own characteristics, and while it would be reasonable to suppose that after several generations of careful selection a hunter horse that would reproduce itself with some uniformity might be developed, it seems as reasonable that a sufficient number of equally as good horses could be produced in the manner in which hunters are now ordinarily bred. But then, something of the same criticism might have been offered when some individuals were laying the foundations of the various and distinct breeds of horses which now exist. A breed cannot start pure and reproduce itself uniformly true to type from the first. That character has to be developed, and perhaps when several generations of pure-bred hunters have been reared we shall have a breed that will reproduce hunter qualities as uniformly as the Clyde or Shire reproduce draft qualities, or the other breeds the particular types or characteristics for which they have been developed. The Irish have had a studbook for hunters for some time. EQUITANT.

New Percheron Secretary.

Geo. W. Stubblefield, who has been for several years secretary of the Percheron Society of America, has resigned the office, and Prof. Wayne Dinsmore, of the Iowa State College, at Ames, Iowa, has been appointed to the office. Prof. Dinsmore announces that he will be unable to give his undivided attention to the work of the Society un til August 1st. after which date his address will be, Union Stock-yards, Chicago, Ill. Prof. Dins. more, it is confidently believed, will make a very strong secretary for the Society, and a decided acquisition to Percheron interests in America.

LIVE STOCK.

Experience with the Yeast Treatment. Frequent enquiries have reached this office re-

With a view to securing evidence of the success enquired of authorities who have used it, and we quote from their replies. Professor G. E. Dav.

FOUNDED 1866

of the Ontario Agricultural College, writes : We have used the treatment for several years, but have no definite proof of its merit. Following are some of the most notable cases

"About four years ago, twelve cows in the dairy stable, which had given more or less trouble, were divided into three lots of four cows each. One lot was given the yeast treatment and each of the other two lots was treated with a certain proprietary remedy. Of the four cows given the yeast treatment, three got in calf, but of the remaining eight cows, only one got in call during treatment.

In our other stable we have also used yeast In one case a heifer was bred seventeen times and operated upon several times for the purpose of "opening her up," without results. She was treated with yeast, and held to the eighteenth service, producing a healthy calf in due time.

"Another heifer was bred five times without getting in calf. At the sixth period of heat she was given the yeast treatment, but not bred. At the seventh period of heat she was treated again and bred, and held to this service.

"Three other heifers were treated with yeast several times, and failed to breed. One of these was slaughtered, and the post-mortem showed that the entrance to the uterus was completely closed. The other two were sold for export, so that no post-mortem examination was made.

These results decidedly favor the yeast treatment, but we have no means of knowing what would have been the result had the yeast treat ment not been used. The following three cases will illustrate this point

1. A Shorthorn heifer, bred seven times without result, held to the eighth service.

2. An Angus heifer, bred seven times without result, held to the eighth service.

'3. A Hereford heifer, bred seven times without result, held to the eighth service.

'None of these heifers received any treatment whatever, yet they all held to the eighth service If we had treated these heifers, the treatment would have got credit from most people. Further, many people would have given these heifers up as non-breeders before the eighth service was reached. These cases show how easy it is to draw erroneous conclusions. No doubt, failure to breed may be due to a number of different causes, and the effectiveness of a given remedy will depend upon its ability to overcome the conditions which prevent conception. It seems only reasonable to assume that no one remedy could be effective in all cases, and while the yeast treatment may be of use in certain cases, it is certainly not effective in all. So far as our experience goes, we do not know whether the yeast was of service or whether the cases where it appeared to be beneficial were merely coincidences, and I can see no way of settling

J. H. Grisdale, Agriculturist, Central Experimental Farm, Ottawa, writes :

We have tried the yeast treatment here on

JUNE

Editor

While farmers serve cr heavily to the e poses. The l

cow, th any oth is a big maturer and feed

being an While try is e the two

one of o beef bre spring f laugh (

thing th of a He The

My a good, so with a of destr be well

1 hay all gave they near

ing thes

NOW. and hei in dairy a satisf with thi of them

Middle

queror. of sheep the Sout have con Southdo long sin ton, and he goes proceed

* * *

It is questionable whether any useful end would be served in making a distinct breed of the hunter. It is doubtful if foundation stock for such a breed could be secured which could be depended on to reproduce the type and qualities required in the hunter. And yet there seems no reason why horses of hunter type should not be as easily bred as horses of draft type, harness type, or any of the other distinct types into which the equine family has been divided. They are a class of horse for which good demand exists in England, and when a man succeeds in raising a well-made horse with a back that won't break when he is sent over the jumps with a weight up of 175 pounds or so, with legs that will stand the strain the animal is put to in cross-country work jumping hedges and ditches, going over soft ground, up hill and down, and keeping up a galloping pace for miles at a stretch--when he produces a horse of the type, quality and stamina to do this, he has an animal that is worth some money in England, or any part of the world where horseflesh for riding purposes has any particular value.

Hunters usually are the get of Thoroughbred sires. It is generally agreed that Thoroughbred the cow or mare is expected to come in heat.

garding the effect of what is known as the yeast treatment for mares and cows failing to breed. used it with apparent success have also been received, while, as was to be expected, as many or more unsuccessful experiences have been reported. The theory upon which treatment is based is that sort, that give rise to an acrid condition of the secretions of the generative organs, which is destructive to the female ova and male spermatozoa. The yeast organisms when introduced into the vagina are supposed to invade every part of the female generative organs, destroy all bacterial life and incidentally neutralize the acid condition referred It has also been claimed by some that this treatment is effective in destroying the germs ontagious abortion, when used after abortion has taken place, thus serving as a preventive of re currence of the disease, though we have no reliable evidence to that effect. The preparation for the treatment, which has been repeatedly published in these columns, is to stir to a paste with a little warm water one cake of compressed yeast and allow it to stand in a moderately warm room for twelve hours, at the end of which time stir in a pint of freshly-boiled lukewarm water, and al low to stand as before for another eight or twelve hours, when the mixture will be ready for use by being simply injected into the vagina by means of a large syringe, after first flushing the passage with warm water. Make this injection when the animal is first seen in season, and have her bred when the period of season is about over. In obstinate cases, first open the mouth of the womb with the forefinger, then inject the mixture into the vagina, not the womb. Repeat the treatment at each period of heat until the animal conceives Prepare the mixture 24 hours ahead of the time

cessful-that is, the cow held after the treatment -and in the other case it was not successful, so 1 am not prepared to say that it is a good treat-

It is, however, a very simple treatment, and one that would be worth trying by any farmer who found himself with a cow somewhat shy as

Western Ranch Industry Languishing.

At the Western Live-stock Growers' annual meeting at Medicine Hat, on May 12th, the wane of the cattle industry of the West was the main topic of discussion, and various opinions were ex pressed as to what action the ranchers and stockusen should take. The following resolution was unanimously passed :

" That this association desires once again to place itself on record that it considers it absolutely necessary in order to safeguard what remains of the cattle-raising industry, that the tenure of grazing leases shall be made more permanent ; that when a grazing lease is granted it shall not be liable to cancellation at the will of the Minister of the Interior. We would recomnend that grazing leases shall be made for at least a period of ten years, and that when once granted they shall be permanent for the said period, existing leases to be brought under similar

Officers were elected for the year : President. Walter Huckvale, Medicine Hat; First Vice-President, George Lane, Pekisko; Second Vice-Presi-dent, A. F. Cross, Calgary. Executive Committee. P. Burns and W. R. Hull, Calgary ; Howell Harris and A. J. McLean, Lethbridge; H. Eckford and J. S. Brown, High River; J. Lineham, A. P. Day and W. A. Taylor, Medicine Hat; E. H. Man-II Macheed II. M. Hatfield, Pincher Creek; A. R Mellowald and G. Pemberton, Willow Creek; A. J. Day and D. J. Wylie, Maple Creek.

O and to o for the f i keen b

> to the fi The F breeds, e breeds o

 $a_{I,0}$

0115

nt,

ith

WS

nth

iin

at-

h-

nt

nt

er,

ed.

us

be

nt.

ne

he

nd

in

k

he 🜑

P

out 🚺

THE FARMER'S ADVOCATE.

Holstein-Hereford Cross.

Editor "The Farmer's Advocate

While dairying gives so remunerative returns. farmers are going to stick to dairying, and deserve credit for so doing. The beef industry is heavily handicapped at the present time, owing to the exclusive use of dairy breeds for dairy purpose

The Holstein is apparently the favorite factory cow, therefore in numbers is much in advance of any other breed. The Holstein of the present day is a big, roomy, well-built animal, and an early maturer, but lacks the fine points that the butcher and feeder desire; a Holstein in a lot of stockers being an eyesore and a detriment in the bunch.

While dairying is profitable, yet the beef industry is equally profitable. Now, why not combine the two to a limited extent at least, by crossing one of our best dairy breeds with one of our best heef breeds ? Why destroy so many calves every spring for no returns except the hide ?

To our dairy friends let us look for help in solving the beef scarcity. Instead of breeding the Holstein for milk alone, breed for beef calves also. I imagine I hear some old Shorthorn breeders laugh outright at such idiocy in expecting anything that would even approach the beef type out of a Holstein cow

The Hereford is an early-maturing animal, carrying a heavy carcass of the finest beef, and stamps its characteristics wherever crossed

My advice to dairymen who have a herd of good, square-built Holstein cows, is to cross them with a heavy pure-bred Hereford bull, and instead of destroying the calves raise them, and you will be well pleased with the income derived from selling these calves in the fall.

I have had several stockers of this cross, and all gave very satisfactory results, being rapid growers and early maturers of a good beef type; they nearly always have the Hereford markings.

Now, I have no axe to grind, as I buy steers and heifers in the fall to feed and run on grass the following summer, and owing to the increase in dairy breeds, find great difficulty in picking up a satisfactory bunch, but feel so well satisfied with this cross that I would put in a stable full $% \left[\left({{{\rm{s}}_{\rm{s}}} \right)^2} \right]$ of them could they only be found.

EDW. DUNN. Middlesex Co., Ont.

The Hampshire Sheep.

By Geo. L. Telfer.

To write the history of this breed would lead us back almost to the time of William the Conqueror. About this time there existed two breeds of sheep that thrived well on the chalk lands of the South downs of England, and from these sheep have come the now splendid mutton breeds, the The former have Southdown and Hampshire. long since become one of the leaders for fine mutton, and the Hampshire has proved that wherever he goes he finds admirers, whether it is on the block or in the show-yard, where he is, with good fitting, a remarkably attractive animal. But, to proceed with his history, the Hampshire was found a larger and coarser sheep than his anstronger and better land, and thus they found their homes on the heavier lands of Hampshire Wiltshire, and Berkshire. There was at this time a great variety, some with dark faces, others spotted, and with wool running from fine to very coarse, until about 1815 to 1835, when a class of sheep was desired that would thrive well on exposed pastures, and, when put on feed, would take on flesh of good quality, and these flocks, crossed with the Southdown, were found to fill the bill. was the foundation on which the Hampshire breed was formed. It then remained for some influential men to go on and improve and boom the breed. Foremost amongst these was Mr. Humphrey, of Oak Ash, a man who possessed the genius equired in an improver of stock. Along with and Morrison, of Fonthill. In 1854 a South down ram was purchased from Jonas Webb, and to overcome this, only the largest ewes were Shred, and by careful selections from time to time least sign of weakness or off type were marked for the feeding pen, and only the best were kept as breeders. In 1868, Mr. Humphrey died, and from 10 to 60 guineas each, when Mr. Rawlings a keen buyer, took up the work of building up the breed, and in later years the wonderful qualities of this now famous breed because known, and it can truly be said no breed has come so rapidly to the front

to 325 pounds, and ewes from 175 to 225 pounds. The ewes are great milkers, and thus produce heavy, early-maturing lambs for the spring mar-The Hampshire should have wool somekets what after the type of the Shropshire, clean from fibre, coming down to the eyes and on hind legs. Legs, face and ears should be a uniform black.

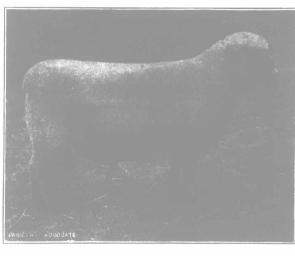
This breed is well adapted to either pasture or pen feeding, and has stood well to the front in all the leading fat-stock shows in England and other places, and the Hampshires are possibly bringing higher prices, and are more sought after, than any other breed at the present time Brant Co., Ont.

THE FARM.

Believes in Large Corn Ears.

Editor "The Farmer's Advocate

In justice to myself, I can hardly let the criticisms of T. S. Biggar and R. H. Abraham, on my former letter, go without a short reply. In the first place, I want to put myself on record as being in sympathy with the aims of the Corngrowers' Association, of which I am a member,



Hampshire Down Ram

and would like to express my appreciation of the efforts of Mr. McKenney and the Department of Agriculture in their successful conduct of the corn show. I don't know that I directly criticised the judging there, though my remarks could corn hardly be construed as endorsing the same. Above all things, in matters which affect our common interests as farmers, let us be fair in our discussions, and not assume that people are grieving or lamenting, as Mr. Abraham did in his letter re-specting myself. I can assure Mr. Abraham that the individual who has an abundance of good sound corn suitable for seed has no occasion to lament or even envy the other fellow who gets a little prize money and has no corn to speak of suitable for seed purposes

3 ft. 8 in. is the regulation distance. If he does not use a planter such as above, but puts his corn in with a spud planter, he is certainly behind the times in corn-growing.

Corn planted 3 it. 8 in. each way, which is the almost universal distance in Essex, gives 3,240 hills to the acre, instead of 3,556. But how foolish to speculate on an absolutely uniform size of ears. Did Mr. Biggar or Mr. Abraham ever see a field, or even a hill or a half-dozen hills, in which the ears were all of uniform size or weight? Did either of these gentlemen ever see a field, or even a small patch, in which there were not barren stalks? How can we expect to get ears of an average weight, of, say, ten ounces, except by having a large number weighing a pound or over? You must have the big ears to make up for the nubbins and barren stalks. You cannot get the big crop without big ears, of, say, a pound or more

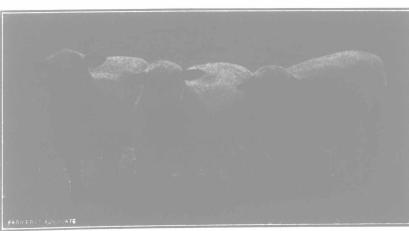
Now, a word as to early maturity. I deny emphatically that the climate in this county is not sufficiently long and warm to produce the dent varieties, such as are commonly grown here to their fullest development, if planted before the first of June. I planted large White-cap myself last year on the 15th day of June, and there was not a soft nubbin in the field. I have planted it on the 19th of June with the same result, and I can give the name of a farmer within four miles of Kingsville, Essex Co., who planted the same variety on the first day of July, 1889, and husked 125 bushels of ears of sound corn to the acre, and he always selects the large ears for seed

Of course, I know it is a more risky business to grow corn in some parts of Kent County. was up in the north-east part of Kent in 1907, at husking time, and it was surely discouraging to see the havoc that had been wrought by spring frosts after the corn was up. I went to the Western Fair last fall, and from Thamesville to about Glencoe the corn had been frozen and the leaves were all bleached out. The above remarks do not apply to the south and south-western parts of Kent County.

Again, in respect to the theory that medium or small ears or tips of ears have a tendency to earlier maturity than the large ones, I cannot accept it. Having been born and reared on the farm, and actively engaged or closely identified with the growing of corn nearly all my life, my experience entirely disproves this theory. I have in my earlier life, before I came to Essex, husked corn containing a goodly number of immature The larger ears were invariably the ripest, ears. and the soft corn was almost entirely among the small ears or nubbins. I would suggest that the better way to procure an early-maturing strain of any variety of corn would be to go through the field when the crop is ripening and choose for seed those ears which show marked characteristics of early maturity; continue this selection for a term of years, and thus certainly achieve a greater success than by an indiscriminate selection of medium-sized ears.

Judging corn is like judging everything else. Two men take their corn to Guelph. One man has little short ears, six or seven inches in length; the other shows ten ears, as perfect as you could wish to see, but about two The man with inches longer. the small corn gets the first prize, the other one gets the second. They take the same corn to Essex and the decision is reversed, which would certainly not have been the case had the second party chanced to have selected ears longer than ten inches. The good book says prove all things and hold fast that which is good. I would suggest that my critics test this matter of yield and earliness from large ears versus small ears. If it can be shown by a series of experiments conducted over a term of years, that corn seed selected from medium ears, say 8 inches in length, will produce an earlier and an equally or a more productive strain from the same variety, I will not be backward in making due acknowledgment of my error.

949



Hampshire Down Shearling Ewes. First at Royal Show, England

I simply stated that all ears over nine, or possibly ten, inches in length were rejected, and that if you could grow ears weighing two pounds each you would stand no chance for a prize with ears of that size. I simply made this statement to show that large ears, regardless of all other considerations, were ruled out. How Mr. Abraham could stretch his imagination to the point of assuming that a two-pound ear was my ideal in corn-growing, is something not warranted by the

I never place my ideals in the realm of impos sibilities, and consider that a two-pound ear of corn is considerably beyond the limit of attainthe nampshire is the neaviest of the pown ment with the varieties adapted to this climate, breeds, excelled in weight only by the beavier. If Mr Abraham uses a two-horse planter with breeds of the long-wooled varieties. Mature check rower, he plants his corn 3 ft. 8 in, apart runs, in good condition, chooled weigh from 260 each way, unless he has given a special order as

Anyone can grow small or medium ears of A poor soil with good culture, or a good soil with poor culture, will not grow big crops of anything. For the ambitious farmer who feeds his land and gives it the best possible cultivation to be compelled to exhibit his small corn in order to compete with his neighbor whose land is leaner and not so well tilled, is not encourag-Success will never come by ing to good farming. low ideals and lack of ambition to excel in whatever one undertakes

Before closing I would like to compliment Mr. Biggar on his reference to drainage. His remarks on this point are very commendable, as drainage in this county is an all-important consideration.

If we cannot "agree on the other matters discussed, we certainly can agree to disagree Essex Co., Ont. L. C. PALMER.

Cultivation of Corn.

Editor "The Farmer's Advocate"

950

In growing a crop of corn we try to conform our doings to the furtherance of the demands of plant growth. The conditions of growth are five, viz., warmth, air, moisture, plant food and sunlight. Sunlight is provided for by planting 42 inches apart in hills, aiming at about 3 plants to the hill, which, however, may need six seeds planted. Our observations are that too many growers of corn do not provide for sufficient sunlight.

As to plant food, that must be provided for in a proper system of farm practice, and if not right, cannot be remedied all at once; but a good clover sod and fresh barnyard manure abund ly supplied will give a humifying condition in the soil which is quite favorable. The three factors still left, as well as the humifying of the vegetable matter in the soil, are all promoted by thorough and consistent tillage or surface cultivation. The proper cultivation of the corn is the most immediately effective condition the farmer has at his control, and in our practice we have never felt that it was overdone, though we have seen considerable ineffective cultivation.

I will not say how often a field of corn should be cultivated, but I have seen men cultivate two, three or more times in succession when once was sufficient, and then neglect cultivation for weeks after another cultivation should have been given, and thus lose the real benefits that should have come from judicious cultivation. The benefits depend not so much upon the number of cultivations given as upon the timeliness of doing the work, and for warmth, air, moisture, and the benefits these bring, we aim at never allowing a crusted or compacted surface to remain unbroken. The hoe should be used early and close about the plants; later tillage must recede from the plant, and also become slightly more shallow, but good judgment is the only exact rule to lay down. We use a two-horse cultivator while the plants are not too large; if the corn is growing fast and succulent it will easily break off except during the heat of the day, when it is a little wilty, it will stand more rough usage; but when too large a one-horse cultivator does the work, until the tassels appear and the horse is hid from view. A two-horse cultivator should go over one and a quarter acres per hour, or more, and a one-horse outfit about half that

The amount of man-and-horse labor to take care of an acre of corn will vary considerably with weather and conditions, but with hand hoeing and all, a man and a horse for one day to the acre will be more than is usually expended on the corn crop. We have never had a weeder, and, usually, with our system of keeping both the sod and manure in the surface son, there is too the roots. They move above a normal much on the surface to drag with the teeth of the few inches below the surface, and the more loose ordinary harrow to do much dragging after the the soil is the easier it is for them to do so. They

THE FARMER'S ADVOCATE.

Wireworms and White Grubs.

Both of these destructive insect grubs were very numerous in Ontario last year, and from enquiries received at this office this spring it is to be feared that their ravages will be continued this season

These pests are not usually found to any serious extent in land which is worked in a regular rotation of crops, particularly if the rotation be a short one. In land that has been in grass for many years the white grubs occasionally become so plentiful as to kill all the grass over a large percentage of the area, as happened to many Western Ontario pasture fields last year. But even where their presence is not made known by the destruction of grass, when such old sod fields are plowed up and put into root or cereal crops, the havoc that white grubs and wireworms work on the crops sown or planted, especially potatoes, is very great indeed. Unfortunately, the damage is not confined to one season alone. During the first summer after being plowed these creatures are able to get considerable sustenance from the roots and rootstalks of the grass which has been plowed under. The second season, when none of this food is available, the attack is altogether on the roots of the growing crop, and frequently more loss is occasioned than in the previous year

Dr. C. Gordon Hewitt, Dominion Entomologist

SITTER the fit has a second second

Wireworms (7, 8, 9): pupa (10)-enlarged, click beetle (5 natural size; 2, 3, 6-enlarged).

in Lis clidence before the Select Standing Committee on Agriculture and Colonization last December, gave much detailed information concerning the life history and habits of wireworms and white grubs, from which we cull some points which may be useful to "The Farmer's Advocate" readers

WIREWORMS.

Wireworms are the larvæ of the family of beetles known as " click beetles," those insects which when turned on their backs spring up into the air with a sharp click and regain their normal position Their life history is as follows : The eggs are laid by the beetle in the spring or summer, and laid by the beetle in the spring or summer, and inches high. I count on covering six acres then the larvae hatch out and begin to feed on corn in a day with the cultivator. sod and manure in the surface soil, there is too the roots. They move about at a depth of a

FOUNDED 1866

starvation and being twice exposed to winter frosts most of the insects will be exterminated. Where white grubs abound the turning of hogs into newly-plowed land is strongly advised.

Extensive experiments made by Prof. Forbes in Illinois go to show the difficulty of clearing wire vorms out of the land, and scarcely agree with Dr. Hewitt's ideas. He found that coating seed grain with poison, the surface application of salt and other chemicals, and even the attempt to starve them out by a clean fallow-a costly method at best-were practically useless. Cultural methods were the only ones of much avail.

Summer Cultivation of Hoed Crops

The amount and kind of summer cultivation given to corn and root crops is of great impor tance, both to the crops themselves and to those Control of moisture, liberation of plant food and destruction of weeds, the securing of these providing the best soil conditions for plant de velopment. Generally speaking, the more cultivation, the greater will be the crop, and "excessive cultivation" is hard to imagine, except, perhaps, in the stiffest clay, where there might be a tendency to run together and hake in the following season.

To secure the above-mentioned object, the implements I use are the harrow, cultivator and hoe. and I shall briefly describe our method of cultivating these crops. The roots are sown on raised drills, 27 inches apart, and the drills are rolled with the land roller four or five days after sowing. The one-horse scutter is started when the plants are about two inches high, and used twice before thinning, which is done when plants are about three inches high. We calculate to cultivate five or six times through the season, es pecially after heavy rains, going deeply at first, and shallower as the growing season progresses We how the roots twice, the second time about two weeks after the first. In a very weedy piece of land, a third hoeing would be very advan-

With ensilage corn, the harrow is used when the seed has well sprouted, and again when the plants times before the first cultivating. The two-horse ing, going about four inches deep, cultivating close to the plants, the shields preventing the small plants being covered by the soil. We use this implement frequently until the corn is too high for its use, each succeeding cultivation being slightly shallower than the previous one, and slightly farther from the row. After this, the one-horse scuffler is used, and continued every two weeks until the tassels appear, and, as before. gradually getting shallower, just to keep a con stant soil mulch. It is important to stir the sol We hoe the corn when it is about four inches high, and again at about 18

JUNE the d

> ucts keep stock 2.

haps is, ... it be showi and a from prope

tages

we w

3. to be witho witho OITYW young popul to be ing n -4. is get

be rea weeds which pay a and t maste

caliti

which a nur

Editor

work) with I. is

\$1.25 weigh

corn is up; but, however it be prevented, there live in the worm condition for two, three or four must no crust remain on the corn ground.

Corn Cultivation in Essex.

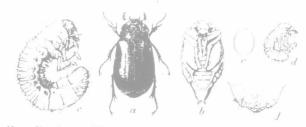
"The Farmer's Advocate

of growing crops, there are a great many things to be considered. The objects are : Conserving of moisture, keeping down weeds. Excessive cultivation may be done, but so far as I know, it has not been practiced. Where land is not drained

We cultivate corn four or five times during the season; the last few years we have been later in getting corn planted, so there is less time for cultivation. We use single and two-horse cultivators, doing from three to six acres each day according to ground and height of corn. We do not use a weeder. About three inches in the be ginning of the season, and about two inches in the end, is depth of cultivation.

We cultivate until corn is tasselled, and some times longer. We usually go through corn with hoe, and remove weeds left by cultivator - For the summer cultivation of an acre of corn it takes days' labor for a man. I am not able to answer this latter question in a satisfactory manner, never having kept account of labor, time, etc. There is a vast amount of difference in time spent, as the ground, when not properly pre-pared s harder to cultivate; and again, when

years, according to species, and when fully grown



White Grub: (a) beetle,

go a fittle deeper into the soil and enter the pupa stage, from which in a few weeks they change into the perfect insect.

WHITE GRUBS.

The white grub is the larva of the June bug. and, like the wireworm, has a life history which

trate of soda, superphosphate and kainit have al

quires by this plan, but I would estimate it would take two days' work for a team of horses. J M MCCALLUM

Some Farm Problems.

The subject for discussion at the recent meeting of the Brant Township Farmers' Club was, " The Greatest Farm Problem of To-day," and it seems there is more than one "greatest farm problem." Several were discussed, and the following is a

1. The Market Problem - Everyone has personal problems of his own, but this is one in which all farmers cannot help but he interested. In ing to solve. In the first place, the farmer should study the markets a little more. He should have an idea of the surply and demand of his products. He should know how much of a certain product is in existence in the country, and whether

an in beauti would

and h we ha

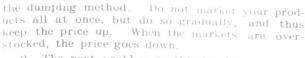
FUJI MICRO SAFETY -

ops

tion son. an-

the

IC.



JUNE 9, 1910

2. The next problem in this locality, and perhaps also in others, is the rural telephone. It is admitted that the telephone, although not a necessity, is a great convenience. But the problem Shall it be an independent company, or shall it be the Bell Telephone Company?" It was shown that independent companies can be made, and are a success, and are paying dividends of from 7 to 11 per cent. to their stockholders. Both propositions have their advantages and disadvantages, but as this is not really a farm problem, we will have to pass it by.

3. The Labor Question.-Farm labor is getting to be very scarce, and many would have to do without help if it were not for the British immigrants coming in. The majority of these are without farm experience, and it requires a lot of patience and time to get them to be of any prac-Just what this kind of labor is worth, is one of the problems that was left unsettled. As to the reason why the farm population is going cityward, one member said that several large cities had committees whose aim it is to attract young men to their city, in order to swell their population. Another member suggested that education was the cause. But to the writer it seems to be the lack of the proper education that is making many leave the farm.

4. Another problem is the weed problem. This is getting to be quite a serious one in some localities. In many cases summer-fallowing has to be resorted to to somewhat lessen the number of weeds. This, of course, means the loss of a year's We would, therefore, warn those sections which are comparatively free of noxious weeds, to pay attention to their clover and timothy seeds, and tackle the weed problem before it gets the mastery

5. Another serious pest is the white grub, which is doing much damage. It is thought that a number of oat fields will have to be resown, and large patches in pastures are entirely destroyed. No practical remedy is known to combat this pest. Bruce Co., Ont A. E. W.

THE DAIRY.

Alfalfa for Dairy Cows.

Editor "The Farmer's Advocate "

We have fed our cows for the past three winters exclusively (except in some experimental work) upon corn silage, roots and alfalfa hay, with excellent results, both as regards yield of milk and condition of the animals.

Figuring the cost of producing corn silage at \$1.25 per ton, roots at four cents per bushel and alfalfa hay at \$4 per ton, we fed three cows on a test for one week, where all the feed was weighed and the milk weighed and tested. Then increase the output and improve the juality of was allowed to intervene, during which the cows were fed oat chop gradually until each ount the cost of producing oats at 21 cents perbushel, which was one-half of the market price at the time of the test, being in the winter of 1909

THE FARMER'S ADVOCATE

Dairy Cow Queries.

What is the object in keeping a cow ?

Is it simply to consume the crops grown in the

Is it to supply homemade fertilizer for the

Is it to give the hired man another chore ? Is it not, rather, to produce plenty of good

To be of real service to mankind by converting feed that he cannot use into nourishing, appetiz-

ing food ? While being kept for this purpose, does she earn

Does she pay for her keep ?

Would you be better off if you sold the feed, instead of keeping some of the cows that you now have making a pretence of using it profitably ?

Does each one of your cows produce milk at a cheaper rate per hundred pounds than the factory

Does each cow in your herd produce milk or butter fat at a good profit above the cost of feed? Do you think so, or just make a guess at it, or do you know for certain?

How else is your labor to be paid for ?

Do you keep records, so as to find out these things, or are you content to keep a few poor cows in a behind-the-times style?

Men who used to get only 3,500 pounds of milk and 133 pounds fat per cow, are now getting 4,900 pounds of milk and 186 pounds fat, since beginning to keep records

Would you not be glad to obtain a similar increase of over 40 per cent.?

Then, keep records. C. F. W.

Dairymen's Convention at Saskatoon.

The farmers of the Prairie Province of Saskatchewan are being instructed in the advantages A Government enquiry into the condition of the hog-raising industry was conducted in April, evidently with the view of increasing information on that line of business, and so booming it to some extent, and now, as a complement to that action, there has actually been held recently an enthusiastic dairymen's convention in Saskatoon.

It appears from the address of the Commissioner of Agriculture, Hon. W. R. Motherwell, that in the Dominion Government's campaign in 1897, which was conducted with the idea of diverting attention from exclusive grain-growing and assisting farmers during hard times, many mistakes were made. Creameries were established which had no chance of success. They should profit by those mistakes and not unduly criticise. The policy of the Provincial Government since the passing of the Dairy Act of 1906, had been to establish creameries only where they would be suc-

Mr. Motherwell said that butter could not be made on enthusiasm. It required cream. He appealed to the farmers to welcome the inspector and support the Department in its endeavor to the butter made in Saskatchewar

Dean Rutherford, who spoke on the manner of feeding cows to get the most out of them, said they should have good feed all the year round. He advised the sowing of grain mixtures at difierent times for pasture.

951

A significant statement was made by W. A Wilson, Superintendent of Dairying, to the effect that Western dairymen were not supplying 40 per cent. of the Western demand for butter.

Among others, resolutions were passed expressing confidence in the Agricultural Department's policy in regard to the management of creameries, urging the Government to provide a system of cold storage for the Province, and also to give assistance in the introduction of improved dairy stock.

So successful had been the convention that it was agreed that it should be made an annual

Prepare for Warm Weather.

Western Ontario cheese, up to June 1st, have, with few exceptions, been of fine quality, and, when everything is going along smoothly, we are liable to get a little careless; then warm weather suddenly comes on, difficulties immediately arise, and we have some of the old troubles to $\ensuremath{\mathsf{contend}}$ with, and perhaps a few new ones. It usually takes some little time to adjust ourselves to the changed condition. The milk from some patrons arrives at the factory overripe and tainted; some open, off-flavored cheese are reported, and we suddenly wake up to the fact that these difficulties must be met and overcome at once if we are to keep up the quality of our cheese during the hot months. Nature does so much for us in cool weather in the way of cooling the milk, preventing taints, heated cheese, and so forth, that we hardly realize the necessity for greater care during warm weather, until we are brought up short with complaints on quality.

THE PATRONS.

Build a milk-house, containing a tank preferably of cement, in which to cool the milk. It will cost very little, and will save much time and worry. Cool the night's milk as quickly as possible to 60 degrees, by placing the cans in the tank of cold water. As soon as milking is finished, put the covers on the cans. Milk does not require dipping, or pouring. Immediate cooling every night is the important point. If you cannot afford a milk house, at least provide a tank or tub in which to place the cans, surrounded with cold water. If you have ice, use in the water ; if not, change the water a sufficient number of times to insure proper cooling. Use a thermometer; it costs very little, and will pay.

Encourage your neighbor to follow these meth-Point out to him that when the milk arrives at the factory it must be mixed, and that you do not intend he shall lower the quality of your milk by neglecting his own.

Pay particular attention to washing and scalding the cans, use a brush for washing. Milk cannot be free from taint, and in proper condition for making finest cheese, if stored in a can not properly washed. Discard the old rusty can. No erson can wash it properly. It has served

I do not think they were produced for that sum the third week the results were an increase of 15 per cent. in the amount of milk obtained, at an increased cost of $25\frac{1}{2}$ per cent., which was $10\frac{1}{2}$ per cent. in favor of the silage, roots and alfalfa without the oats. Nearly every farmer who has fed alfalfa speaks highly of it, but occasionally 1 have met those who say they get no better re sults from it than when they feed well-saved red clover hay, and they would add, "The alfalfa is beautiful and green." Upon examination we would find the alfalia green, but the leaves nearly all off the stems. Chemists tell us that 44 pounds of alfalfa leaves contain as much protein as 100 pounds of stems. If such is the case these men have by their actual work in feeding demonstrated the correctness of the chemists

We have grown alfalia for the past 14 years and have cut it three times each year, with the exception of two years. When we cut three crops in the season, I think we are safe in stating that we have had on an average at least six tons to

It is hard to say what is the average duration of a profitable stand of alfalfa. We have been growing it only for about seven or eight years what I consider profitably, and our longest ferm for a stand has been five years, but we have fields now that hid fair to do much better. Our nonnow that hid fair to do note better. Our non-success in the first years of a growing was from lack of knowledge how to take care of the belds during the fall and watter 4 aw a field last summer that had been down for sixteen year, and was still in excellent condition Ontario $C_{0,i}$ Out — 1 & GLENDINSING

H. C. Lisle, M. L. A., Lloydminster, claimed time, and since becoming rusty has lost enough items had been cows and pigs.

that the mixed farmer was generally the most dollars through tainted milk to buy many new successful. In his own experience the pertopaying cans. No cheesemaker can possibly make fine cheese from milk that is overripe or tainted. Then,

 $\cdot \mathbf{R}^{i}$



Potato-planter at Work

THE FARMER'S ADVOCATE.

why attempt to supply milk that has not been properly cooled and stored? It means poor cheese, and less cheese per 100 pounds of milk.

Let every patron do his best to secure for his factory a reputation for finest cheese, which can only be brought about by each patron exercising care in the production of the milk,

Do not be annoyed, and talk of going to some other factory, if some morning the cheesemaker returns the milk. He would not do it if he thought it possible to make good cheese from it. He must be the judge of the milk, and, although anxious to secure all the milk he can get of good quality, yet, in justice to himself and to the other patrons, he is obliged to reject sour and tainted milk. He has no "grudge" against you. member, it is far better that a few cans of tainted milk should be rejected than that a whole vat of milk should be spoiled. The maker at the other factory has no desire to take in sour or tainted milk; then, why expect him to accept what your own maker tells you is unfit for making fine Instead, then, of finding fault because cheese ? the milk is returned, look for the cause, and remove it.

The dairy instructors will come to the farm and help the patrons in every way possible, giving sug gestions, and offering remedies for difficulties which may be met with in handling the milk.

THE CREESEMAKER.

Keep everything in and about the factory clean and tidy, then insist on the patron sending sweet, clean milk in bright cans. If the whey has to be returned, send it home clean and sweet, properly pasteurized, if possible.

Be firm, but courteous, with the patron. man who loses his temper is very likely to say things that he will afterwards regret. milk that in your judgment will not make fine cheese. It is true that in some localities competition is keen, and a few patrons may, when the milk is rejected, talk about disposing of the milk in some other way, but this does not do away with the fact that milk is an article of food and must receive some care, whether it is made into cheese or some other dairy product.

Do not take in milk rejected at another fac You are not likely to make any better tory. cheese out of it than the maker who first re Co-operate with your neighboring jected it. makers on this point.

Use the curd test on tainted milk, and explain to the patron what causes the trouble. Do your best to impress on the mind of the patron the importance of cooling the milk and clean methods in production.

Visit as many of your patrons as possible have the instructor do so, also. A few words of advice from yourself or the instructor will often save many dollars. It is the business of the instructor to improve the quality of the milk, of the cheese, and general dairy conditions. Help him all you can. Remember, the future of the business depends on quality

Look out for the open, weak-bodied cheese. Be quick to note the necessary changes in method to prevent this condition.

Let everyone put forth his best efforts to make or used for making nuclei.

prepared by the author with a thorough realization of the need of more accurate illustrations of the organs of the bee, especially of the internal organs

This bulletin can be secured only from the Superintendent of Documents, Government Printing Office, as the Department's supply is by law limited to an edition barely sufficient to furnish libraries and the collaborators of the Department with copies.

System Necessary for Success.

By Morley Pettit, Provincial Apiarist, Ontario Agricultural College

Every beekeeper will admit that bees require a great deal of attention in the swarming season. If one vard is not to take all the attention, to the exclusion of other important interests, the apiary work must be whipped into line, with a well-regulated system. It is for the sake of getting a system that we recommend the weekly examination of each colony. This does not mean that every week every comb is to be taken out and examined, whether it needs it or not, but that each hive is to receive weekly what attention, ex-

It has been found that, by adopting some system of management in this way, the bees can be left to themselves the balance of the week right in the swarming season, without loss. Provided. then, the apparist has sufficient help to do the weekly work of one apiary in one day, the number of apiaries to which he or she can give personal attention is equal to the average number of fine In localities where rain in days in the week. summer is not a factor, 6 apiaries of 100 or more hives each are cared for by one man and his assistants.

There are other systems of management for the prevention of swarming which may suit some people better than the one described in "The Farmer's Advocate" for May 19th. But, after all, it is not easy to get away from the weekly visit to the apiary. I have often thought that an outyard was safe for two weeks, but generally found that the neglect cost me more than the extra visit.

QUEEN CELLS

Now, in spite of all watchfulness and experienced care during the swarming season, hives will frequently be found with queen cells. three conditions under which queen cells are built (1) Under swarming impulse; (2) when the queen is failing, and is to be superseded; (3) when the queen has suddenly disappeared.

1. For Swarming .- Number one is natural and deliberate, and easy to detect. Cells are started in convenient places, lower edges of combs, holes in combs, and the like. When the desire to swarm is acquired, and persisted in, the final remedy is to take away all the combs of brood but the one which has the least brood, and give frames of wired foundation. This gives the condition of a natural swarm, and will usually satisfy the desire. The brood can be given to weaker colonies

a colony has built cells for the purpose of supersedure, and not from swarming impulse. The scarcity non-saarning system the cells cannot be left, be-cause the young queen will often take out a small swarm. Where indications point strongly to supersedure, the old queen should be killed, and only one, the best-looking, cell left in the hive. Good, large, capped cells, from either swarming impulse or supersedure, produce the best of queens. Spare cells can be saved by giving them to newly-made 3. For Requeening -Queens sometimes die suddenly from various causes. Then, cells are built or very young larvæ are found. These cells are aways easily distinguished, and this sudden queenlessness is proven by an entire absence of eggs and young larvae. All cells built under such conditions should be destroyed, as they are more than likely to produce poor queens. The colony is then hopelessly queenless. The best way to dis it with one having a queen. This is easily done. and spread over the frames a sheet of newspaper

queen-breeder, or good ripe cells of your own rearing, and proceed as follows :

FOUNDED 1866

First, examine the two combs of brood and destroy any cells that may have been started because of the excluder separation from the broodchamber. Do this carefully, so as not to drive the bees down out of the super. You now have in this super a proper nucleus, with hatching brood and young bees which will not return to the parent-hive, and which will easily accept a strange queen, and, because of the week's separa tion from the ueen, there is no open brood to perish from neglect. Now set the whole super gently off on a bottom board, contract the entrance to about two inches, introduce a queen or cell, and carry this new hive to its own stand, wherever desired. Nuclei should be made as early as possible, and not, as a rule. later than the middle of July. The safest way to introduce a new queen is to a nucleus, and the safest way to requeen a strong colony is to unite with a nucleus.

GARDEN & ORCHARD.

Some Good Old Apples.-IV.

In bringing up the names of some varieties of apples which are seldom planted in these days of commercialism, I speak more because of their real worth from the consumer's point of view than of their profit to the grower. For, until the public learns to distinguish between apples by reason of quality and flavor, instead of by outside appearance, such apples as the Baldwin will be the leaders; but may we not hope that in time, at least a small portion of the public will be seeking for the highest excellence in these respects, and he willing to pay a higher price, according to real value. Forty years ago, great ignorance pre-I remember a lady visitor from Toronto, in the year 1870, to whom I was pointing out the differ-ent apples in my occhard. "Why," said she, "I always thought there were just two varieties, the

In a recent article I spoke of the Lady Apple s a very choice little dessert apple, and perhaps I may be allowed to mention it again in this connection. It is a very old Roman kind, known in Italy as the Appian apple, and there so much esteemed that it gave rise to the proverb already quoted. "Omne malum malum, practer Appium malum," meaning "Every evil is evil except the Appian apple," being a play on the word " mal-I have seen trees in the Niagara district so that it is evidently very productive, but the tree is a very moderate grower, and could not be made profitable unless one were making a special business of growing fancy table apples. Possibly a dwarf orchard of them could be made a paying investment if the fruit were put in fancy packages and put them on the markets

The Swazie Pomme Grise is an apple that is too little grown. Its home is in the Niagara distract, and it is said to have originated with Col. somewhere near the Niagara River. ears ago, nearly every orchard thereabout included at least two or three trees, and in my big old tree, which we boys always claimed, and stored the fruit in the cellar for the Christmas season. I do not think we ever got more than three or four barrels in a season from that tree it was thought too valuable for home eating to be offered for sale with the other kinds, and so we kept the best at home. Many a time in recent years have I regretted my foolish haste to turn everything into gold, which led to the destruction of that fine old tree and the loss of its golden fruit, which to-day I cannot buy with and its br sk, rich and delicious aromatic flavor. It was below medium in size, deep yellow when ripe, mostly covered with cimnamon russet. Its season was from December to March. I do not know of any apple I would choose in preference for dessert, unless it be the Snow, and after Christmas the Snow must certainly give place to the Swazie. It is time we paid some attention to these good last of fruits, not for sale, but for home uses fully. There should always be a supply of nu ier and, if so planted will be to the owner the most

The

JUNE

1)1. remin that t been regula that t In vision of Eu

tor su

the A stock tended

ply als

this year's cheese the very best on record F. H.

APIARY.

The Anatomy of the Honeybee.

The U. S. Department of Agriculture's recent publication, on " The Anatomy of the Honeybee, (Bulletin 18, Tech. Series, Bureau of Entomology) embodies the results of detailed studies, and should prove of value as bringing to beekeepers reliable information concerning an insect of such great economoc importance, and also as furnishing a sound basis in devising new and improved practical manipulations. The subject has been for years the object of study of many careful students, but the popular demand for information has also induced untrained men to write accounts of bee anatomy containing numerous errors, and illustrated by drawings more artistic than accurate.

A'¹ practical manipulations of bees must de pend on an understanding of their behavior and stances, and this knowledge must rest ultimate ly on accurate information as to the structure of

gives a chapter on the "General External Struc-ture of Insects," and then, taking up the honey bee, he gives a detailed description of the head of the bee and its appendages; the thorax, and its appendages; the abdomen, wax glands, and sting fat, body and the genocytes, the nervous system

37

the Mir again (ing to

discover

to

THE FARMER'S ADVOCATE.

The New Destructive Insects and Pests Act, 1910.

Dr. C. Gordon Hewitt, Dominion Entomologist, reminds the public that by the passing of the Destructive Insects and Pests Act, the San Jose Scale Act is repealed. It will be seen, he says, that the new Act and regulations are of a wider character and of a far greater protective value to the fruit-grower and nurseryman. The fumigations regulations instituted under that Act have been incorporated in the new regulations, with certain alterations. Under the new fumigation regulations conifers will be fumigated. It is hoped that this will assist in preventing the introduction into nurseries of several species of woolly plant lice, which infest nursery stock, and which are carried in the same.

In addition to the fumigation regulations provision is made for :

1. The inspection at the points of destination of European nursery stock (which is still exempt from funigation), and such other stock as it may be deemed necessary to inspect.

2. The destruction of infested stock and packages, etc., containing the same, and compensation for such matter as may be destroyed.

3. The inspection of orchards and nurseries, and the treatment of infested vegetation.

4. The prohibition of the disposal in any way of vegetation infested with insects scheduled under the Act.

5. The notification of the presence of any of the insects, pests or diseases.

In view of the increasing amount of nursery stock imported through the port of Niagara Falls, the importation season for that port has been extended, and stock may now be imported between october 1st and May 1st.

The attention of importers of nursery stock is called particularly to regulation 5, under which notification must be given of the importation of nursery stock.

All nursery stock, including European and such stock as is exempt from fumigation, may be imported only during the periods specified under regulation 3.

By the terms of the Destructive Insects and Pests Act of 1910, above referred to, the Governor-in-Council may make such regulations as are deemed expedient to prevent the introduction or admission into Canada of any insect, pest, or disease destructive to vegetation. Such regulations may prohibit the importation of suspected shrubs, trees or vegetables, or provide terms under which they may be imported, inspected, treated or destroyed. They can be made to apply also to infected trees or vegetable matter in the country which can be ordered to be destroyed, or the sale prohibited. The Act provides for the appointment of inspectors to carry out regulations. For breaches of the Act a fine of \$100 may be imposed, or six months' imprisonment, or both fine and imprisonment.

The following are some of the regulations established by the Governor-in-Council under the provisions of the Act :

Regulation 1 defines "Inspector." Regulation 2 prohibits importation of all infested trees, Destructive Insects and Pests Act," which came into force May 11th, 1910, and which are appended to the memorandum. Goods imported contrary to the Act are to be detained, and the collector is to notify the importer to that effect, and also that the goods will be destroyed unless the importer gives instructions to the collector without delay to have the same returned.

Prohibited goods, if to be returned, should be exported out of Canada without delay, in bond, otherwise they are to be destroyed.

The way land values have been jumping in the Niagara fruit district is simply astonishing. Sale after sale is cited, till the visitor's head fairly swims. The Clerk of Clinton Township, County of Lincoln, a conservative-minded man, says real estate values in that township have quadrupled in the last ten years. One 64-acre farm, near Vineland, which sold four or five years ago for between five and six thousand dollars, recently changed hands at eighteen thousand. parcel of fifteen acres, without buildings, sold for a thousand an acre. By way of partial explanation of this sky-rocketing trend, we are informed by the Ontario Government's experts. who have been making a fruit survey of the township, that while the bearing peach trees number 32,000, the young trees not yet fruiting aggregate 64,000. The returns from fruit-growing, combined with its attractiveness and the desirability of the section from a residential standpoint, go to explain the inflation of values

POULTRY.

Co-operative Egg Circles Organized in Peterborough County.

Heads of two great Canadian transportation companies, the C. P. R., and the Allan S. S. Co. visited Macdonald College, P. Q., recently, and looked over the ground to see whether it would be feasible to establish a 50,000-hen poultry plant to furnish dependable eggs for their dining-cars and steamships. They do not desire to go into the poultry business for its own sake, but they want to insure a large supply of eggs on which they can depend. Cost is quite a secondary consideration, if they can get the goods, but with all the twenty-five millions of dollars worth of eggs, more or less, marketed in Canada each year, the produce firm which supplies the Allan Steamship Line confesses that it simply cannot get enough absolutely reliable, choice, fresh-laid eggs to meet this company's requirements.

The Montreal firm of Gunn & Langlois, who supply the Allan Company, have forty-five candlers working three hours overtime, receiving \$1.50 to \$2.00 per day apiece, in an expensive wareroom on St. Paul St., Montreal, grading eggs, and enough are dumped out of this warehouse each year to buy a township.

It is estimated that about 17 per cent. of the cost of the eggs entering commercial channels in Canada goes out as waste, a dead loss, assessed by the inexorable average of commerce upon the producers of good eggs.

selects (comprising about 40 per cent. of the whole), 16 cents for No. 1 grade (comprising about 50 per cent.), and 14 cents a pound for No. 2 (comprising the remaining ten per cent). A dealer who had refused to entertain an offer of the goods at this price, when he saw some of it exhibited at the Quebec Poultry and Pet Stock Winter Fair in Montreal, declared that if he had known that was the kind of stock offered him. it would not have been a question of price at all; it would have been a question of getting the stuff.

953

Gunn & Langlois, of Montreal, have been buying fat hens for the Montreal Hebrew trade, at 14 cents a pound, in Peterborough and other points from farmers. A local buyer has been working in the same county, paying 11 cents a pound for the same kind of stock, selling to Gunn & Langlois at 14 cents, and pocketing the difference as his toll. At the same time, Macdonald College is selling similar stock for 18 cents a pound, and broilers at \$2.00 a pair.

The nearer the farm the eggs are candled, the better. The time will soon come when farmers will be candling their own eggs.

The present system of marketing eggs is shamefully wasteful and unbusinesslike.

As soon as a poultry circle has a brand with an unimpeachable reputation, it can dictate its own prices.

These sensational, but well-authenticated statements, made by reputable men speaking from actual knowledge, are some of the cannon shots from a battery of argument which has aroused the people of Peterborough County, where the preliminary organization of five Egg Circles was accomplished last week. The movement is an outgrowth of the propaganda conducted by Prof. F. C. Elford, Poultry Manager of Macdonald College, Que., the Canadian apostle of co-operation as applied to poultry marketing, and father of that important organization known as the Poultryproducers' Association of Canada. The formation of these local branch associations in Peterborough. the first important strictly co-operative egg or poultry circles in Canada, was due to the initiative and energy of a level-headed poultry en-thusiast named John I. Brown, a native of Renfrew Co., Ont., who has recently become connected with the allied firms of Gunns' Limited, Toronto, and Gunn & Langlois, Montreal. Mr. Brown is a farmer's son who became interested in poultry, made a success of it, and has had considerable experience organizing the poultry industry on a somewhat different plan in the Ottawa Valley. One of his special missions in his present position is to organize the egg-and-produce business on a satisfactory co-operative basis, to the end that his firm may be able to secure a supply of reliable, choice-quality eggs and other produce to meet the large and growing demands of their trade. They have no desire to "hog" the business, and do not bind the egg circles to deal with them only, but naturally and reasonably expect, by fair treatment, to secure and retain a good share of the patronage from the circles they are directly instrumental in organizing. It is hoped that other firms will help to promote the movement in other localities. Mr. Brown selected Peterborough County as a starting point, and enlisted the ready Ontario Department of Agricul ture, through its Local Representative, H. C. Duff, B. S. A., stationed at Norwood, a town 20 miles east of Peterborough. They have had the very effective assistance of Prof. Elford, as well as H. B. Cowan, of Peterborough. By personal canvass and meetings, farmers in the vicinity of Peterborough have been interested, and persuaded to organize. This they have done with considerable The first of the five circles was started in the progressive dairying district of Central Smith, where, on the evening of Friday, June 3rd, a rally meeting was held, attended by editorial representatives of five leading agricultural papers of Canada, each of whom spoke briefly, following the organizers above mentioned, and local man, T. D. Young, president of No. 3 Circle. The meeting was presided over by J. A. Mc-Gregor, of Peterborough, president of Circle No. The secretary of this Circle is Wm. Scott. It 1 is the intention to continue the work in Peterborough until the county is well organized, after which it is proposed to branch out elsewhere. While starting in a modest way with the egg business, it is expected to branch out later and take in the poultry, the cheese and the bacon business, and other lines of produce. The method of organization and proposed plan of operation are very simple, and it would appear that the scheme is not too ambitious to succeed.

plants, etc., except as afterwards provided.

No. 3 provides that all nursery stock, including trees, shrubs, plants, vines, grafts, scions, cuttings or buds entering Canada shall be imported only through the ports and during the periods as follows: Vancouver, B. C., and Niagara Falls, Ont., from October 1st to May 1st, and Winnipeg, Man., and St. John, N. B., from March 15th to May 15th, and from September 26th to December 7th. At these points of entry stock must, with some exceptions, be fumigated before they can be taken out of bond. The exceptions include most greenhouse plants, all herbaceous perennials and bedding plants, bulbs and tubers, nursery stock originating in Europe, and cottonwood poplar from Dakota or Minnesota.

Importers of nursery stock must give notice to the Minister within five days of sending order, and again on arrival of shipment in Canada, according to regulation 5.

European stock may be allowed to proceed and be inspected at the point of destination, but must not be unpacked except in the presence of an insurflor.

Inspectors are given large powers as to the treatment or destruction of infested stock, etc., whether imported or found in the country, so that the insect, pest or disease may be exterminated. Compensation not exceeding two-thirds of value will be allowed where stuff is totally destroyed.

The Minister must be notified at once when any of the insects, pests or diseases specified are discovered

The following are named as those to which the let at present applies: San Jose scale, brown tail moth, woolly aphis, West Indian peach scale, typsy moth, potato canker and parasitic diseases of potato, branch or stem canker, gooseberry older and patter rust.

A memorandum has been sent out by the Comtaissioner of Customs to all collectors of customs, drawing attention to the regulations under "The All over America the system of indiscriminate buying of eggs has prevailed. This system must be changed, if we are to get the most out of the produce.

When taken in at the grocery store, the eggs, good, bad, and indifferent—for the grocer takes many he knows are bad, for fear of losing a customer—are put in a back shed, perhaps, along with some onions, from which they absorb odors through their porous shells, and are left here maybe a week, exposed to a temperature of 100 degrees, which starts incubation in fertile eggs.

After the collector has received perhaps a cent a dozen, and 2 to 6 cents charge has been paid for transportation, the wholesaler candles the eggs, and takes out 2 to 4 dozen spoiled ones from each case.

Eggs have two values—an intrinsic value, and a relative value. Two cases of eggs of good quality may have the same intrinsic value, but the one may have a relative value for high-class trade 50 per cent, above the other, because the eggs are uniform in size and color, and attractively put up.

From three to six middlemen are taking toll of expenses and profits out of the eggs between the producer and the consumer in our larger cities, where, by the way, the net price of eggs in the smaller centers is largely regulated. It is roughly estimated that, of the twenty-five million dollars' worth of hen-fruit marketed in Canada last year, the producers got about fifteen millions, the other ten millions representing the cost of getting this produce to the consumer.

The Poultry Department of Macdonald College sold all its eggs two years ago last winter at a straight price of 50 cents a dozen, a year ago at 60 cents, while last winter they were all taken at 70 cents.

licessed poultry, unlied, was sold last fall and acts winter in Montreal, through the Poultryroducers' Association, at 19 cents a pound for

ORGANIZATION, RULES AND REGULATIONS.

The circles are organized as branches of the Poultry-producers' Association, with which they are loosely affiliated. Their constitutions differ in details from that of the parent organization, though essentially the same. Each circle comprehends a convenient neighborhood, in one case a cheese-factory section. Officers consist of a president, secretary, and a board of three directors. The membership fee is \$1.00 per annum, of which about 15 cents will be laid out directly for stamps. The circles as now organized, are to have one general Superintendent, to be appointed by the buyers, and his decision shall, in regard to

954

the quality of the eggs delivered, be considered fina] Anyone may become a member who is interested in the production of poultry products and will conform to the rules and regulations. Clause 7 we quote in full :

7. Rules and regulations pertaining to eggs: (a) Only eggs gathered from regular nests may be delivered.

(b) Eggs must be delivered at least twice a week, except in winter months, when they must be delivered at least once a week.

(c) Eggs from found nests must not be delivered.

(d) Real small eggs or oversized eggs may not be delivered.

(e) Rough-shelled or ill-shaped eggs may not be delivered.

(f) Stale eggs may not be delivered.

from the flock as soon as the hatching season is over (June 1st).

(h) That all eggs produced by said flock shall be sold through the circle. This applies for one year only

(i) That a member may deliver eggs from only his or her own flock

(j) Notwithstanding anything heretofore set forth, patrons may keep for their own use any eggs required, and must not sell any eggs through the circle that do not comply with these rules and regulations

(k) Eggs as gathered must be kept at an even temperature, as near to 60 degrees as possible, and be kept free from draft and dampness

(1) That any bad eggs in any way delivered and paid for will, upon return of same to promade good to the buyer.

A Central Board is to be organized, consisting of two officers from each circle, provided for in the constitution. Mr. Duff will, in all probabilty, be secretary of this board. Every egg is to be stamped on its larger end with the number of the circle and the number of the member supplying it. If anything is found wrong with a single egg, the superintendent will hire a rig, if necessary, at the buyer's expense, and visit the producer from which it came, find out what was the matter, and return the egg, and receive a refund of its price. idea is to keep everything absolutely straight, and educate the members in the production and marketing of first-class eggs. The collection of the eggs will be arranged by the Central Board, according to the most feasible plan. The one which appears most plausible is to have the eggs brought regularly to certain points, and have wagons call there for them. The wagons will start in some districts probably this week or next. The eggs of coal oil, except in very cold weather, is hardly will not be graded to color or size this year. That will probably come later. The eggs are to be after the brooder during a thunder storm, in order paid for weekly, as soon as they reach the firm, with checks payable at par in Peterborough. gathered, and provision is made for collecting chickens to weigh 2 lbs. in about two months part of a case, as well as full ones. Mr. Brown when reared in a brooder. has been cautious in promises as to price, but expects the firm will be able to do better than his promises. A premium of 2 cents a dozen is expected to be paid from the start over the current Editor "The Farmer's Advocate" market price

that this should be the first district in Peterborough to organize a Poultry Circle.

THE FARMER'S ADVOCATE

W. L. Smith.-One of Prof. Elford's bulletins on poultry has been translated into Russian. Through co-operation, the Danes, inhabiting a the summer time, have become the most uniformly prosperous people in Europe.

Rearing Brooder Chicks.

Editor "The Farmer's Advocate"

1

I believe in brooders for chickens. Allow me to give you some of my experience with them.

I put 48 chicks in a brooder this spring, and as the eggs were mostly infertile, or with weak germs, the chicks could hardly be expected to be of the most vigorous description. However, they have now been in the brooder about four or five weeks, and out of the original number I have lost (g) That all male birds be killed or removed only two, not counting three that were worried by dogs. Of these two, one was a veritable runt, which never grew at all, and the other was 'bandy legged'' when taken out of the incubator. At another time I gave 75 chicks to about five hens, and the other 75 I put in the brooder. lost about 20 per cent, of those with the hens. and only about 5 per cent, of the brooder chickens. I take great care not to overfeed the chicks during the first three or four weeks. They are much like little pigs in their gorging propensities.

Of those I lost that ran with the hens, some were trampled by the mother, and some were killed by hens who objected to a chick of another color straying into their coop. I do not put more than 75 into a brooder that is made to accommodate 100. I keep skim milk in a fountain before them all the time. I feed hard-boiled inducer, be accounted for if possible, and the loss fertile eggs and oatmeal the first two weeks, then quickly substitute a dry mash of corn meal, sifted oatmeal, shorts, bran, or anything else that can be mixed into a balanced ration, giving a fair proportion of protein. A little hard grain is also given every day to keep the gizzards in working order.

I find the brooder saves a great deal of time and trouble. You feed a large number in one coop, instead of the same number in a lot of small flocks. You have not got to feed the brooder. Some hens will try to steal all the chick feed, and others will nearly starve themselves to death.

Then, again, a brooder makes no dirt of its own. It need only be cleaned out once or twice weekly when the chicks are small, if the floor is strewn thickly with dry sand. It will never de sert the little chicks at a time when they still need protection from the cold spring nights. does not care what color the chicks are, and has never been known to trample on them. The cost worth considering. Then you never have to race to keep the chicks out of the rain. Some hens will squat in the middle of a five-acre field when Empty cases will be left off when full ones are a storm is on. I have no difficulty in getting AMATEUR.

them two or three times in the last ten days if the hen is up off the ground. I may say that always try to set my hens on the ground so that there will be a certain amount of moisture from the ground. I have also found that by country where one needs to wear an overcoat in following this plan I have had no trouble with white diarrhea or bowel trouble in the young chicks.

6. As may be inferred from the above, I allow the hens to have the chicks, giving each hen from 15 to 30, according to the time of year. I think that the chicks do better when with the I have found that the chicks that have hen. been hatched under hens or "finished ofi" under hens are healthier than when they come out of the incubator. Of course, I am not condemning incubators for hatching chicks. I am simply stating my own experience with my particular C. H. R. make of incubator.

York Co., Ont.

THE FARM BULLETIN

Improving Country Life.

A movement designed to be of far-reaching benefit was recently launched at Bellefontaine Ohio, the gathering being designated a Country Life Institute. It was attended by leaders in educational, agricultural and religious affairs in Ohio and other States. The two days' discussion focussed upon the relation of the country church and the country community. With entire unanimity it was concurred that the country church should be for the neighborhood in which it stands a "Community Center," identifying itself with and seeking in a sympathetic spirit to promote every interest of the people morally, socially and economically. The principle of unity or federation among the churches for practical service was commended, and their co-operation with the public school, the Farmers' Institute and other agencies advised. A policy of rural church financial reconstruction was approved, in order that churches and ministers enjoy living conditions on a par with the economic standards of the community. The Institute declared in favor of a regenerated rural school, in order to a higher standard of educational facilities by consolidation and scientific training designed to promote the prosperity of the people. Recreation in the interest of moral training and the extension of the "play-ground movement" was endorsed. The ground was taken that these principles and methods are to be so applied as to advance the moral and spiritual interests of the

The Derby Winner.

The 56th annual Derby race, which was run at Epsom Downs, England, on June 1st, was won by Mr. Fairie's three-year-old colt, Lemberg, son of Cylene, ridden by the English jockey Dillon. Lemberg broke all records for the Derby, doing the distance in 2.353. The best previous record was made in 1906 by Major Loder's Spearmint He went the course in 2.36 4-5, the distance being Villier's Greenback, by St. Frusquin, and third A. P. Cunliffe's Charles O'Malley, by Destrond.

FOUNDED 1866

The

of, an try th a tow it beg

engagi relatio a real

passed tories and Te South sorb t goes in supplie

has fo climat sula, a prising the in spread northacres. A silo ter. that ha

Whe

stop to accord tations good d holding howeve partme In

that a ing, an the soi clover, about " lemon County

PICKINGS FROM THE SPEECHES.

H. C. Duff.-The only businesslipe way to pay for any article is to pay for it on its merits.

John 1. Brown .- We want to make money out of you people, by making money for you. There are plenty of people in the cities who want to buy choice iresh-laid eggs. We want to sell them, and we haven't got enough of them to sell. There are not enough eggs in Peterborough to supply one of our customers, the Allan Line

T. D. Young.-Our cheese factory pays for milk by the per cent. of fat plus two, and the quality has greatly improved since we adopted the system. There is more injustice in Luying good and bad eggs for the same price than in pooling proceeds from milk. For the last few years farmers have made no money more easily than what has been made out of the eggs.

Prof. F. C. Elford .- No farmer with one hun dred acres should be without 100 hens. If properly looked after, they will pay the interest on the farm, say, \$300 a year. The poultry crop, rightly handled, is pretty nearly independent of the weather.

ness methods to our work, and market an abso-lutely dependable product. If you go into this

"Finishes Off" with Hens.

In reply to your request for incubator users to give their experiences, I give here answers to the questions you ask.

1. I have run an incubator for two seasons, and have certainly had a good two years' experience

2. The advantages of the incubator over the hen are many. Some of the main ones are : larger number of eggs can be set at one time thus giving you a flock of chicks of a uniform size, that can all be marketed at the same time. The incubator can be started at any time." With hens you have to wait until they take a notion to sit. It is less work to take care of the same number of eggs in an incubator than if they were It is cheaper to run an incubator under hens. than it is to allow the hens to stop laying and Of course, you will have to feed the hens whether they are sitting or not, but the loss of eggs and cost of feed will amount to more than the cost of oil for the incubator.

3. Three gallons of oil, at 20c, per gallon, will easily run my 150-egg hot-water incubator for three weeks. Five minutes night and morningten minutes per day in all-will easily cover time required to attend to it. Put it at four hours for the three woeks, at 15c, per hour, making 60 cents. This, with the oil and 5 cents for a lampwick, makes \$1.25 for running a 150-egg machine

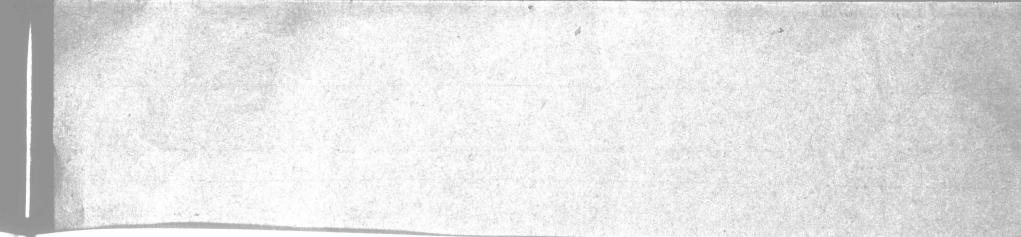
the 10th day, and then put them out under hens of incubators been able to get a good hatch where the eggs were left in the machine for the 19 57 No section was more enthusiastic dead in the shell. This is overcome to a large of the work and it is not surprising extent by giving it so to be to b

Act, wholesale dealers in seeds have become much more particular as to the class of seeds they buy, and are making a greater difference in price between ordinary and first-class seed than ever before. Owing to the keen discrimination by such dealers against buckhorn in clover seed, many farmers who had seed to sell the past season have learned what buckhorn seed is like, and will he able to detect it in future. A further move on the part of the Seed Branch towards the production of clean seed is now being made. T. G. Raynor. Ontario representative of the Branch, is at present securing a man from each of the seedproducing counties in Ontario west of Kingstonabout twenty-five in all-who shall spend three weeks in a tour among the farmers of his county His duties will be to visit seed-growers, and in a friendly way to point out the advantage to themselves of producing only clean seed, and make suggestions and give instructions as to how this can hest be done. The campaign is to be entirely educational. Attention will be drawn to the presence of any novious weeds in the crop intendspected that by these means the purity and value

The manufacturers of two of durinks in the Unites States have

It i of app] ings, 1 Johnso and see

canker the kn the gro other t awaitir snowst



ith

ng

he

0

The Farming Faith of Norfolk.

To appreciate afresh the powerful influence of demonstrated ideas, one cannot do better than take a jaunt over the country roads and some of the railway lines that net the County of Norfolk, Ont. Simcoe town is a county seat to be proud of, and it is backed by a go-ahead farming country that has faith in itself. For a neighborhood, a township, or a county, it is a fine thing when it begins to realize the possession of certain resources, to be made more of by judicious labor and enthusiasm. Such inspiration makes opportunity. Incidentally, it lifts communities out of the narrowing effect of small talk and gossip by engaging their attention with larger interests and the cultivation of those co-operative and friendly relations that make life worth living, and farming a real success.

Though a county of but moderate size, Norfolk makes a good showing in such staples as winter wheat, oats, corn, which in husked product has passed the million-bushel line, with larger possibilities ahead; in horses, for which it is justly iamed; and in canning crops for the great factories at Simcoe, Delhi and Waterford. Hamilton and Toronto draw upon Norfolk farms for cream ; South Middleton and Tillsonburg condensaries absorb the product of the cows, in addition to what goes into cheese and butter making, and local town supplies.

But it is in apple-orcharding that the county has found itself particularly famous, and with a climate approximating the adjacent Niagara peninsula, and tempered by Lake Erie, it is not surprising to find peach, plum and pear culture on the increase, with magnificent strawberry patches spreading out, one on the J. E. Johnson farm, just north-east of Simcoe town, covering some 20 acres. This farm is devoted to peaches, pears, plums, fancy apples, as well as small fruits, together with corn and some field crops for feeding. A silo is used, and a bunch of cattle fed in winter. In his Kieffer pear plantation, he is trying the plan of spreading out with common applebarrel hoops and cord the limbs of young trees that have a tendency to head too close together.

When readers of "The Farmer's Advocate' stop to think that 300 or 400 farmers in a given district have taken up apple-growing in earnest, according to modern methods, it means something. Old orchards are being regenerated, and new plantations established, some of them 50 acres in area. possibly on lands, in some cases, that will need a good deal of feeding. In the main, the people are holding to the winter varieties. On this point, however, their ideas do not quite run parallel with those of the head of the Fruit Division, in the Department of Agriculture, at Ottawa. Time will

In Norfolk we have the idea again exemplified that a crop of apples will not come out of nothing, any more than a crop of corn or wheat. So the soil is tilled and fertilized with manure and clover, etc.; the trees are pruned and sprayed on about the same plan as " The Farmer's Advocate" emonstration orchard at Lambeth, in Middlesex

THE FARMER'S ADVOCATE.

season about \$5,000 over all expenses. Orchard ing is going ahead as with "seven-league boots. We have Jas. Johnson here, and the Norfolk Co operative Fruit-growers' Association," remarked an alert local journalist, " and things are going

In many ways the Local Representative of the Provincial Department of Agriculture, and teacher of the High-school Agricultural Class, P. Angle, B. S. A., and his assistant, Wade Toole a third-year O. A. C. man, have faithfully, and with discretion, put themselves at the service of the county farm interests. Mr. Angle came in June of last year, and Mr. Toole in April, 1910, succeeding A. G. Turney, B. S. A., who was called to New Brunswick, after being only a few months in this office. "So many apparently promising lines of work press us for attention that it is difficult sometimes to discriminate in favor of what will prove in the end most useful," observed Mr. Angle

This spring Mr. Toole spent several weeks going from orchard to orchard, giving assistance with spraying outfits, which, to beginners, give trouble sometimes with the preparation of limesulphur, Bordeaux mixture, and other mixtures, and explaining the exact nature of the particular pests for which the treatment is intended. Specific information re the production of dairy herds and poultry flocks is being collected, with a view to increasing the production of these two important classes of farm stock.

The sandy-loam soils of Norfolk make a natural home for poultry, which fits in admirably with fruit-growing, and, by improving the farm poultryyard and marketing methods, there is assuredly a large future for the industry.

Some useful drainage-survey work has been done, cow-testing encouraged, samples of milk tested for dairymen and others, and quantities of corn and potatoes distributed, with typewritten directions, for trial plots, with the object of establishing improved varieties of seed and systematic seed selection. Young men are naturally becoming interested in this work, as they were, along with the agricultural public generally, in the three-days' stock-judging course in February, attended by from 100 to 250 per session, under the auspices of the Simcoe Farmers' Institute Club, the Agricultural Society, and the North and It proved South Norfolk Farmers' Institutes. one of the most instructive events ever held in the county.

Simcoe has one of the model autumn county exhibitions of Canada, and Mr. Angle has this year been elected superintendent. He has grass, clover and some other special plots growing on the grounds. He started an agricultural class of five in the High School last September, a couple of whom contemplate going to the O. A. C. at Guelph subsequently. It has been fairly well sustained, and additions are expected next term. In addition to this, a six-weeks' course in agriculture, covering a study of seeds, farm chemistry and bac teriology, soil fertility, cultivation and dra nage, farm botany and entomology, and stock-judging, was conducted in January and February last, and

South Perth Notes.

955

The early spring is not so early, after all. Growth is little, if any, ahead of an average year, and, what is worse, the cool comparatively dry weather has enabled the wire and cutworms to overtake the growth, so that spring crops and grass on high, light land are, in many places, badly thinned out. Wheat has also suffered. So great has been the damage that some are plowing up and resowing ; others are broadcasting millet and harrowing, hoping thereby to get a mixed crop. However, these practices are by no means general, and the advent of settled warm weather would yet bring a fair crop. Low, rich land nas generally escaped injury, and perhaps high, rich land would, also, but all the high spots are poor in this locality, having been cropped more, because drier, and also because of fertility washing to lower levels. First and second crops on old pastures, of course, are the worst. It looks as though we will have to break up sod at least every second year, or cease destroying the robins and blackbirds. It would pay every farmer to have a good-sized orchard, with a thick windbreak of evergreens on two or three sides, to encourage the birds to nest. The cherries can be protected, but if they did run away with a bushel or so, it would be only small pay for their services. The larger birds, such as crows, hawks and owls, can easily be dispensed with. Field mice never become real pests, and any dog will clean them out in harvest time, so that we need not preserve our wood-lots for this purpose; besides, these birds of prey scare away the smaller and more beneficial ones. Blackbirds and robins are great for getting outside of cutworms when the plow is going. I happen to be living where there are many trees growing near the house-soft maple, evergreen, apple, etc., and it is very interesting to watch the antics of the various kinds of birds which are mesting. A pair of orioles wove their nest to a swaying limb in full view from the veranda; a pair of bluebirds chased an inquisitive red squirrel from their nest in a post of the fence. Robins, swallows, kingbirds, blackbirds, woodpeckers, graybirds, canaries, hummingbirds, and some others which I can't name, are frequent visitors, and probably have nests near-If for no other reason, I would want trees near the house, instead of half a mile away, where our wood-lots are now standing.

It was Near-by is a small patch of alfalfa. sowed on level, but well-drained, fairly-rich clay loam a year ago, on barley, following roots. It keeps well ahead of the red clover and timothy beside it, and is a real good stand. Twenty pounds to the acre, and three bushels of barley. were sown. The way the hens go for it is a revelation, at least to the writer. It makes eggs, too, although they are fed grain, also. Unlike larger stock, they don't wander all over the field, destroying as much as they eat, but keep it Whether they cleaned off close, as they require.

County

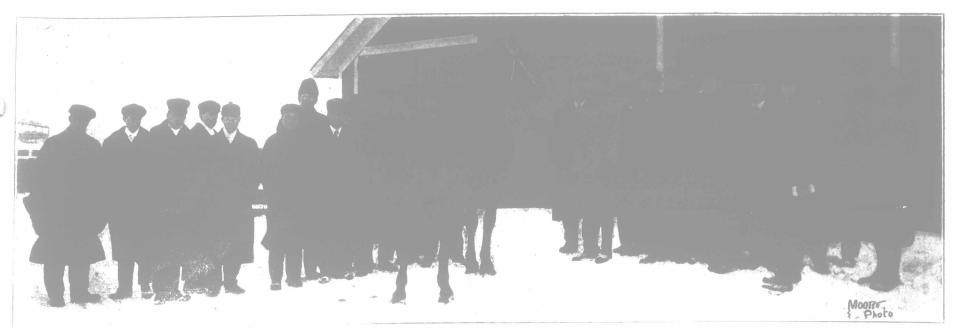
It is a revelation to go into a 40-acre block of apple trees, mostly Spies,, Baldwins and Greenings, like the orchard recently acquired by Mr. Johnson, a couple of miles south-west of Simcoe, and see not a stray sucker nor useless limb nor canker spot that had not been scraped out with the knife and treated with corrosive sublimate ; the ground, under the extension disk harrow and other tools, as clean and mellow as a garden, and the trees themselves a perfect paradise of bloom. flowers, Norfolk County is notable as the home of awaiting the third spraying, when, like a spring snowstorm, the blossoms had fallen. It will be a improvement at his place near Simcoe has given wonder if such a proposition does not turn in this him world-wide fame.

was taken by 25 young men.

While not exactly a branch of Southern Ontario agriculture, the Provincial forestry plantation in Walsingham Township is destined to be a far-reaching benefit, by recovering with pine and other forest trees the "blow-sand" area in this corner of Norfolk, and in supplying seedlings for schools and waste places all over Ontario. This work is directed from the Agricultural College, at To the horticulturist interested in Guelph. H. H. Groff, whose marvellous work in gladioli

seriously injure its growth, remains to be seen, but it is surely a cheap way of feeding hens.

Wheat is doing fairly well now, but spring grains and pastures are backward. New seedings are poor, averaging, maybe, forty per cent. of a good crop. Prospects for fruit-setting are rather poor, because of cold, wet weather, which hinders the bees and other insects from fertilizing them. Sheltered orchards, and those having hives of bees in them should do best, other conditions being equal. It is hard on the bees, too. They are building up but slowly, getting scarcely enough nectar to keep them going. J. H. BURNS. Perth Co., Ont.



Norfolk County. Ont., I. dging Class, with A. E. Yeager's "Sensation" Under Review

THE FARMER'S ADVOCATE.

Fruit Prospects in Canada.

The prospects for fruit are good, according to the first report of the Fruit Division, issued May 31st. Some damage from frosts in the early part of May was done to early-blooming varieties of fruit in some sections, but, on the whole, fruit seems to have "set" well.

On nearly all varieties of apples there has been an abundant blossom everywhere. The prospects from all districts are for a good to large crop.

In all districts, pears blossomed heavily, though damage from frosts is reported from Nova Scotia, the Essex peninsula, and the inland counties of Ontario.

Plums, peaches and cherries all bloomed profusely, and promise well, though late frost has caused damage in some districts, especially to plums.

Small fruits will be good on the whole, though in several districts the first bloom of strawberries was killed by frost.

Aphids are not so prevalent as last year, but some of the other insect pests are more numerous

In the Middle West States there will be a light apple crop, but in the Pacific States, and those in the East, prospect are good.

Westerners Buying Foundation Stock.

A shipment of 52 head of pure-bred live stock started for the West from Ontario last week under the auspices of the Live-stock Associations. comprises 11 head of Ayrshires, 11 Jerseys, 1 Holstein, and 3 Shorthorns; 1 Percheron, Standard-bred, 2 Shires, 9 Clydesdales; 6 Berkshires, 1 Yorkshire, 3 Southdowns, and 3 Shrop-Of these, 20 head went to Manitoba, 11 shires. to Saskatchewan, 8 to Alberta, and 13 to British Columbia. The stock was forwarded in two long palace cars and three short ones. Mr. Elderkin, of the Live-stock Branch, at Toronto, informs us that more stock has been sent out by the Associations this spring than for two or three years past. A singular fact is the unusually large proportion of females, apparently indicating that breeders in the West are desiring foundation stock for pure-bred herds, studs and flocks. Out of 26 cattle, only 7 were bulls, while 5 out of 13 equines were stallions, and so on.

A Great Jersey Sale.

At the annual sale on May 30th of imported and home-bred Jersey cattle, the property of T. S. Cooper & Sons, of Coopersburg, Pennsylvania, 131 head were sold for an average of \$693. The highest price of the day was \$11,000, for the three-year-old American-bred bull, Sultana's Oxford Lad, sold to Mrs. Henning, owner of Allandale Farm, Shelbyville, Ky. The twelve-year-old cow, Golden Sultana, sold for \$3,700 to M. E. Beltzhoover, Arlington-on-Hudson, N.Y. The 12year-old cow, Golden Fern's Sensation, went to Gedney Farm, Marlboro, Mass., for \$1,550, and heifer calves from the two cows last named and \$1 125 brought \$1. to have been tolerable

Prof. J. A. McLean Joins "The Farmer's Advocate" Staff.

The steady growth of "The Farmer's Advocate," entailing an annually increasing burden of correspondence, especially of questions to be answered through the paper, has rendered necessary a reinforcement of the editorial staff, permitting more specialization than has hitherto been possible, to the end that a wide and active outlook may be maintained over the whole field of agriculture and stock husbandry. The publishers of The Farmer's Advocate" are pleased to curnounce that they have secured the services of J. A. McLean, B. A., B. S. A., who first saw the light of day on his father's 350-acre farm at Ormond, Dundas Co., Ont., where he afterwards put in many an honest day's work. Holstein cattle and a few Clydesdale horses were the features of the stock department on this farm. In 1902, Mr. McLean graduated from McMaster University, Toronto, in the same class as his room-mate, Prof. H. S. Arkell. Afterwards, he filled the position of Resident Master at the Ontario Agricultural College, and then went to the Iowa Agricultural College at Ames, graduating in 1905 with the B. S. A. degree. As a student, he was a strong man, representing the Iowa College in the students' judging contest in 1904, when the horse trophy was won by it for the first time. graduation, he has spent one year in Colorado, as head of the Animal Husbandry work ; two years at Ames as Associate Professor of Animal Husbandry, and two years in charge of the Animal Husbandry Department at the Mississippi Experiment Station, which he left May 31st to come to London. He has had some experience as a contributor and departmental editor of various publications, and is well and favorably known among the live-stock fraternity of America.

Twenty-six More B. S. A.'s.

The following O. A. C. candidates have completed the examination for the degree of Bachelor of Agriculture : W. L. Bengough, W. Bowman, J. F. Carpenter, R. H. Clancy, G. W. Collins, R. B. Cooley, W. E. J. Edwards, F. E. Ellis, R. Fraser, J. F. Harries, S. Kennedy, C. M. Learmonth, J. C. Lloyd-Jones, D. E. McRae, P. H. Moore, R. L. Moorehouse (aeg.), S. J. Neville, F. C. Nunnick, W. R. Reek, E. Robinson, A. M. Shaw, A. S. Smith, A. Snyder, S. E. Todd, J. D. Tothill, O. White.

The following candidates must pass supplemental examinations in the subjects indicated : Cunningham (French or German), H. L. Knauss (English), J. Laughland (English, chemistry of insecticides and fungicides).

During the month of April, immigration into Canada was at the record rate of 1,600 per day, of whom almost 700 came from the United States. The total for the month was 48,267, an increase of 99 per cent. over April of 1909. Though the for May are not available, it is ers somewhat dampened the ardor of bidders, and they will exceed those of April. For the first interfered to some extent with the success of the quarter of 1910 the total immigration has been sale, which to most readers will doubtless appear 98,132, as compared with 49,568 for the first quarter of 1909.

The principles so effectively illustrated by those Hungarian pot experiments with legume-inoculating material and fertilizers (for account of which see "The Farmer's Advocate" of June 2nd), are of vast importance. Best results were obtained from inoculating with cultures of the nitrogengathering bacteria, and fertilizing with potash and phosphorus. The bacteria supplied the nitrogen requisite to make a complete plant ration. When it is understood that potash and phosphoric acid may be purchased for four to six cents a pound, while nitrogen, in the form of commercial fertilizers, costs about eighteen cents, the economy of the above means of soil improvement is at once apparent. Of course, these pot experiments, being conducted with a poor, sterilized quartz sand, showed a much-exaggerated benefit both from the inoculation and from the fertilizing, but the principle is of quite general application. Fertilizing, where necessary, with the two mineral elements of plant food, and supplying nitrogen and humus by the growth of legumes (inoculated, if necessary). is sound economic practice in orcharding and field agriculture, and worthy of more general adoption.

FOUNDED 1866

The "lure of the West" has been felt in Prince Edward Island, as well as in other Provinces of the East. On many fine farms no one but the old folks are left, the sons having gone to the Prairie Provinces, or further West, or to the cities of the United States and Canada. However, an immigration agent, in the person of Rev. J. W. Winfield, was appointed last year, and he has been conducting an active immigration campaign in England, with a view of repopulating the Island. He landed lately with a part of forty-nine men, women and children, settlers of a most desirable type. Fifteen of the men hired out with farmers on their arrival; the others are negotiating for the purchase of farms.

The officially supervised yearly testing of purebred dairy cows, in connection with the various Records of Performance, is progressing steadily. Already there is a notable demand for stock bulls from proved producing strains, says Dan Drummond, of the Live-stock Branch, Ottawa, who has charge of the inspection work. But far more important than the resultant effect in the improvement of stock, he adds, is the effect on the men. The man is the greatest factor in dairying, and the only factor in citizenship. The inspiration, knowledge, study and intelligence fostered by this testing work must and does develop a race of educated dairymen and dairy-stock breeders. That gain is invaluable.

There was no problem in preventive medicine of greater significance than that of removing the dangers which exist in the ordinary market milk, said Dr. J. C. O. Hastings, in introducing the report of the Ontario Milk Commission to the meetthe Canadian Medical Association in

Ao

dra

tha

wil

4

bec

the

At 6th, r cars, 69 sh good, 15 ce tle. \$5.50 \$6.90 um, \$ COWS, calves \$5; re lambs fed an f. o. t REVI The

City a

Cars Catt Hogs Sheep Calv



Sultana's Oxford Lad 76506, A. J. C. C. Jes cy holl, sold for \$11,000 at T. S. Cooper & Son's sale, at Coopersburg, Fa., June 30th, 1910.

Through the increase of pasteurization methods, almost half of the total milk supply of Toronto could now be guaranteed free from disease-producing germs. Interest in this work was increasing, and it is hoped that in a short time, through the efforts of the Commission. in co-operation with Dominion, Provincial and municipal governing bodies, Canada would have

Of the 137 animal brains examined in the laboratory of the Provincial Board of Health, said Dr. J. A. Amyot, in an address last week, some 65 or 70 have proven positive cases of rables. Sixty-one patients have been given the Pasteur vackind have been noticed in any of them. The

were sent in to be tested in the Seed Laboratory, at Ottawa, as in the same month of last year. Fifty-five per cent, of the 924 samples examined were sent in by seed merchants. Only 40 per cent. of the samples of red clover seed were sufficiently clean to be classed as No. 1, 10 per cent.

strong in Canada this season. Retailers report that their stock of that seed was sold out early. and that they were unable to secure further sup-

We are asked to announce a change in the date of the excusion from Lincoln County to the ${\rm On}$ tario Arricultural College, from June 11th to June 15th.

City a ing we

Hogs

It wi t l e = w eof the ers we

the we \$7.50,

\$5.90 from \$

11-

en

.11

()

Bank of Toronto

A MONEY MAGNET

One advantage to you of a Savings Account at The Bank of Toronto is that it draws to itself many odd sums of money that can easily be spared, and your balance will therefore be a growing one.

Another advantage is that these sums become money-producers for you through the interest earned.

And your money in this Bank will be safe.

Incorporated 1855

MARKETS.

Toponto. LIVE STOCK

At West Toronto, on Monday, June 6th, receipts of live stock numbered 117 cars, comprising 2,596 attle, 107 hogs, 69 sheep, 162 calves. The quality was good, and trade active, at 10 cents to 15 cents per cwt. higher prices for cattle. Exporters, \$6.75 to \$7.75; bulls, \$5.50 to \$6.50; prime picked butchers', \$6.90 to \$7; good, \$6.50 to \$6.75; medium, \$6 to \$6.40; common, \$5.50 to \$6; cows, \$4 to \$6.25; milkers, \$40 to \$65; calves, \$3 to \$6.25. Sheep-\$4.50 to \$5; rams, \$4 to \$4.50 per cwt.; spring lambs, \$3 to \$6.50 each. Hogs-Selects, fed and watered, \$9.50, and \$9 to \$9.10, f. o. b. cars at country points.

REVIEW OF LAST WEEK'S MARKET.

The total receipts of live stock at the City and Union yards last week were :

| | City. | Union. | Total. |
|--------|-------|--------|--------|
| ('ars | 242 | 152 | 394 |
| Cattle | | 2,758 | 5,606 |
| Hogs | 8,084 | 1,531 | 9,615 |
| Sheep | | 135 | 1,190 |
| Calves | | 186 | 985 |
| Horses | | 88 | 89 |
| | | | |

The total receipts of live stock at the

THE FARMER'S ADVOCATE.

porters, were taken back to the country as short-keep feeders, at \$6.50 to \$6.75, their weights being 1,055 to 1,156 lbs. each.

Milkers and Springers. There was a good demand all week for milkers and springers of quality, at firm prices, ranging from \$40 to \$70 each. The principal demand was from Montreal and Quebec Cities.

Veal Calves.—Receipts of veal calves have been fairly large, with prices steady to firm, at \$3 to \$6.50 per cwt., or an average of \$5.75 per cwt. all round.

Sheep and Lambs.—Ewes sold at \$4.50 to \$5.25 per cwt.; rams, \$4 to \$4.50; spring lambs, \$3.50 to \$6.50 each. Hogs.—The tendency of hog prices since

the beginning of the week has been downwards, and at the close, selects, fed and watered at the market, sold at \$9.65, and \$9.30, f. o. b. cars at country points.

Horses.—The trade in horses at all the different sale stables is still very quiet, with receipts light. J. H. Smith, manager at the Union Horse Exchange, reports having shipped two carloads to the Northwest, and two cars to British Columbia, as well as several cars to Northern Ontario. Prices ranged as follows: Drafters, \$200 to \$230; generalpurpose horses, \$175 to \$210; expressers, \$150 to \$230; drivers, \$100 to \$225; serviceably sound, \$35 to \$80.

BREADSTUFFS.

Wheat .- No. 2 white or mixed winter, 90c. to 95c., outside. Manitoba-No. 1 northern, 92c.; No. 2 northern, 90c., track, lake ports. Rye-No. 2, 67c. to 68c. Peas-No. 2, 70c. to 71c., outside. Buckwheat-No. 2, 51c. to 511c., outside. Barley-No. 2, 52c. to 53c.; No. 3X, 51c.; No. 3, 47c., outside. Oats-Ontario, No. 2, 33c., at points of shipment. Corn-No. 2 yellow, 65c.; No 3 yellow 64c.; Canadian corn, 60c. to 61c., Toronto freights. Flour-Ontario 90 per cent. winter wheat patents for export, \$3.60 to \$3.65, in buyers' bags, outside. Manitoba flour prices at Toronto are: First patents, \$5.30; second patents, \$4.80; strong bakers', \$4.70.

HAY AND MILLFEED.

Hay.—Baled, in car lots, No. 1, \$15; No. 2, \$14, on track, Toronto. Straw.—Baled, in car lots, track, To-

ronto, \$7.50 to \$8. <u>Bran.—Ontario bran,</u> \$20, in bags. Sflorts, 50c. more, track, Toronto.

HIDES AND WOOL.

E. T. Carter & Co., 85 East Front street, have been paying the following prices: No. 1 inspected steers and cows, 11½c.; No. 2 inspected steers and cows. 10½c.; No. 3 inspected steers, cows and **Montreal.** Live Stock.—During the month of May the export of cattle from the port of Montreal amounted to 6,962 head, as against 14,173 head for May, 1909, being a decrease of over 50 per cent. Ocean freight rates hold about steady,

being 20s. per space to Liverpool and

London, 25s. to Glasgow, and 17s. 6d. to Manchester. In the local market quite a number of bulls were offered, and the range of prices for several choice lots was from 6c. to 61c. per lb. Others sold down to around 54c. per lb. Choice steers sold as high as 74c. to 74c. per 1b.; fine brought about 7c. per 1b., good 64c. to 64c. medium 5%c. to 6c., and common down to about 4%c. per lb. Supplies of sheep light; prices 6c. per lb. for yearlings, and 5c. to 51c. for old sheep; spring lambs, \$3 to \$6 each. Calves scarce and firm, at \$3 to \$5 each for poor, and \$6 to \$10 for best. The market for hogs was high, selected lots sold at $10\frac{1}{4}c$, to $10\frac{1}{3}c$, per lb., weighed off cars. Horses.-Manitoba buyers still in the market and prepared to pay high prices. A fair demand also from farmers and carters for the quality they respectively require. A small shipment has been sent to Vancouver, the quality being good, heavy animals. Prices as follows: Heavy draft horses, weighing from 1,500 to 1,700 lbs., \$250 to \$300 each; light draft, 1,400 to 1,500 lbs., \$200 to \$250 each; light horses, weighing from 1,000 to 1,100 lbs., \$100 to \$175 each; inferior, broken-down animals, \$50 to \$100 each, and choice saddle and carriage horses, \$350 to \$500 each.

Dressed Hogs and Provisions.—Dressed hogs sold at 144c. to 144c. per lb., for choicest fresh-killed, abattoir-dressed. Demand for hams and bacon active, and market strong. Prices steady, at 194c. per lb. for English, boneless, selected bacon, and 19c. for thick. Hams steady, at 16c. to 20c. Barrelled pork sold at \$27 to \$33 per barrel, and beef at \$18 per barrel. Lard compound brought 124c. to 14c. per lb., and pure brought 16%c. to 174c. per lb.

Potatoes.—The market for potatoes was on the firm side, owing possibly to the opening up of an export demand from Cuba. There was practically no change, however, merchants still reporting carloads changing hands at 40c. per 90 lbs., track, Montreal, and smaller lots bringing fully 10c. more.

Eggs.-Straight-gathered eggs were said to be available in the country at 171c. to 18c. per dozen, and here at 19c. or 191c. to 20c. per dozen. Selected stock all depends upon how closely the selection is made, but prices may be ranged from to 24c. per dozen. Butter.-Prices on country boards showed very little alterition as compared with the previous week. Some merchants claimed they could get 24c., whole sale, here, for choicest makes; the figure mentioned would seem to be about right, ranging down to $23\frac{1}{2}c$. for fine quality Undergrades are 23c. Monday's quotations, however, were down to 23c. to 234c.

are 10c. per lb., all round, and Nos. 3, 2 and 1 hides are 11c., 12c. and 13c. per lb., respectively. Calf skins, 14c. and 16c., respectively, for Nos. 2 and 1. Horse hides, \$1.75 and \$2.50 each, for Nos. 2 and 1, respectively. Rough tallow, 1 $\frac{1}{2}$ c. to 5c. per lb., and rendered, 5c. to 6c. per lb.

Cheese Markets.

Madoc., Ont., 10 11-16c. Woodstock, Ont., 10gc. bid. Peterboro, Ont., 10 9-16c. and 10%. Alexandria, Ont., 10%c. Belleville, Ont., 10%c. , 10 13-16c. and 10%c. Brockville, Ont., 10 9-16c. bid. Kingston, Ont., 10%c. and 10%c. Tweed, Ont., 10 9-16c. bid. Winchester, Ont., 103c. Ottawa, Ont., 10 9-16c. Perth, Ont., 101c. Picton, Ont., 10 9-16c. Napanee, Ont., 10%c. Iroquois, Ont., 104c. Cowansville, Que., 10%c.; butter, 22%c. and 22%c. St. Hyacinthe, Que., 101c.; butter, 224c. Chicago, Ill., daisies, 14%c. to 15c.; twins, 14%c. to 14ªc.; young Americans, 15¹/₄c. to 16c.; longhorns, 14%c. to 15c.; butter, creameries, 25c. to 27 tc.; dairies, 23c. to 26c. London, Ont., 10%c.

Chicago.

Cattle.—Steers, \$6.25 to \$8.60; cows, \$4.50 to \$6.50; heifers, \$4.25 to \$6.25; bulls, \$4.50 to \$4.90; calves, \$8 to \$7.50; stockers and feeders, \$4.75 to \$6.50.

Hogs.—Heavy, \$9.30 to \$9.35; butchers', \$9.35 to \$9.40; light mixed, \$9.30 to \$9.35; choice light, \$9.35 to \$9.40; packing, \$9.25 to \$9.80; pigs, \$9 to \$9.20; bulk of sales, \$9.30 to \$9.85.

Sheep and Lambs.—Sheep, \$4.25 to \$5.40; yearlings, \$6 to \$6.75; lambs, \$7 to \$8.45; spring lambs, \$9.50 to \$9.10.

Buffalo.

Cattle.—Prime steers, \$8 to \$8.25. Veals.—\$3 to \$9.50.

Hogs.—Heavy and mixed, \$9.65 to \$9.70; Yorkers, \$9.70 to \$9.80; pigs, \$9.75 to \$9.80; roughs, \$8.50 to \$8.75; stags, \$7.25 to \$8; dairies, \$9.50 to \$9.80.

Sheep and Lambs.—Lambs, \$7 to \$8.50; a few, \$8.60.

British Cattle Markets.

London and Liverpool cables quote live cattle (American) steady, at 14%c. to 15%c., dressed weight; refrigerator beef, steady, at 11c. to 11%c. per pound.

957

City and Union yards for the corresponding week of 1909 were :

 City.
 Union.
 Total.

 Cars
 202
 135
 337

 Cattle
 2,859
 2,464
 5,323

 Hogs
 3,371
 1,270
 4,641

 Sheep
 731
 78
 809

 Calves
 940
 201
 1,141

 Horses
 5
 127
 132

The above figures show a total increase in the combined receipts of live stock at both yards over last year of 58 carloads, 283 cattle, 1,974 hogs, 381 sheep; but a decrease of 156 calves and 13 horses.

It will be seen that the receipts of catthe were again large, but more could have been sold. At the Urion yards on Monday, when 107 carloads were on sale, about 70 loads were of the export class. The quality was good; trade was active all offerings being sold before the close of the day. Prices for the best exporters were 10c. to 15c. For ewt. higher, and medium cattle about steady, at the previous week's quotations. Butchers' cattle were firm, but no ligher. These conditions ruled at both n creats dorme

the week. Exporters.—Prices maged from S0.50 in \$7.50, but only two loads brought the atter price. Export be firs sold at \$6.65 to \$7. Export buils, at \$5.50 to \$6.35.

Butchers'.- Prime packed in old a^{α} \$6.85; loads of good, Si for 10^{-} \$6.75 medium, \$6 to \$6.10, we can show to \$5.90.

Stockers and Fooded States and from \$4 to \$4.75; footest as 25 to \$6 Some unfinished critic bulls, 9½c.; country hides, 9c. to 10c.; calf skins, 13c. to 15c.; horse hides, No. 1, \$2.75 to \$3; horse hair, per lb., 30c.; tallow, per lb., 5½c. to 6½c.; sheep skins, \$1 to \$1.25 each; wool, unwashed, 13c.; wool, washed, 20c.; wool, rejections, 15c.

COUNTRY PRODUCE.

Butter.—Receipts heavy. Market weak, and prices still lower. Creamery pound rolls, 23c. to 24c.; separator dairy, 21c. to 22c.; creamery solids, 22c.; store lots,

18c. to 19c. Eggs.-Receipts liberal: paices easy, at 20c. to 21c.

Cheese.—New cheese is plentiful, at 12c. for large, and 124c. for twins. Old cheese sells at one cent per pound more Beaus.—Market quiet. Trade steady, but little doing. Prices are the same, \$2 to \$2.10 for primes, and \$2.15 to \$2.20 for hand-picked.

are a shude higher. Ontarios, 28c. to 30c. per bag, for car lots, on track, Toronto, and New Brunswick Delawares, 45c. to 48c. per bag, track, Toronto. Honey.--Market easy. Extracted, nominal, at logic; combs, lower, at >2 to \$2.50 per dozen sections.

Poultry, Beceipts contribute to be light although spring chickens, "having," an more plentifiel, with prices easier. Turkeys, 17c, to 20°, per ile, dressed; fowl, 15c, to 17c, spring chickens, 35c, to but out 0.

LOVELS AND AFGETABLES.

Onions, per lack, \$2.50 to \$2.75, rabbage, new, \$1.65 to \$2 per crate; strawberts. The to 16c per quart, by the case containes, say backets in case, \$2.50to \$3.50, relatives new, per barrel, \$6 Cheese.—The market has shown a slight decline throughout the country boards. Dealers quoting 11c. for Ontarios, 10‡c. for Townships, and 10‡c. for Quebecs. Export demand light.

Grain.—For the most part, the wheat markets have been weak of late. Oats selling around the following prices: Canadian Western No. 2, 35c. to 35jc.; No. 3, a cent less; No. 2 Ontario white, 31c.; No. 3, one cent less, and No. 4 yet a cent less. No. 3 barley, 56jc.,

and No. 4, 55c.; feed barley, 54c. Flour:-During last week the market for flour declined 20c. per Larrel, making Manitoba first patents \$5,40, and seconds \$4.90, and strong bakers' \$4.70. Ontario patents, \$5.25 to \$5.35, and straight rollers, \$4.80 to \$5 per barrel.

Feed.- Market for bran showing weakness, and Manitobas may now be had at 818 per ton, in bars, shorts being \$21, Ontario bran, \$19 to \$19,50; middlings, \$22; pure grain mouille, \$32,50 to \$33, and mixed mouille, \$25 to \$28. Cottonseed meal, \$35 to \$40.

Hay.—Market steady, at \$15 to \$15.50 track, Montreal, for No. 1 hay; \$14 to \$14.50 for No. 2 extra, \$12.50 to \$13 for No. 2; \$11.50 to \$12 for clover mixed, and \$10.50 to \$11.50 for clover. Hides —Market steady, lamb skins being up to 200, each = Conspected hides

TRADE TOPIC.

The attention of persons desirous of securing a good farm near Toronto, is called to the advertisement in this issue by Messrs. Philp & Beaton, agents for the sale of the fine 225-acro farm owned by John Isaac, the well-known breeder of Shorthorn cattle, situated 1‡ miles from Markham village, G. T. A. This is a strictly first-class farm, and has been kept in good heart by the feeding of cattle and other stock for twenty years or more. The buildings are also first-class, and the location is a very desirable one.

GOSSIP.

The average price for the 46 head of Shorthorn cattle in the action sale on May 25th, from the herd of J. B. Haggin, at Elmendorf Farm, Lexington, Ky., was \$338, the white bull, Lord Albin, topping the sale at \$1,000.

THE THOUGHTS OF YOUTH.

A small boy was hoeing corn in a sterile field by the roadside, when a passerby stepped and said:

""Pears to me your corn is rather small."

"Certainly," said the hoy. "it's dwarf corn."

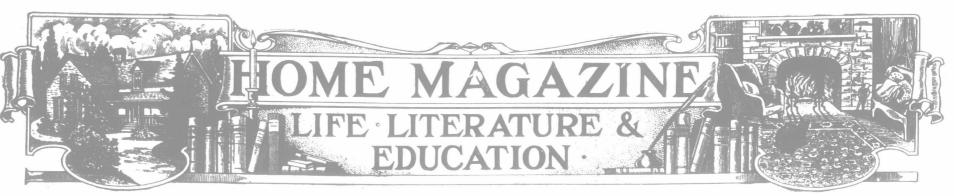
"But it looks yaller."

"Certainly, we planted the yaller kind." "But it looks as if you wouldn't get more than half a crop."

"Of course not, we planted it on halves."

THE FARMER'S ADVOCATE

FOUNDED 1866



Men of To-day.



Hon. Mackenzie King. The Minister of Labor.

Hon. Mackenzie King, the Canadian Minister of Labor, was one of the speakers at the sixteenth annual Lake Mohouk Conference on International Arbitration, held a short time ago, and received great applause when he suggested that the centenary of peace between Canada and the United States, that takes place in 1914, should be celebrated by the erection of a great bridge or monument at The Rush-Bagot Niagara Falls. treaty of 1817, he pointed out, in making it unnecessary to fortify the themselves ignorant of the horrible boundary line of over 3,000 miles between Canada and the United States, has been an example to all the world of the priceless advantages of an agreement for disarmament. During the conference, an official announcement from Secretary Knox was read, stating that the great Judicial Arbitration Court is now an accomplished fact, and is likely to be in actual existence, if not in session. within two years. It is said that England, Germany, France, Russia, Austria. Hungary and Italy have already accepted the proposal to enter the court. . . .

Jas. W. Robertson, formerly of Ste. Anne de Bellevue Macdonald College, is one of the Commissioners, and may be trusted to look well to those phases of the subject bearing upon agricultural progress.

45,000 native-born are victims every year of the white-slave traffic ! This statement, made some months ago by Hon. E. W. Sims, forms the opening announcement of the annual pamphlet, "Canada's War on the White Slave Trade," issued by Rev. J. G. Shearer, Secretary of the Moral and Social Reform Council of Canada.

The numbers involved, covering Canada and the United States only, are sufficiently startling, and although but little is generally known of this nefarious traffic in the quiet rural districts of our Dominion, the fact that country girls have been found among the "entrapped," should render the question of how to stamp out the evil a live one in the country as well as in the town. Indeed, the fact that within the past few weeks, several men and women have been arrested in different parts of Canada for "procuring," proves, even to the most skeptical, that the menace is at our very doors, and aifords some revelation of the risk to the city? A little warning, a little only too quickly. Primroses in prowhich the most innocent girls, who find it necessary to take situations in ship of parent or relative, until the cities, and who have not been forewarned and protected, may be exposed.

It should be superfluous to suggest that one way by which the country is by warning its daughters, and yet such suggestion is actually necessary for in many places the parents are machinations of the "system," and how can they warn in regard to that of which they know nothing ?

Increasingly, of late years, bands of good men and women have set themselves to outwit the plotters. At ,

many depots, a woman wearing a SOMETHING ABOUT THE OLDEST badge, to identify her as a member of Christian society, has been stationed to keep watch for young "Fifteen thousand foreign girls and girls who seem "lost," or are not met by friends. In some places, persistent raids on dens of iniquity are have been framed providing that any alien women found in such environment shall be deported to the country from which they have come, as "undesirables." It is enlightening, It is enlightening, if distressing, to learn that of late. of 100 girls in disreputable houses Canada, while of girls deported from only a few hours to a place the segregated area of Pittsburg, which would have required many nearly a score were Canadians. These are but two samples, taken at ran-

Those who wish to inquire further into the subject, may refer to Dr. Shearer's pamphlet, or write to him, But from even this brief reference to store. enough that parents have a duty to dren who would take situations in searching inquiry, the safe guardiansituation is known to be genuine-are not these but reasonable precautions? Trustfulness is sometimes world cannot be trusted. In this, as proved.

The Windrow.

The Countess of Warwick is undertaking an attempt to consolidate the hold," and it must have taken all Social Democratic Party, the Fabian their time to do that.

Our English Letter. X

TOWN IN ENGLAND. Ι.

When I was leaving Canada, a friend said to me, " Surely, when you find yourself in Devonshire, you will made, and in the United States laws not come away again without visiting Totnes, one of the most ancient and interesting spots in all England ?" In addition to this advice, she kindly added a carefully-prepared little programme, which, alas, I could but follow in part, as my time was very limited. It was too proin Boston, about one-third came from voking to be obliged to allot days to have explored thoroughly, but, all the same, it is astonishing how much can be accomplished when one decides to make the best of one's limitations, especially when the sun shines brightly, as if to the headquarters of the Moral and to encourage one's efforts, and when Social Reform Council of Canada, every step one takes is pregnant with Confederation Life Building, Toronto. the promise of even better things in I had started from Teignhis booklet, does it not appear clear mouth by an early train, and had revelled in the sight of the wildperform towards those of their chil- flowers which had garlanded the banks through which we had passed fusion; violets peeping out between vellow daffodils as a carpet of gold, and graceful ferns keeping them company. I could not help wondering whether or no the grim warriors of a desirable virtue, but the strange those early days, when Judhel de Totnais first received his grant of the can best lend its help in the matter in many other things, it must be Borough of Totnes from William the ('onqueror, had eyes for the beauties of Nature, or whether they took no heed of them, living, as they must have lived, under the unwritten but fully recognized law of "What we have we

truit choice its Sc a high as fine is no finer I the T Ano It is t on the fold a on the shall ing.' merch had to selling mint i reign quaint tures (be abl ciceror old De sexton had be \fter_ the co old de

the 10 age to

has es makin

be tor

 $new \in g$ back t

which

ing of at 8 j

on the

month

in the

cloth.

pany

of the

Totne

but th

Parlia

disapp

2

George E. Hoxie, of Westerly, R. I. is one of the many who believe that it is to a farmer's advantage to encourage birds to come about his place, but he supplements believing by doing. He has on his homestead over twenty bird-houses, all occupied. and by encouragement he has also induced a great number of others to nest in his trees. As a result, he believes that his annual income has been appreciably augmented, especially the fruit crops, which have been largely protected from insect posts by the birds

. . .

For some time there has been a ed cation in the Dominion, and it now appears that definite steps have is wors, it was anno meed by Hon Marken de King that a Royal Conhas been formed to investi anada's needs in this direc with power to study the a other lands Prof

usual plan of the of the traffic is to advertise for help. Nurses, stenographers, seamstresses, domestic helpers-all are wantedeasy work-and good pay. With all confidence, the girls apply, and usually the parents are well pleased. Means, perhaps, are lacking in the home, and there are many mouths to

Still trustful, the girl makes her way to the city, probably alone. A representative of the "firm." perhaps a man, perhaps a woman, meets her, and all seems well. At the next step she is within a house of shame. Locked doors, barred windows withheld street garments, prevent escape, while drugs and brutality their debasing, enslaving, crushing work " Aiterwards, the girl, ashamed to tell of her true condition, withholds the truth, or is compelled to Vice drin's drugs and disease

ities of the United States Nor has Unfario to the Yukon, and to every

Society, and the Independent Labo Party into one English Socialist

In 1907 the City of Portland, Oregon, undertook to set out 250,000 rose bushes within three years. The task has been fully accomplished, and a great rose festival will be held during the week of June 6-11.

Last month, two Chinese, who were Oil Company for the sale of some land outside of a city in Hu-nan. were beaten to death by a mob. Evidently. China is in active sympathy with the prosecution of the Big Can.

Like his father. King George is shorter than his wife. He is a tire- Its previous history is such a mix-less walker, and fond of the woods ture of truth and fable that it is lost

Prof. McFadven, of No. 8

THE ANTIQUITY OF TOTNES.

There is no question as to the right of Totnes to the title of the oldest town in England. Many places claim that they were borough towns when larger localities, which have since grown into cities, were more bits of juzzy down," but with Totnes this is no empty boast, for its record stands on the pages of Domesday trying to negotiate with the Standard Book, and on other archives, and when, some years ago, the Lord Mayor of London gave a banquet to all the mayors of towns (not cities) in England, to the mayor of Totnes was accorded precedence as representing the oldest town of all.

in the mists of antiquity, but tradition has it that Brutus of Troy landed at Totnes, and colonized it after his own rough fashion, a large stone known as the Brutus stone. standing in a prominent position to ing to commemorate the fact, if fact The local belief in the story of its being the duty of the on the ascension of a new Emitus Stone in the Fors

> in many indications, but onl s four original gates o us they were origin: the hand of time has will upon them, but rer-tored. The east gat arched portals, one for losed with gates, and

JENE 9, 1910

36

THE FARMER'S ADVOCATE

Fifteenth Annual Report

of the Toronto Chil-

dren's Fresh-air

Mission.

I count this thing to be grandly true,

That a noble deed is a step towards

Lifting the soul from the common sod,

To a purer air and a broader view."

Superintendent's Report, 1909.

Each year tells a wonderful story of

God,

smaller one, or "needle's eye," al- chair used by the town clerk, she Hope's Quiet Hour. the room over this gateway are many interesting relics, but I did not manage to m them. The north gate has escaped modernization, but in center, which once had served the making the necessary repairs, much of the luxuriant foliage, which had truth of the well-worn adage that. been one of its chief beauties, had to Nature, however, is tion." be torn town. already slowly but surely weaving a new garment of greenery with which to cover the old rents, and to give back to the fine old gateway much of

its original aspect. Amongst the old-time customs which survive in Totnes is the ringing of the Curfew (or cover-fire) bell at 8 p.m. After it has been rung on the treble bell, the day of the month is tolled on the sixth bell. The staple industries of the borough in the days of Queen Elizabeth were cloth, leather, yarn and shoe manufactures, and it did an important trade with France, its Merchant Company then safeguarding the interests of the traders. " The hose of fine Totnes " was held in high repute; but the war between Charles and his Parliament caused a decline in the woollen trade, which has now wholly disappeared. To-day, its chief exports are its cider, made from the truit of the surrounding orchards, its choice sweetmeats, and the timber from the woods of the district, whilst its South Devon pedigree cattle have a high reputation amongst the agriculturists of the home land, as well as finding a market to some considerable extent in South Africa, and there is no sweeter cream or butter, or finer poultry, than can be bought at the Totnes market

Another quaint old custom survives. It is that of exhibiting a white glove on the end of a staff at the Rotherfold and on the Plains, to indicate, on the day before the holding of each of the two yearly fairs, that there shall be "free and open-handed dealing." This is a survival of the past. when, except on such days, trade was confined to members of the guildmerchant, and at other times people had to pay fines for opening shops or selling goods. History, and not tradition, asserts that there was a mint in Totnes as far back as the reign of Ethelred, in 978. Coins were also minted in the town in the days of William Rufus, many specimens of both being still in existence.

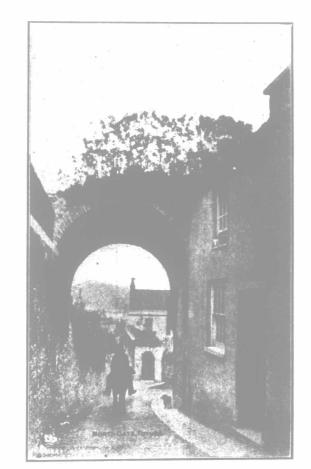
THE GUILDHALL.

aces I was able to visit was the

time terror of the brawler and the drunkard of the long ago, and an elm trunk, with a hole bored through the truth of the well-worn adage that, " Necessity is the mother of inven-

THE GUILD ROLL

The old guild roll, with names of members, is dated 1260, one name on it being struck out, because the bearer of it was hanged, the reason why not being stated. In these days of puzzledom over



North Gate, Totnes.

Perhaps the most interesting of the Budget propositions and tariff re- the work amongst our needy children; no would have imagined 'in the early days of small things' that it could have learn that, according to documentary grown to such proportions.

dren into their homes for the Master's sake. It meant real sacrifice in many cases; one lady asked for a mother and her seven children; a father, on hearing the appeal for homes, volunteered to take six boys, but returned in half an hour to say that perhaps he had better consult his wife. They certainly gave their two boys a good time. Another family, blessed with "only thirteen children" of their own, asked for two hoys. A young lady with an aged mother and an invalid sister took two little girls.

It would do one's heart good to hear the children themselves tell of the "swell times we had on our farm, and they gave us all we could eat." And then to see them come tumbling off the train on their arrival home, laden with parcels containing substantial clothing, homemade bread, vegetables, chickens, pigeons, etc.; in fact, everything that would make a child happy. Best of all, to hear the children tell of being taugat out of God's Word, and sometimes of a morning and evening prayers learned.

Much credit is due the railways for their continued interest; it is doubtful if this Mission would have been started if it had not been for their generous assistance. The Grand Trunk, Canadian Pacific and Canadian Northern, have kindly offered to do their part for 1910, and to show what a good example does, the Michigan Central has agreed to grant us the same rates.

Our thanks are also due Mr. Thos. Thornton, who kindly printed the Reports, also the Toronto Engraving Co., for plates for the same.

Requests for money are never made for this work; a brief report is published each year, and we are solely dependent upon those into whose hearts God puts the desire to give. We have mever gone into debt, trusting our Heavenly Father for all needs.

This past year shows the highest record, 702 children being sent out for at least two weeks' holidays; the previous record being 532, in 1908.

The average cost per child for a two weeks' holiday in the country is one dollar.

As the Nurses See It.

What a wealth or learth of pleasure the word "Summer" may mean. To many it is the season when God's green earth may be enjoyed for weeks or months. Many children are at this time planning wonderful experiments to be realized when the summer holidays bring the usual trip to the country or lakeside, and preparations are perhaps already in progress. But what a contrast is presented by the word to hundreds of little hildren who have never seen the gree fields and cool rivers that lie as yet in the recesses of their imagination. To them, summer means such long, hot days, and dirt and dust. A few minutes' walk from the Mission would take us to a street where, in a one-roomed rear, about eight feet square, a mother and four children are living. A bed, stove and small table compose the furnishings, with the addition of a box upon which Jackie has been sleeping. The father is in a Comsumptive Sanitorium, and upon the mother has fallen the problem of providing for her four little ones. Their picyground is a

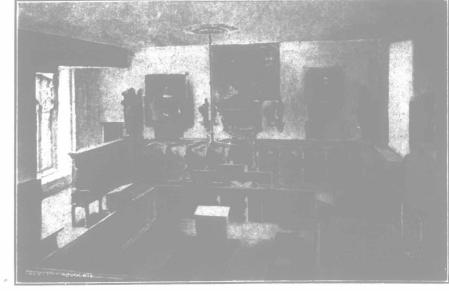
959

quaint old guildhall, one of the pic tures of which I hope our editor will be able to make room for. My kindly cicerone was a rosy-cheeked, typical old Devonshire woman, wife of the sexton of the grand old church of St. Mary, in the precincts of which, on what had formerly been the site of the old Priory, the present guildhall had been built, several centuries ago. liter showing me the hall of justice, the committee rooms; the blocked-up some underground cells below the the concession. Truly, "other times, council chamber: the pictures; an other manners." II. A. B. ancient chest, and the curious arm-

evidence, an agreement was entered into in the year 1236 between the burgesses of Totnes and the Abbot and Convent of Buckfast, whereby the Abbot and Monks were received into the Guild, " to buy, but not to sell," and when the then Lord of the Manor exempted the Abbot and Convent of Torre from the payment of tolls, the Guild exacted from them an annual acknowledgment of two shillings for

We were told then that homes in the country could not be found where the children would be taken free of charge; but God implanted in the hearts of a few that there were many of His children living on good farms, who would be willing to take them if they were only made acquainted with the needs. From seven homes offered in the Lindsay district the first year, the number bas now grown to about 350.... We indeed are grateful to all who helped in the work, especially to those who received the chil-





Totnes Guildhall.

narrow lane, deep mud in wet weather, hot and dusty in dry weather, or a yard where a few old wagons used by ragmen are kept, not a single tree or blade of grass to relieve the glare of the hot sun. In a little narrow street near-by, another family may be found living in a tiny hovel, the kitchen having sunk until everything is at an angle, reminding one of a sea voyage. Here we find several small children. Two of the boys earn a little by selling papers, but the income is very scanty. When school or work is over, they may join the smaller ones in the alley. On one side is the wall of their little house, and on the other ashes and garbage, the only shrubbery to be found in the ward. But not only in the ward are the candidates for fresh air found. South of Queen street, a case recently visited, brought to light a family living in a deplorable state, no-not living, for such existence can scarcely be called "living." A father and two young boys occupying two rooms, one as a sleeping apartment, where a few old coats composed the only bed they had. In the outer room a little stove was found, one chair, and half the remains of another, a basket of gurbage, and a box, the scanty meals being served on a little table made of rough boards. The mother is dead, and the two little girls are being looked after by neighbors. The father has been unable to obtain steady work, and has only been able to earn sufficient to keep his boys from starving. One could not help but think how that pale-faced little lad wearing an old pair of girl's boots would enjoy a few blissful hours at some swimming hole. A few blocks south of this, just off King street, a mother was lying ill; from her room she superintended the family affairs. Δ little girl of nine years was doing the washing and looking after the little brothers and sisters. As meal time approached she began to watch for the

brother and sister coming home from work, who are scarcely more than children. Such is the life of many a child. Are these little ones not to share in the pleasures which are rightfully theirs? One of the nurses, while walking

through the ward carrying a bunch of flowers, met a little girl who looked longingly at the bright-colored beauties. How those big eyes sparkled when she saw that she too was really to share such treasures. A long drawn, "Oh! my!" and then the happy, dirty little face was lost to sight in the flowers that were "really truly" hers. Think what rapture it would be for such a child to revel in the beauty of a daisy field.

The more one sees of the daily life of many of Toronto's children, does one realize how much must be done to teach our boys and girls to five healthy, moral lives and surgly a trip to the country

THE FARMER'S ADVOCATE

1.0

If the same children are desired again, kindly let the Secretary know. In your correspondence, please state

whether Miss, Mrs. or Mr. State post-office address and nearest railway station.

We wish to have by June 20th, the names of friends who desire to take our children.

Please join us in earnest prayer that, above all, our boys and girls may learn to know and trust Jesus as their personal Saviour.

Chas. D. Gordon, Superintendent; Miss Florence Roberts, Secretary, 21 Scarth Road, Toronto; Martin Love, Treasurer, 186 Spadina Road, Toronto.

The Leaders of the Fresh-air Mission are very grateful to readers of "The Farmer's Advocate" for homes offered and money sent in past years. Will you do your part again—and promptly? If each of you sent a contribution in money, or offered to take two children for a fortnight—if not too far from Toronto—what a lot of happy little people there would be ! Our Lord still says : "Whoso shall receive one such little child in My Name receiveth Me."—S. Matt. xviii,: 5.

The Ingle Nook

[Rules for correspondents in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and address with communications. If pen-name is also given, the real name will not be published. (3) When enclosing a letter to be forwarded to anyone, place it in stamped envelope ready to be sent on. (4) Allow one month, in this department, for answers to questions to appear.]

Initialling Linen.

Have you ever noticed the daintiness, the little air of refinement and personality that initialling gives to linen and lingerie? Embroider a pair of plain



A Welcome Letter from Jack's Wife. Dear Ingle Nook Friends,—If you knew

how eagerly I looked forward to "The Farmer's Advocate'' night, you would know that I mean it when I call you "friends." In this far-off land, the old names and home papers are very welcome. I am more than glad that the little paper I wrote on 'Care of Babies' has been so helpful. It more than repays me for several years of more or less serious study along that line-and here I will tell you what I have never before told "Advocate" friends : Many years ago a little son came to us, and while I do not feel it was because of my ignorance we lost him, yet I do feel that had I known even a little bit of the needs of a child, I could have made his short life less painful. After his death, I determined that if I ever again became mother I would know something, at least, of the care of a child. and so I







cans, and the majority of them cannot speak English at all. Some of them understand a little, but cannot speak it, while many do not even "savvy." For once in my life I appreciate the old "Latin roots" I worried through at the age of ten.

FOUNDED 1866

I suppose you wonder if it is hot out Well, the thermometer has been here. from 100° to 110° several days in the last two weeks, but it is like Manitoba cold, "you don't feel it." We have had two wet days since January first. Strangers are always thinking how much a rain would cool the air, but rain is the one undesirable thing here, as it only intensifies the heat. The strawberry sea son is now over (written May 24), and apricots and cherries are in the market The first crop of hay is taken care of and the second is nearly ready to cut We have had roses in bloom since March. and oleanders are now in their glory.

Some day I hope to be able to write you more of this country, but just now you will just forgive me—but, I hope, not forget me. A dios.

JACK'S WIFE. Palo Verde, Arizona.

Another Old Friend.

Dear Dame Durden,-Just a year has passed since I was in your midst, and this morning I feel that it would be a great pleasure to shake hands with you all again. I have been a silent, though none the less ardent, reader of our dear Nook all this time; now I come to tell the old, old story of how much comfort and benefit I derive from reading your letters, and from our editor's talks. I cannot see how we can help living better lives every day. Let us be patient, prayerful, earnest and true, forgive those who need to be forgiven, and cover their failings with the mantle of charity and love. We all make mistakes as we journey through life, therefore, I think we should not be uncharitable in regard to the errors of others. This world would be much happier were we all to be a little more generous with praise and less so with faultfinding. There is plenty



with aftern in tw till 7 sized strain at a t thick overni tables tables with 1 when it ris loaves with 1 that y

JUNE

you he Can clemat with 1 With

Gien Baile light, mixed and s applica mould. nure o Clemat cut ba lata, very l kinds tode v cure h Many were s

reache

Dear silent for a little 1 I am had v Would or fall spotte ing t grow the No from plante IWO dressin I wi good: granul Beat Midd The pend o grown given after t f th .Just

would help very materially.

What can I do to-day?
Not gold, or ease, or power, or love, to gain
Or pleasures gay:
But to impart
Joy to some stricken heart.
Bring to the fold again
Some lamb astray;
To brighten life for someone
Now and here,
This let me do to-day.

What We Ask of Our Friends Who Take the Boys and Girls.

To take them for two weeks' holiday. To be strict, and not withhold correction when it is necessary.

To notify children's parents of their home-coming.

To kindly write Secretary as to children's conduct (good or otherwise).

We desire to send them all out in July, commencing Tuesday, the 5th.

Friends to meet the children at the railway station, and see them safely on the train on their homeward journey.

We send the children two by two, s as to prevent homesickness.

We pay their radway fare, both ways We ask only for Christian homes, where the children will be received for the Master's sale.

We try and send our best-behaved and must describe hoys and girls

Kindly say whether boys or girls a

We spanned send their names before going out

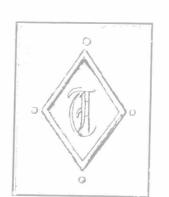
linen towels with prettily-designed lettering, and immediately they become, not merely towels, but the personal property of a dainty woman. So with tablecloths, napkins, handkerchiefs, etc.

The accompanying designs may be easily drawn by anyone who will take the time, and made smaller or larger, as the size of the article to be embro dered demands An authority says that initialling is best done working without a hoop, although the podding-stitch may be done with the linen drawn over a loop. If one has not a hoop, all that is necessary is to hold the linen over two fingers, slightly parted.

The design should be first padded by strands of floss laid on carefully and evenly, then worked over and over in fine satin-stitch. The work is quickly and easily done, and the results are worth while.

At one time, the initial was invariably embroidered in the corner of towels and napkins; now it is more usually placed in the center of the end of the towel (above the hem, of course), and in the center of the end of the rapkin, which is folded to bring it into the middle of the square as hind on the table. Personal taste must, however, largely govern in regard to the matter of position, as fashions are continually changing.

Incidentally, it may be mentioned that the gel who is preparing her trousseau, invariably embroiders the mitial of her maiden name, never that of the name she is to have when married the these days of mich broken engagements—more's the pity thus would seem to be a very wise precuration.



read everything I could on the subject. We have a baby girl of two years, the brightest and healthiest "heetle keed," as our Mexican friends call her.

I wish I had time to write a real "article" for you, telling all the things we have seen and heard since leaving Canada last October,—but you remember I always told you I was busy. Well, now I am busier, for we have a small stock of merchandise on a cross-road, seven miles from a village and post office, forty miles from 1910 as, the capital edy, which boasts all at 20,000 people Atom one-half our cities are de Mexi

of flattery—that is not what is wanted. A word of just appreciation would cheer the heart and strengthen the hands of many a discouraged worker. Let us devote our time to making home happy and cheerful. The great lever that moves the heart is love; it is the basis of all excellent thought. Happy is the home governed by the spirit of love, each member striving to avoid giving offence and studiously considerate of the others in every way. Your Leart will grow with love stronger as time rolls on.

Many of our young people launch out that is one great reason for so many not to be entered into thoughtlessly, as one goes to a dance or theater, nor to be dissolved with as little concern. Perhaps you will think I am preaching what I did not practice when I tell you I married at the age of twenty-one, that it is now thirty years since "Will" and I set our feet in the same path. Don't think that all has been smooth travelling - no life is without its trials, yet I think few would have less complaint to make. I try to be all he needs, and he thinks a woman has all she can do in the house. I should like to take each and every troubled siste of the Nook by the hand and speak woul of cheer, but as this is impossible I will trust that the future holds about for all, and that the mantle of charity

Bread fit for Your King.—Set a quarter of a Boyal yeast cake in a pint of water



For

the

had rst.

is

sea-

and

of

nd

I

₩e

nk

rd

nđ

with the chill off. At 1 o'clock in the afternoon, when the yeast dissolves, stir in two tablespoons of flour and leave till 7 o'clock, then boil three mediumsized potatoes and pound in water, then strain and have a gallon of potato-water at a temperature of 68 degrees. Make a thick sponge, adding yeast, and leave overnight. In morning, add two even tablespoons of salt, and two heaping tablespoons of sugar, and mix down hard with flour; then mix down twice, mixing when it rises up well, and the third time it rises put on the pans-two-pound loaves are best. Bake in an oven heated with hardwood, having ven hot enough that you can just count to twenty when

you hold your hand in. Can anyone tell me how to care for clematis vine? I have had a failure with mine.

With love and good cheer to all. MAYFLOWER.

Glengarry Co., Ont.

Bailey says to give the clematis a light, loamy soil, with a little lime mixed in. It should be well drained, and should be kept enriched by annual applications of manure or rich leafmould. Mulching with half-rotted manure on the approach of winter is good. Clematis Jackmani should be vigorously cut back in November. Clematis paniculata, and other hardy varieties, require very little attention. The more tender kinds are sometimes attacked by a nematode worm in the roots. So far, no cure has been found.

Many thanks for the violets. They were still damp and sweet when they reached me.

Plants-Recipes.

Dear Dame Durden,-I have been a silent reader of your interesting Nook for a long time, and am coming for a little help.

I am very fond of flowers, but have not had very good luck with some kinds. Would you please tell me whether spring or fall is the proper time to start spotted calla bulbs? I have tried planting them both seasons, but they just grow up and then die off. Have any of the Nookers ever tried growing tulips from the seed? When should they be planted? Do they need very rich soil? I would like a good recipe for salad dressing

I will send a recipe which I think is good:

Graham Bread.-Add half a cupful of granulated sugar to one beaten egg. Beat and add one cupful of buttermilk or sour milk and two tablespoonfuls of sour cream; add one and a half cups of Graham flour, mixed with one cup white our Beat in half a teaspoon of soda dissolved in a teaspoon of hot water. BROWN EYES. Bake slowly. Middlesex Co., Ont.

THE FARMER'S ADVOCATE.

formation about it in any of the gardening books. The usual method of propagation is by using the side offsets, or by producing new bulbs by a peculiar method of cutting the old bulbs. Perhaps some reader can answer.

Tulips are not very particular as to soil, but do best either in a light sandy soil, or in soil which has been made rich in a preceding year. The latter produces the finest flowers, the former the best bulbs.

Salad Dressing.-2 eggs, butter size of an egg, 1 level tablespoon mustard mixed in a little milk, 2 tablespoons sugar, 1 cup vinegar, pepper and salt to taste Mix beaten eggs, sugar, mustard and salt; then add vinegar and heat in a double boiler, stirring constantly, the one way, until smooth and creamy. When cold, whip in half cup cream.

Re Curtains and Rugs.

Just a word of advice in connection with the buying of rugs may, perhaps, be permissible. Think of the ultimate decorative scheme before you make your purchase. Remember that every room should have a color key, which should not be departed from. This does not mean, of course, that only one color should be used, but that all the colors in floor coverings, window draperies, furniture and woodwork should harmonize The general rule is to have the strongest color on the floor, and the lightest on the ceiling. If, as in the case of many summer houses. the walls are not plastered, only strong colors should be used in the floor coverings, and the dainty shades should be avoided. Reds, tans and yellows will introduce the needed note of color.

When it comes to window draperies, this same thought of color and a color scheme should be borne in mind. Moreover, the materials from which draperies may be made are almost endless in variety, and the prices in many cases are low enough so that they need not frighten the owner of even the most modest summer home. It is not necessary to buy ready-made curtains. In fact, it is not the best plan, for one may go to the department stores and find domestic cotton prints, dimities, cretonnes, unbleached cotton, cheesecloth, crash, muslins, madras, scrims, nets, and other materials which may be used for making effective and beautiful curtains. Unbleached cotton and cheesecloth can be purchased for as low as six cents a yard. The most expensive material included in this list would hardly cost over sixty-five cents a yard. In some of the smaller towns it might be difficult to get some of the materials named, but there are few stores do not carry curtain muslin in figures and stripes, which ought not to cost more than ten cents a yard. Many of these goods are figured in bright colors, and in designs which are not large enough to be offensive. On the other hand, the unbleached cotton, cheesecloth, scrim, and crash, may be stencilled so as to produce beautiful effects, if careful attention is paid to the color scheme.



am the Queen of the Flour Bin, the ladyin-chief of the Royal Pantry, the oracle of the Royal Household.

I want the attention of as well as more wholesome Big Folks and Little Folks, of Experienced housewives and Inexperienced-of Rich housewives and Poor ---Young housewives and Old.

For I have stories to tell. Secrets — flour secrets to unfold.

And these secrets have come by Experience — by actual knowledge of flour, that nobody has told you actual siudy of different before. These Pantry Talks grades of flour.

Royal Household Flour

so named because it was the flour selected for use in the Royal Household of Great Britain. It is the one flour in Canada which

stands out head and shoulders above all the rest. It is made in Canada by the largest miller: in the British Empire

The Ogilvie Flour Mills Co. Limit 1, and, because of its and absolute uniformity, satisfaction both for Bread and for Pastry. 21 Superfluous Hair



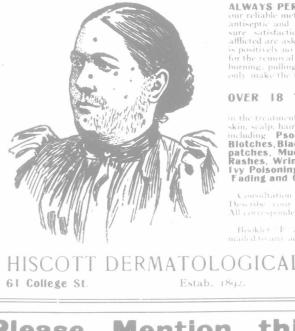
The time for starting callas must depend on the season when one wishes them to bloom. When grown for winter bloom, the roots should be rested in summer and started in fall, the best treatment, Bailey considers, for callas grown as house plants. An aunt of mine had great success with these plants, and her method was as follows: During fall and winter the lants were grown in a light north co east window (doublesashed), in good, black, mucky soil, with plenty of root-room, and plenty of draincallas like plenty of moisture, they do The temperature was never perinitied to go below 55 degrees, and a little warm water-just enough to run through a little into the saucer-was given every day. From time to time, after the growth was established, liquid fertilizer was added; and the foliage was frequently showered with clear, tepid water. When the blooming season was over, the water was withheld somewhat, and in June the pots were taken out the garden. Here they were left. September, when they were reported. brought into the house, and treated as

Just here, Eben Rexford says that the best seil for callas is a compost made ap of muck, well routed manufe, and

Ruffled muslin curtains are going outof-date. Some of the best stores are not carrying them in stock at all this season, unrufiled curtain, hanging straight, is much more harmonious.

The curtains of the average summer home ought to be kept at the sides of the windows. In the case of many city houses, there are good reasons for using double curtains, or for hanging draperies case of the country home, on the condows free of all obstructions, as the matsidered. It is hest to use curtains which hang only to the holtom of the sill, unless the window is very wide and it is The curtains may be nong from brass If inside, it is well to be sure that the the measurements should be made at the I have never neard of account starting top of the window, cust where the rod dips from seed, nor cas I field are to as to be attached to there is often a

ON THE LIP, CHIN, CHEEKS, NECK, EARS, BETWEEN THE BROWS ; ALSO Moles, Warts, Red Veins etc.,



ALWAYS PERMANENTLY REMOVED by ALWATS PERMANENTIAL REMAYED by our reliable method of Electrolysis, which is antiseptic and practically painless. We as-sure satisfaction in each case. Ladies afflicted are asked to bear in mind that there is positively no other permanent treatment for the removal of superfluous hair. Cutting, burning, pulling or the use of depilatories only make the trouble worse. We have had

of making better Bread and

Cakes and Pies and Pastry,

that will be profitable to you.

one flour is more economical

than another, that, too, will

be profitable.

And if I can tell you why

For I mean to go into

the flour question deeply,

giving Whys and Where-

So if you follow my little

stories from time to time,

as they appear, you will learn

lots of things about flour

of mine will be chiefly about

fores, Facts and Figures.

OVER 18 YEARS' EXPERIENCE

in the treatment of the above and all other skin, scalp, hair and complexional troubles, including **Psoriasis**, **Eczema**, **Pimples**, **Blotches**, **Blackheads**, **Freckles**, **Moth-patches**, **Muddiness**, **Discolorations**, **Rashes**, Wrinkles, Goitre, Red Nose, Ivy Poisoning, Dandruff, Falling Hair, Fading and Grey Hair, etc.

Consultation free at office or by mail, Describe your trouble fully when writing. All correspondence is strictly confidential.

Booklet 'F and sample of Toilet Cream mailed to any address. 1

HISCOTT DERMATOLOGICAL INSTITUTE TORONTO, ONT.

Mention this Please Paper.





Let the children drink all they want. Healthful, nutritious, delightful.

Absolutely pure. That rich chocolate flavor. Very economical.

The Cowan Co. Limited, Toronto. 88

A suburban, chemist had been advertising his patent insect powder far and wide. One day a man rushed into his shop and said excitedly

"Gimme another half-pound of your powder, quick, please." "Oh!" remarked the chemist as he pro-

ceeded to fill the order. "I'm glad you like the powder. Good, isn't it ?" "Yes," replied the customer. "I have

one cockroach very ill; if I give him another half-pound he'll die

WHAT NEGLECT DID FOR HI**m**

THE FARMER'S ADVOCATE.

material difference in the width at the rich foods. A small cup of hot beef tea top and the bottom of the sash. Oftentimes a valance adds much to the effectiveness of simple curtains. A second rod may be used, in which case the valance should extend the full width of the windows; or the valance may be only as wide as the distance between the two curtains, hanging on the same rod.

Cretonnes are particularly in favor, and deservedly so, because of the fact that they do not fade easily, something which cannot be said of many other materials. When cretonnes are used in bedrooms, a harmonious result may be obtained by using the same material and design on the tops of the tables and dressers. Cretonne costs from twenty-five to sixty cents.

Scrim curtains are also in great demand, especially for small rooms, with dainty furniture. Scrim is soft in texture, and the color is a beautiful ecru. Such curtains, either stencilled or hemstitched, and with an attractive edging, are particularly artistic. They come plain, and with cross bar patterns. Scrim costs from forty to fifty cents a yard. A new, attractive and inexpensive material is printed scrim

Madras curtains are again in favor, and have much to recommand them, being durable, easy to wash, and coming in pleasing colors, which do not disappear in the laundry. If double curtains must be used, it is well to use madras for the over-curtains, the inner curtains being of scrim. A wide variety of colors is found in madras, including blue, red, green, light gold, rose, ecru, terra cotta; the prices range all the way from thirty-five cents a yard for thirty-six-inch material, up to one dollar a yard for 45-inch material.-Suburban Life.

Our Scrap Bag.

Have an ordinary garden-hose faucet placed on tub or washer, and drain the water through the hose to the flowerbeds in the back yard. This will save much heavy lifting and carrying.

To Hemstitch by Machine - Take three thicknesses of new paper, and a needle large enough to penetrate without breaking, and stitch right through. After taking the material from the machine, open gently.

Add table salt to gasoline to prevent the "ring" when removing spots. Many a dry cleaner's bill can be saved by knowing this.

An Ointment for Sunburn - Mix a little fuller's-earth to a soft paste with elderflower water or cream. Plaster it over the skin, leave on for fifteen minutes. then wash it off in two rinsings of hot soft water. Afterwards apply a little

taken an hour before dinner will be found an excellent stimulus to the gastric juices. . . In old age, meals should be light and frequent. Free use of milk is recommended, and apple juice as a solvent for the lime salts which inducate the blood vessels. While strain and excitement should be avoided, mental work of an interesting nature will be found conducive to the health of both mind and body.

"The Farmer's Advocate" **Fashions.**



FOUNDED 1866

TELEPHONE QUALITY.

It is the quality of a telephone you must look to. A dollar or two in the price is not here nor there on a telephone that you expect to use for many years. Suppose you do save a dollar or two in the first cost and get an inferior telephone, it may cost you anything from two dollars to ten dollars a year to keep the inferior telephone in working order.

You see, therefore, it is poor policy and expensive business to try and save a dollar or two on the first cost, and face the continual expense of maintenance of a poor telephone.

Quality is what you must be particular about. Make sure you are getting a high standard telephone, and let the price be a secondary consideration.



Our Special Study

JUNI Th

> [All wi Those who has between write f at sch each le

spring flower differe Flowe the p membe early that y

tween

of find

ings,

Dear

cate a

in for

but th

each v

us thr

and if

anythi

ing a

descrip

sible. I do

bing t

buying

becaus

(but s

be too

have

Beaver

a que

homes.

stack

alfalfa

of his

herd,

Say

every

I ag

A Gor gests flower



Jas. E. Brant Suffered Torments from Kidney Diseases.

Then He Used Dodd's Kidney Pills and Became a Well Man-His Experience a Lesson for You.

Athabasca Landing, Alta., June 6 .-(Special.)-That Kidney Disease, neglect ed in its earlier stages, leads to the most terrible suffering, if not death itself, and that the one sure cure for it in all stages is Dodd's Kidney Pills, is the experience of Mr. James E. Brant, a farmer residing near here.

Mr. Brant contracted Kidney Disease when a young man, from a strain, and, like hosts of others, neglected it, expecting it to go away itself.

But it kept gradually growing worse till after thirty years of increasing suffering the climax came, and he found himself so crippled that at times he could not turn in bed, and for two weeks at a time it was impossible for him to rise from a chair without putting his hands on his knees.

He could not button his clothes. . He was troubled with Lumbago, Gravel and Backache, and trad medicines for each and all of them without getting relief.

Lodd's Kidney Pills started at the cause of his troubles and cured his Kid-ness Were cured kidness his other

cold cream.

Cure for Ivy Poison.-3 grains hyposulphite soda to 1 ounce water. Apply as soon as possible.

To Keep a Print of Butter Cocl.-Place it in a bowl and set in a pan of water with two tablespoons salt added. Invert a large flower-pot over all, and cover with a wet cloth, letting the ends of the cloth reach the water. A good idea when one has no ice.

If a cake is baking too quickly, set a small pan of water in the oven.

A dip in skim milk is said to be much better than starch for fine white waists, fine doylies, underwear, etc

To Drive Away Ants.-It is said that a small cloth saturated with oil of sassafras and placed on pantry shelves, will drive away ants. A good plan is to place a large sponge, moistened and sprinkled with sugar, where the insects congregate. When a great number seem to be in it, drop it in boiling water, and

To Patch Wire Door and Window Screens.-Cut a square from wire cloth about three inches on each side larger than the hole. Pull out wires to make a fringe. Bend the fringe back, place over the hole.

Old white bedspreads that are no into excellent bath toweis

One of the commonest causes of dys pepsia is lack of sufficient mastication Chew food well, without taking any disorders will cease in addition breathe fresh air constantly, avoid weary and patent medicines, and the careful m laxatives when necessary. Be careful m

DESIGN BY MAY MANTON. Ver 1, 2 and 4 years.

Please as a 's transfer, giving age of child. Proc. ten rest for pattern Address: Pashell for the termer's Advorate,' from a Out

We made quality our special study when commencing to manufacture telephones. We took advantage of the best experience in the telephone art, and established a high standard, and equipped ourselves to maintain that standard. We will not be tempted to make a low-priced telephone, no matter how many cheap telephones may be on the market.

We are building up a permanent business, and believe that one of the essentials to our success is the quality of our telephones. The fact that our business has doubled this season is an indication that we are doing the right thing.

It Will Pay You.

If you are building a new line, or if you are extending your present lines, let us quote you on telephones. It will be a pleasure for us to discuss your wants, and it may save you many dollars and much inconvenience.

ALL WANTS SUPPLIED.

ALL WAILED SOFTLIED. Besides making telephone equipment, we carry a large stock of construction materials of all kinds, and can give you prompt service. Get our prices. If youpropose to build a local telephone line, ask for our No. 2 Bulletin, which gives full instructions how to build. Also write for one of our books, "Canada and the Tele-phone," illustrated with thirty-two picture stories, showing the value of a telephone in the rural home. These will be sent free of sharge.

DATEC. PROMPT SUBMENTS AND GUARANTEED SAT-ISLAUTON ARE MARING OUR SUCCESS.

CANADIAN INDEPENDENT TELEPHONE COMPANY, LIMITED 18-20 Duncan St., Toronto.

for to I th at pre Puck's

I thi quite i nature know satisfa evitabl my pla self, a borhoe nature in th lish th study, have t wished then o ()f cc time, 1 and re ranized tions f W = m

THE FARMER'S ADVOCATE.

The Beaver Circle.

[All childrem in second part and second books, will write for the Junior Beavers' Department. Those in third and fourth books, also those who have left school, or are in High School, between the ages of 11 and 15, inclusive, will write for Senior Beavers'. Kindly state book at school, or age, if you have left school, in each letter sent to the Beaver Circle.]

Another Competition.

Gordon McNiven, Crumlin, Ont., suggests that we have a competition on flowers, and "Barkis is willin"." Last spring we had one on drawings of spring flowers; so now we will have something different. Write a composition on "Wild Flowers in Bloom in Your Vicinity," and illustrate by three drawings drawn from the plants themselves. I will give you in the Senior Third Class. There are up to July 20th to get this done. Remember, I do not want you to tell about have a library. It contains twenty-five carly spring flowers, but about those books. I have read twelve of them. that you find as you write, any time between now and July 20th. State time of finding flowers, kind of soil, surroundings, etc. This competition for Senior Beavers only.

Re Nature Study Clubs.

Dear Puck and Beavers,-I saw in a recent edition of "The Farmer's Advocate and Home Magazine," that an Ontario boy was asking Puck to assist him in forming a Natural History Club.

I agree with him in his proposal, all but the space he as ed for in the paper each week. I suppose Puck would allow us three columns each week if required, and if not required it could be used for anything else; any Beaver who is writing about anything to give a clear description of it, and as briefly as pos-

I do not agree with Puck as to clubbing together in different localities and buying books on nature for themselves, because "The Farmer's Advocate" is not (but should be) a weekly visitor at every farmhouse, so the children would be too widespread for that.

Say that each home gives 25c., and have Puck buy the books and do the I wish it was a daily paper instead of business for them. I think that the Beavers should give their opinion when day and I like our teacher very well. a question is asked, and Puck to give his. I suppose there is enthusiasm enough in the children in two thousand homes. Surely a farmer making a whole stack of money out of his farm, growing a year or so. I have for pets one alfalfa clover and keeping a great dairy dog and a cat. I and the dog do not herd, could afford to give a quarter of a dollar to the benefit of the knowledge I have two sisters and a brother. of his children. That is, 2,000 homes. 25c. each, and I think that should start Farmer's Advocate.' and then whatever it costs after that

Perhaps someone would like to think out a good plan whereby a good Home Study Nature Club might be set in running order. If so, tell us about it, won't you, please ?

Our Letter Box.

Dear Puck and Beavers,-This is the first time I have written to the Circle My father has taken "The Farmer's Advocate" for about two years, and we all like it very much. Every Thursday afternoon I hurry home from school to read the letters.

We had quite a mad-dog scare a few days ago, as there was one went along the road, but fortunately it was shot at Byron.

I live on a farm four miles from Lon-I go to school every day, and am about sixty pupils in our school. We One was Black Beauty and another Bravely Borne, A Brave Baby, Little Indian Children, Alice in Wonderland and some others that I forget the name of. I will close, wishing the Beavers success. FLORENCE BAKER

(Age 10, Book III.). Tambling's Corners, Ont.

Dear Puck,-"Say, Beavers, don't you think it would be nice if we could have a badge with a beaver on it?" I do. I am studying to be an artist.

My brother is a lumberman; he has eight teams hauling now. There is a river not far from here, and we have a good time fishing in it.

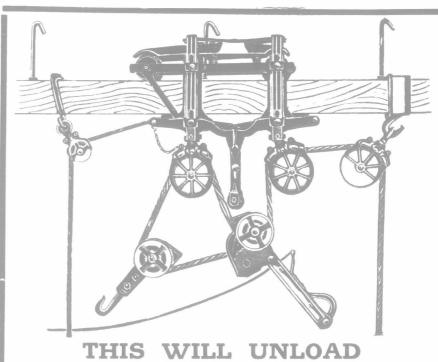
I would like correspondents of my own age (14).

JOSEPH A. MacDONALD (Book IV.). Upper Welsford, N. B., Canada.

You should figure in our drawing competitions, Joseph.

Dear Puck,-As this is my first letter I do not want to take up too much room. My papa has taken "The Farmer's Advocate'' for a number of years and I like reading the stories very much. a weekly paper. I go to school every live on a farm of 200 acres. We have some land in Saskatchewan, and I would like to go out there. Papa has been up twice, and we expect to move out in have so much fun when he is muzzled will close now, wishing success to "The

DEAN CLINTON.



And the second second second second second

YOUR WHOLE HARVEST

The Only SLING OUTFIT on the market that can LOWER its load in the mow. This SLING OUTFIT will unload your whole harvest of Hay and Grain, bound or unbound, such as Hay, short dry Clover, loose Barley, Peas, Sheaves, Seed Clover and Cornstalks. And the beauty of it is, it places its load in the mow in such nice shape. The sling load don't have to fall all the way from the track, in the peak of the barn, down to the mow, as with all other Horse-forks or Sling-outfits.

The JONES PATENT HAY AND GRAIN UNLOADER LOWERS its load from the track right down to the man in the mow-then he can take his fork and swing load to any part of mow and trip it. In this way mow is kept level at all times, saving nearly all the work of mowing away, besides doing away with old time packing down of hay and grain in centre of mow.

THE JONES PATENT HAY AND GRAIN UNLOADER has many other new and important improvements, all of which are explained in our FREE catalogue.

and important improvements, all of which are explained in our FREE chalogue. THE JONES PATENT HAY AND GRAIN UNLOADER is made of finest malleable iron and steel of double weight and strength. It is the strongest un-loader, and unloads any load of hay or grain in three lifts. There are THOUSANDS giving EXCELLENT SATISFACTION. We will ship you a JONES HAY AND GRAIN UNLOADER ON TRIAL. After you use it, if you are not pleased, ship it back to us and we will cancel your order. This UNLOADER is sold on EASY TERMS, and will pay for itself first season. If Drop us a card and we'll send booklet FREE.

The Hamilton Incubator Co., Limited - Hamilton, Ontario

ROYAL BRAND FARM FENCING **AT MANUFACTURERS' PRICES**

WE sell direct to the farmer : no agent's commissions, no dealer's profits to vv pay. Since adopting a direct-to-the-farmer policy, less than four months ago, the demand for **Royal Brand Fence** has been so great that we have been obliged to run our plant day and night to keep up with our orders. We are now increasing our manu-

963

for to run it

I think I have said enough about it at present, as I don't like to oppose Puck's opinion too strongly.

JOHN CUSICK (age 16). Walton, Ont.

I think John misunderstood me. It is quite impossible for us to be sure of even three columns a week to devote to nature-study in Beaver Circle, and you know we would not like to have an unsatisfactory club, such as would be inevitable if space were not assured. By my plan, each little club would run itself, and all the children in each neighborhood would have the good of the nature-study books (which would be kept in the section), whether subscribers to "The Farmer's Advocate" or not. All I could promise to do would be to publish the names of good books on naturestudy, with prices, and forward such, or have them forwarded to any club that wished me to do the buying. We might procure advertisements from firms that make a specialty of such literature, and then ordering could be done directly, and all business transacted directly between

the clubs and the publishers. time, but that would be a different thing. and require much less space than an orvanized magazine club, with contribuions from thousands of members.

You see, Beavers, I should like the off ge you in this, but I realize, as peraps you cannot, how much · required for so vast a scheme, and ow much is actually at our discover. However, send us native left to whet er you can, and we shell do the test. Due that, it was storming this morn- ℓ can about finding a line to trans around 1 def ℓ , go to school, as I

Feversham, Ont.

Beaver Circle Notes.

The following would like some Beavers to correspond with them : Mildred Orchard (age 13, Class V.), Sheddon, Ont. Lillibelle Graham (age 10, Book III.) Middlemiss, Ont.: Gladys McCallum (age 10, Book III.), Iona Station, Ont.; Helen M. Hodgins (age 9, Book III.), Osnabruck Centre, Ont.

Riddles.

1. There is a hill and on the hill there is a mill and in the mill there is a table and on the table there is a box and on the box there is a bottle and in the bottle there is a drop. No person can live without that drop. Ans.-A drop of blood.-Sent by Johnnie Gascho

The Junior Beavers.

Dear Puck and Beavers,-This is my second letter to the Circle, but before it was not printed. My father takes "The Farmer's Advocate." and I enjoy reading I go to school, and have about a Of course, I hope to have nature-study it. I go to school, and have about a articles in Beaver Circle from time to mile to walk. We have lots of fun at school. I play the organ, and can play quite a few pieces. I have little brother; his name is Robert I have read quite a few books. These are the names: "In His Service," "Little Nell," "Merchant of Venice" I will close. ELSTE MAY MACKEY.

Ale (lass II, Sr.)



facturing capacity to double its former size. Royal Brand Fence is sold independent of any combine. Our policy: not how much can we get for our fence, but how cheap can we sell it. Compare our prices. Royal Brand Fence is made of all No. 9, Cleveland hard steel wire, heavily galvanized. The line wires are waved as in coil spring, to allow for expansion and contraction. Our knot is the simplest and most effective manufactured. We guarantee our fence the best all-around fence manufactured in Canada, or money refunded. In every locality where our fence has been received, repeat orders are enormous. A sample knot showing weight of wire and style of tie used in Royal Brand Fence will be mailed free upon request. Write to-day.

| Number | Line Wires | Inches High | Inches Stays Apart | Size of Wire | SPACING Between Line Wires | Per Rod Freight Paid | |
|--------|---------------|----------------|--------------------------|-----------------|-------------------------------|----------------------------|---|
| 7-40-0 | 7 | 40 | 22 | " 9 | 5.6.6.7.7 1/2.81/2 | 24 | С |
| 8-40 | 8 | 40 | 161/2 | " 9 | 3.4.5.6.7.7.8 | 29 | С |
| 7-48-0 | 7 | 48 | 22 | ·· 9 | 5.6.7.9.10.11 | 25 | С |
| 8-18 | 8 | 48 | 161/2 | 9 | 4.5.6.7.8.9.9 | 30 | С |
| 9-48 | 9 | 48 | 161/2 | " 9 | 3.4.5.5.6.8.8 9 | 32 1/2 | С |
| 9-48-0 | 9 | 48 | 22 | ·· 9 | 3.4.5.5.6.8.8.9 | 30 | C |
| 10-50 | 10 | 50 | 161/2 | | 3.4.4.5.5.5.7.8.9 | 35 | C |

These prices include freight prepaid to any point west of Toronto; east of Toronto add 1c. per rod to above prices. To New Ontario, Quebec and Maritime Provinces, a special allowance will be made to assist in freight. Write for sample knot. All fence put up in 20-, 30- and 40-rod rolls. *Remit* cash with your order by registered letter, post-office or express order.

The SARNIA FENCE CO., -- Sarnia, Ont. PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Please Mention The Farmer's Advocate

Farmers Take **Right Stand** Canadian farmers rightly insist that a cream

Canadian farmers rightly insist that a cream separator which contains neither disks nor other contraptions, and yet produces twice the skim-ming force of common, complicated machines, must be most modern. They believe such a separator has made complicated machines out-of-date. This is common sense and explains why Canadian farmers are buying simple

Sharples Dairy Tubular Cream Separators

Dairy Tubular Bowl. Made right. No diska needed.

shows all there s to the Shar les Dairy Tu bular bowl. containsneither

in preference to disk filled or

other common, complicated machines. The illustration

skinning force, skims faster, skims twice as clean, wears a lifetime and is several times easier to clean than common separators. The World's Best. The manufacture of Tu-bulars is one of Canada's leading induction

bulars is one of Canada's leading industries. Sales easily exceed most, if not all, others combined. Probably replace more common separators than any one maker of such machines



JUST LIKE PLAY

Six Minutes to Wash a Tubful!

Ladies! just see how easy I do a big washing Ladies! just see how easy 1 do a big washing with my 1900 Gravity Washer. I start the tub a-whirling. Then the gravity device under the tub begins to help and the rest is just like play Washes a tubful in six minules? How's that for quick and easy work? The 1900 Washer Co.sent me this marvellous machine on trial. They didn't me pay for it a little each week out of the money is saved me? They treat everybody the same way



THE FARMER'S ADVOCATE.

have a long way to go. seven years old, and I am in the into" flies, bees, wasps, mosquitoes, Part Second Book. I like going to "bugs," or even moths or butterflies, school. 1 study arithmetic and geography. I have a black cat; her name is Mouser. I am glad I have no dog to put a muzzle on. I like reading "The are already beginning to use these words. Farmer's Advocate." Well, the larvæ were simply hatched out

CECIL FERRIER. Thornton, Ont.

Dear Puck,-This is my first letter to the Circle, so it will not be very long. I have got a dog named Tricks, and he is very fond of chasing stones. He will run after them all day. I have a cow named Daisy that I milk. I live near Ladner, B. C.

ADORA MCGREGOR (age 6). Ladner, B. C.

Dear Puck and Beavers,-This is my first letter to the Circle. I live in Kent County. I go to school every day, and I have to go about two miles. My father takes "The Farmer's Advocate." We like it very much. I am so interested in the letters of this Circle that I thought I would write one too. I am nine years old, and I have two brothers, Alex. and Archie. Alex. is seven years old and Archie five.

JEAN BLACKBURN (age 9).

Dear Puck,-Other little girls write to you, so I thought I should try. I have never gone to school, but I am seven years old, and mother taught me at home. I have feet nearly as long as she has, so perhaps you will print this. I read in the second book. I have no one to play with, not e'en a dog now, as it has a muzzle on, and even with that it might scratch me, and I should have to go to a hospital. I have lots of dolls and a Teddy bear. I think perhaps this is enough. Your new AGNES HUNTER riend. Millgrove, Ont. (Age 7).

Dear Puck,-We live between three small villages, Hawkesville, Heidelberg and St. Jacob's. We go to school at Heidelberg. We have two miles to walk. I am in the Senior Second Class. At our examination this spring, I passed with the highest marks into that class. For pets I have a three-colored cat (her name is Beauty), and my little brother Jonathan; he is two years old and can talk so funny. I think you are a lady, although most of the Beavers think you are a man. Here are a few riddles 1. Why is a blind man like a liar Ans.-Because all he says is blind talk. Why sh uld we railway carriage? Ans.-Because the to wear misfit or old-fashioned clothing train always runs over sleepers. 3. What is the difference between a will exhibit to the gaze of everyone a tight boot and an oak tree? Ans.-One makes acorns, and the other makes corns KATIE MARTIN (Age 9, Book II.).

I am all, but larvæ, that may finally "turn and perhaps you said to yourself, "Well, where did the larvæ come from?" You see, I am taking it for granted that you Well, the larvæ were simply hatched out

of eggs, the teentiest little eggs, which were laid by the full-grown female insect in dust, dirt. rotting wood, on water, or in the flesh of some fruit or vegetable, according to the species of the insect. The female house fly, you know, likes to lay her eggs in horse manure, best of all, while the codling moth is more dainty, and puts hers into a young apple. Away down South, there is even a kind of flea, the "jigger flea," which pierces the skin of people's feet, if she can get a chance, and puts her eggs in there. The eggs, of course, hatch out into larvæ; these grow bigger, and finally make a sore little lump, which has to be cut open so that the jiggers can be taken out.

All larvæ, then, come from eggs. The next step is very curious. All at once the lively, wiggling creature, which has been sucking or eating nourishment as fast as it can—as you know by the way the cabbage worm, which is only a kind of larva, eats-lies very still in a crevice somewhere, and begins to grow a hard covering all over it. Some kinds ever spin a covering of silky thread, called a cocoon, all around them. Perhaps you may have found one of these cocoons fastened to a shrub or fence. Now, for a while it lies as still as a little mummy in its hard case, or soft cocoon, but all the time queer changes are going on The pro-legs are disappearing, the body is becoming divided more distinctly into the three parts: head, thorax, and abdo men, and wings are slowly being formed When the change is complete, the crea ture, now a full-fledged insect, become restless, and begins to struggle, and finally, out it pops through a hole in the cocoon, or pupa-case. . . is changing from the larva, or caterpillar, to the winged insect, by the way, it is not called larva, but "pupa." So, now you know what a pupa is. If you examine one closely, you will find queer little leg and wing forms taking shape

Now, do you think you will ever look at a maggot, or "worm," or caterpillar again without being interested in it ? You see, you know now that these queen things are just baby flies, or beetles, or wasps, or butterflies, or ever so many other things, according to the kind of PUCK.

WOMAN'S INCONSISTENCY.

How many women there are who refus

Buying A Piano Made Easy

FOUNDED 1866

from enjoying the delights of a New Scale Williams Piano in your home, by the thought of laying out several hundred dollars in a lump sum.

By our unique plan, you gain the piano of your choice by easy payments.

New Scale Williams PIANOS

 \mathbb{N}

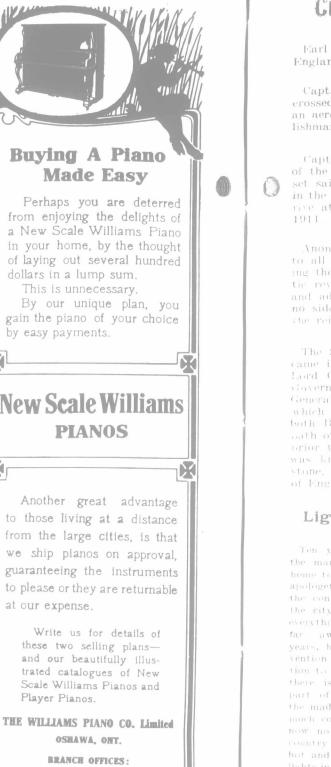
D3

Another great advantage to those living at a distance from the large cities, is that we ship pianos on approval. guaranteeing the instruments to please or they are returnable at our expense.

these two selling plansand our beautifully illustrated catalogues of New Scale Williams Pianos and

OSHAWA, ONT.

Winnipeg, Man., 323 Portage, Ave. Montreal, Que., 733 St. Catherine St. W. London, Ont., 261 Dundas St. 109 A 2



JUNE

C

Capt an aer lishma

tic rev no side

Lig

Wine dat 1 wouldn't take \$100 cash for my 1900 Gravity Washer if I couldn't get another just like it. It does beautiful work—handles any-thing from heavy blankets to daintiest laces. Every housewife who is tired of being a drudge and a slave to the washtub should write to

F. A. E. BACH, Manager.

The 1900 Washer Co., 357 Yonge Street TORONTO, ONTARIO 0191

their beautiful Washer Book and generous offer of a Washer on free trial. MRS. R. H. FREDERICE.

The above offer is not good in Terento or Montreal and uburbs. Special arrangements are made for these districts.

Farm for Sale By PHILP & BEATON, WHITEVALE, ONTARIO.

WHILEVALE, ONTAKIO, 225 acres, Township of Markham, County of York, being Kinnellar Stock Farm, the property of Mr, John Isiaa, the well-known stock breeder and im-porter, 194 miles from Markham Village, G. T. R., where are good public and high schools, churches, banks, mills, etc.; 294 miles from creamery at Locust Hill, C. P. R.; 21 miles from Toronto. Rich data loam i clean, kych, free from stumps and stones, and mostly underdrained. Four good wells, two of which are equipped with windmills. Cistern, Well fenced. One acres of bearing orchard, about 29 years playted best variaties. Splendid brick house, 2 stories, containing H rooms. Bank barn, 50 x 95, with has must stabling for 9 houses and 40, attle, root cillar and loss stalls. Large piggery, sheep pen-ch vig mease, emplement house helpouse and she Budding as m excellent condition and repair. Very

PHILP & BEATON. Real estate Brokers, Whitevale, Ont.

When Writing Mention The Advocate

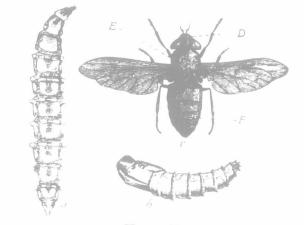
St. Jacob's, Ont.

Queer Things.

Last day you learned that maggets, or things that you have often called skin diseases. Write for free consulta worms," may not be called worms at tion and booklet.

a shabby hat or slovenly shoes, yet who face that is anything but fair to look upon, a complexion spotted, blotched, freckled or discolored, and very often disfigured with moles, ruptured veins, pockmarks, or that very masculine disfigure

If anything is wrong with your complexion, your hair, scalp, hands, feet or skin, call on or write the Hiscott Dermatological Instutute, Hiscott Building. 61 College street, Teronto. A spe cialty is made of the home treatment of





\$ 5.00 and under 3c. Over 30.00 to 50.00.....15C.

Money sent by TELEGRAPH AND CABLE.

Issued in all stations of the Canadian Pacific Railway Co.

SHORTHORN BULL

A good one in every way and carried off the honors in calf class at b Winter Eair, Sire Martha's Last (75482). Watthe 9th (38169), imp. Price and particu-per appleation. A QUICK sale will buy him

S. M. PFARCE, IONA, ONTARIO. FOR SALE: TWO GOOD YOUNG Shorthorn Bulls

JAS RUSSELL RICHMOND HILL, ONTARIO.



lief from hatiks-Me





THE FARMER'S ADVOCATE

Current Events

Earl Grey has been summoned to or 80 lights for 1 hour. England.

Captain C. S. Rolls, on June 2nd, crossed the English Channel twice in an aeroplane. He is the first Englishman to accomplish the feat. * *

Captain R. F. Scott, in command of the Britisn Antarctic expedition. set sail from England on June 1st, in the Terra Nova. He hopes to ar-rive at the South Pole in December,

Anonymous letters have been sent ing the Ministers that an anti-dynastic revolution is pending in China. and advising the diplomats to take no side with the Manchus, to which * *

The South African Act of Union came into effect on May 31st, when Lord Gladstone was sworn in as Governor-General; and the Premier, General Botha, with the Cabinet which he had chosen impartially from both Boers and English, took the both of office. Lord Gladstone, who, prior to his acceptance of a peerage, was known as Hon, Herbert Gladstone, is a son of the former Premier of England, Hon. W. E. Gladstone.

Lighting the Country Home.

Ten years ago, it was customary for the man who was showing his country home to his friend from the city, to say, apologetically: "Of course, we haven't Who comes with Summer to this earth, the conveniences here that you have in And owes to June her day of birth, the city, but you can't expect to have With ring of Agate on her hand, everything you want when you live so far away from the sity." In recent years, however, modern progress and invention have given more serious attention to the home in the small town, and there is a growing disposition on the part of the man who dwells "far from the madding crowd" to insist on just as much comfort as his city brother. It is now no uncommon occurrence to find a country home equipped with bathrooms, hot and cold running water, and electric Wear a Moonstone, or for thee lights in every room. For lighting country homes, several plans have been devised. but the most modern and successful is the electric-lighting plant illustrated be-

times, whether the engine is running or not. When fully charged, the storage Lattery will run 9 lights for 8 hours, 13 lights for 5 hours, 18 lights for 3 hours, The outfit is easily cared for, is dur-

able and efficient, and occupies very small space, and is proving wonderfully popular for high-class country residences and farms. It is being sold in Canada by the Canadian Fairbanks Co., Limited.

The Language of Gems.

JANUARY-THE GARNET. By her who in this month is born, No gem save Garnet should be worn; It will ensure her constancy, True friendship and fidelity.

FEBRUARY-THE AMETHYST. The February-born will find Sincerity and peace of mind, Free from passion and from care If they the Amethyst will wear.

MARCH-THE BLOODSTONE. Who in this world of ours their eyes In March first open shall be wise In days of peril firm and brave And wear a Bloodstone to their grave.

APRIL - THE DIAMOND OR WHITE TOPAZ.

She who from April dates her years, Diamond should wear, lest bitter tears For vain repentance flow; this stone Emblem of innocence is known.

MAY-THE EMERALD.

Who first beholds the light of day In Spring's sweet flowery month of May, And wears an Emerald all her life, Shall be a loved and happy wife.

JUNE-THE AGATE.

Can health, wealth, and long life command.

JULY-THE RUBY.

The Glowing Ruby should adorn Those who in warm July are born; Then will they be exempt and free From love's doubts and anxiety.

AUGUST-THE MOONSTONE.

No conjugal felicity; The August-born without this stone,

'Tis said, must live unloved, alone.

SEPTEMBER-THE SAPPHIRE

THE HELP THE FARMER LONGS FOR



IS SUPPLIED BY A PETER HAMILTON MOWER

Because

It will cut ALL the grass, whatever its condition or the condition of the surface of the ground. It is exceptionally light in draft. It can be stopped and started in the heaviest clay. The pull is direct from the whiffletrees to the main shoe on the cutter bar, thus eliminating side draft. The tilt lever here late of many and matter that here are all acuimed with Paller has lots of range of movement. The bearings are all equipped with Roller Bearings or Removable Bushings. The FOOT LIFT is convenient, easily operated, and is balanced by a lift spring. The GEARS are in perfect mesh and have lots of power.

The Cutter Bar

is flexible. Will cut close at any angle. Is made of heavy steel, sufficiently strong to prevent sagging, and is supplied with steel wear plates which, when worn, can be replaced, thus giving the new wearing surface for the knife bar.

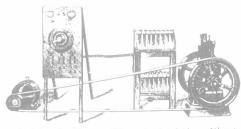
The Pieman is long and has a direct and easy stroke, and is well protected by the drag bar from stones, etc.

Before buying a mower be sure and see the agent, and find out what a good proposition can be offered by

The Peter Hamilton Co., Limited, PETERBOROUGH, ONT.



965



Fairbanks-Morse Electric Lighting Plant for Residence or Factory.

This outfit will operate 50 15-watt. 12-C. P. Tungsten lamps, as steadily and reliably as a city plant. It offers a relief from the dirt, danger and unsanitary condition arising from eld methods of illumination, and gives an economical light that is both safe, convenient and healthful. In fact, there is no substitute for the soft, white light diffused by for operating a pumping plant or other machinery. The engine operates on gas or gasoline. The outfit includes a Fair-banks-Morse Special Gasoline Engine and lamps and Sockets. Everything is fure obtained anywhere. The Dynamo will her early days to seek temporary em-perate 50 15-watt Tungsten lamps for a ployment as a housemaid, or laundress, el cost of five cents per hour with or governess, and then supply the press asoline at ten cents per gallon. This with an amusing story of her experiences. assured a generatine is the street that he use his lights. The dyname can be fun-uting the hours when the most light is reded, and the extra power constant up transferred to an excitor as a patient suf-the storage battery. This arranges is good the children to himself, made ent-makes the light of the book all his notes collected to apy, got together

0.

VG

ted.

FUJI MICRO

A maiden born when Autumn leaves Are rustling in September's breeze, A Sapphire on her brow should bind-'Twill cure diseases of the mind.

OCTOBER-THE OPAL.

October's child is born for woe, And life's vicissitudes must know But lay the Opal on her breast, And hope will lull those woes to rest.

NOVEMBER-THE TOPAZ.

Who first comes to this world below With drear November's fog and snow Should prize the Topaz's golden hue, Emblem of friends and lover true.

If cold December gave you birth. The month of snow, and ice, and mirth, Place on your hand a Turquoise blue. Success will crown whate'er you do.

Journalistic Enterprise.

Miss Elizabeth Banks-whose "Autoof the most human, delightful books I have ever read Miss Banks was wont in certainly very cheap, con-iderably χ Pars courselist, plagarizing the idea, assured a condarine in the street that he

material for an admirable and sensational article. And then, like Sterne's starling, he wanted to get out.

Thereupon the trouble began. He requested to be brought before the medical board of examiners, to whom he gracefully explained the situation, but these redited him with a new delusion. The unfortunate man was kept under the is safe to assume that this particular closest watch and restraint, but at last journalist will avoid madhouses in future, induced one of the nurses to convey news -[The King, in Saturday Night.

of his dilemma to his paper. His tribulations, however, are not yet over, for the doctors have refused to accept the explanations offered, and certify unanimously that the man is a dangerous lunatic ! Doctors are tenacious persons, and have the poorest appreciation of a joke. A special commission has been appointed to investigate the case; but it -|The King, in Saturday Night.



Condensed advertisements will be inserted under Condensed advertisements will be inserted under this heading at two cents per word each inser-tion. Each initial counts for one word, and figures for two words. Names and addresses are counted. Cash must always accompany the order for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our advertising columns. No advertisement in-serted for less than 30 cents.

B UFF Orpington eggs that hatch; nine chicks guaranteed. Four special pens, \$3 setting. Splendid utility stock, extra heavy layers, \$1 setting. Illustrated catalogue free. Hugh A. Scott, Oaledonia, Ont.

G REAT REDUCTION-Famous Pride of On-tario strain of Rose-comb Rhode Island Reds and White Wyandottes, are prizewinners. Record-breaking layers, large, healthy, vigorous; illustrated circular free. Eggs, special reduc-tion price, only 75 cents per 15. We guaran-tee satisfaction. Robert Smith, Colinville, Ontario. Ontario

SINGLE-COMB BROWN LEGHORNS-Twenty Single-comb Black Minorcas, thirteen eggs, one dollar. Isaac Reed, Ardtrea, Ontario.

S. C. W. LEGHORNS-Prizewinning and great laying stock. Eggs, \$1.00 per 15. A hatch guaranteed. Geo. D. Fletcher, Binkham P.O. Ontario

TO CLEAR AT A BARGAIN-First-prize 1906 Toronto pullet, second and third prize 1907 Toronto pullets, third-prize London pullet and two good yearling hens. The first ten dollars takes this nice bunch of six. Also, six good Orpington yearling hens; five dollars. H. Weston Parry, Princeton, Ontario.

WHITE ROCK EGGS-Good laying strain, \$1.00 per setting. Highworth Poultry-yards, London, Ontario.

WANTED-A few private farmers to ship me Poultry, Eggs, Dairy Butter, Syrup, and all other farm produce. Will pay highest market price. W. J. Falle, Prince Albert Ave... Westmount, Montreal.

SPRING BANK FARM Offers S.-C. Brown Leghorn prizewinning strain. Satisfaction guaranteed Wm. Barnet & Sons, Fergus P. O., Ont.



Advertisements will be inserted under this heading, such as Farm Properties, Help and Situations Wanted, and Pet Stock. TERMS-Three cents per word each insertion. Each initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order. No advertisement inserted for less than 50 cents.

R OR SALE-Iron, Pipe, Pulleys, Belting, Rails, Chain, Wire Fencing, Iron Posts, etc.; all sizes very cheap. Send for list, stating what you need. The Imperial Waste & Metal Co., Queen St., Montreal.

SEED CORN-\$1.00 per bushel in three vari eties. LEAMING, PRIDE OF NORTH SOUTHERN SWEET: BAGS, 25c. each. CALE DONIA MILLING CO., CALEDONIA, ONT.

THE FARMER'S ADVOCATE.

When Old Age Comes.

By Burges Johnson.

If God grant me old age

I would see some things finished, some outworn; Some stone prepared for builders yet

unborn Nor would I be the sated, weary sage

Who sees no strange new wonder in each morn.

And with me there on what men call the shelf

Crowd memories from which I cull the best,-

And live old strifes, old kisses, some old jest ;

For if I be no burden to myself I shall be less a burden to the rest.

If God grant you old age.

I'll love the record writ in whitened hair.

Ill read each wrinkle wrought by patient care,

As oft as one would scan a treasured page,

Knowing by heart each sentence graven there. I'd have you know life's evil and life's

good.

And gaze out calmly, sweetly on it all-Serene with hope, whatever may befall; As tho' a love-strong spirit ever stood With arm about you, waiting any call.

If God grant us old age,

I'd have us very lenient toward our kind,

Letting our waning senses first grow blind Foward sins that youthful zealots can

engage,

While we hug closer all the good we find.

I'd have us worldly foolish, heaven wise, Each lending each frail succor to withstand.

Ungrudging, ev'ry mortal day's demand; While fear-fed lovers gaze in our old eyes, And go forth bold and glad and hand

in hand. -Harper's Magazine.

More Than Once.

If at first you do succeed,

Try again ! Life is more than just one deed ;

Try again ! Never stop with what you've done ; More remains than you have won ; Full content's vouchsafed to none Try again !

If you've won on lower plane, Try again ! Life is more than one campaign

Try again

tensive library, which the lad might ful visit, "patting with both hands use at will; in the second, she was his books, affectionately, like a passionately fond of the theatre, and child." took him to see many plays. As a consequence, his poetical temperament was encouraged, and it is not surprising to find that, at a very early age, he had decided to become a writer of dramas.

In 1788 he was sent to the Westminster school, whence, after four years, he was expelled for having written an article against flogging for the school paper. During this period he does not appear to have greatly distinguished himself as a student; he had, however, spent much time on old books of romance and legends, and had been greatly impressed by Spencer, Tasso, and Gibbon's "Decline and Fall of the Roman Empire." The age, too, was one for the breeding of poets. was the time of Washington, of the fall of the Bastile, of the great revolutionary spirit which had sent the "Liberty, Equality, Fraternity !" to the hearts of many a young Englishman, as well as to those of the surging masses of France, and which in England, removed from the scenes of actual conflict, found expression through the burning pens of those who might wield no stronger weapon.

After leaving Westminster, Southey was enabled, through the generosity of an uncle, to go to Oxford, which he never liked, the only event of his stay there which seems to have made any impression on him being his acquaintance with the works of the old " 1 carried philosopher, Epictetus. Epictetus in my pocket," he wrote, "till my very heart was engrained with it." During this period, however, he wrote some of his shorter poems, and, with Coleridge, formed a wonderful plan to go to America, the land of freedom, to found there an Utopian colony on the banks of the Susquehanna. The two were to be joined by another young friend, Lovell, and were to marry sisters of Lovell's wife, Martha and Edith Fricker.

Events, however, followed more quickly than the young poets had calculated. Miss Tyler found out about Miss Fricker, and ordered Southey from her house. In desperation for want of money, he published his "Joan of Arc," and the proceeds from this proving inadequate, was glad enough to accept the invitation of an uncle to spend six months with Before going he him at Lisbon. secretly married his Edith, and, on his return, attempted to make some taking up the study of law, continuing, meanwhile, to write articles for History of Brazil." Finding that he could make living by his pen, he took his wife, in 1803, to Keswick, in the Lake Country, where, with Coleridge, he entered upon the career of literary work which he pursued for the rest of his life. haps, by reason of his indefatigable industry, for his talents were not, in poetry, at least, of the most bril-liant order. In 1813 he was appointed Poet Laureate; in 1820 he was given the degree of LL. D. by never sat in the House; in 1835 he was offered, and declined, knighthood, and was given, instead, by Sir Robert Peel, an annual pension of £360. During his later years, bitter troubles came to him. His favorite in 1835, his wife also passed away never recovered, although two years

FOUNDED 1866

He died in 1843, leaving behind him the record of a life of unusual purity sympathy and charity, for he had lived, as far as man could, the ideal he taught in his books. Out of the fifty books and innumerable magazine articles which he wrote, he is, perhaps, best remembered by a few of his shorter poems, "The Battle of Blenheim," "The Holly Tree," and others, and by his fine biography, "The Life of Nelson," which holds its place among the masterpieces of English literature. The most important of his other works are, beside those already mentioned, " Madoc," " The Curse of Kehama," "Lives of Wes-ley and Bunyan," "History of the Peninsular War," and a "Naval History."

John Stuart Mill.

John Stuart Mill was born in London, May 20th, 1806, the eldest son of James Mill, Head Examiner of the East India House, philosopher author of the "History of British India" and other works. "A re-markable son of a remarkable father." it has been said of him; yet the younger Mill was ostensibly the more lovable character of the two, less the stoic, more filled with the " milk of human kindness," and this, in spite of the fact that he was the victim of as strange a system of education as was ever experimented up on a human being.

Until he was almost grown, John Stuart Mill was, in fact, the pupil of his most brilliantly-educated father. At three years of age he was set to learn the Greek alphabet; at eight he began Latin, and was able to read a number of Greek prose authors before his twelfth year, he was fa miliar with Virgil, Horace, Livy, Sallust, Homer, Demothenes and Aristotle's Rhetoric, in addition to volumes of history; Hume and Gibbon, and, for lighter literature, Arabian Nights and Don Quixote. In addition, he was expected to teach his younger brothers and sisters, and to spend his time for exercise in walking with his father, learning, by conversation, all the way.

At twelve he began Logic and Political Economy, became enamoured of treatises on chemistry, and was given constant exercise in "dissecting bad arguments and finding in what part the fallacy lay." Indeed, in all things he was thrown upon his thinking," he says, "I never was But he had no childhood. He was kept away from other boys, and knew nothing of the physical education which comes of spontaneous play. 'l never was a boy,'' he said, many years afterwards, giving us a glimpse into that pitifully solitary, stilthood time of early youth. ter to let Nature have her own way. Stranger than all, he was taught less of religion than the veriest " I grew up in a negative state with regard to religious belief, he says. And, indeed, during his whole life, Mill passed for a freethinker, although, as time went on. there were evidences that he did not wholly repudiate religion, but only what seemed to him the popular but mistaken conception of it, as exemplified in the teachings of the time. "Think," he used to say, " of a be-ing who would make a Hell-who would create the human race with the infallible fore knowledge, and therefore with the intention that the great majority of them were to be con-signed to horrible and everlasting torment. The time, I believe, is drawing near when this dreadful con

pres

tain

the

stu

requ

he

whie

thar

of a

H

for

this

happ

happ

folle

VANCOUVER ISLAND offers sunshiny, mild climate; good profits for ambitious men with small capital in business, professions, fruit-growing, poultry, farming, manufacturing, lands, timber, mining, railroads, navigation, fisheries, new towns; no thunder storms; no mosquitoes; no malaria. For authentic infor-mation, free booklets, write Vancouver Island Development League, Room A, 102 Broughton St., Victoria, B.C.

ANTED-Persons to grow Mushrooms for us. Waste space in cellars, gardens and outhouses can be made yield \$15 to \$25 per week. Mushroom beds bear every month in the year. Illustrated booklet free. Mont-real Supply Co., Montreal.

WE HAVE FARMS of all sizes and suitable for all kinds of farming county in Western Ontario. Send for our ca The Western Real-estate Exchange, Ltd.

ANU FOR SALE. Union Stock - Yards, Toronto.

Hegan I think Miss de Blank is ver

toune. She said yes, I could see it from the top of the high school building, and

Send your guidons to the fore; Strive to seize one standard more Still ungained are palms galore Try again !

If at first you do succeed, Try again ' For inture harvest sow the seed ; Try again !

Rise with sacred discontent Realize that life is lent On highest searches to be spent; Try again !

-Our Young Folks.

The Roundabout Club

Biographical Sketches. Robert Southey.

Robert Southey was born at Bristol, England, on the 19th of August. 1774. His father was a small linendraper of straitened circumstances, but, by the generosity of rich relachance to obtain an education. He a Miss Tyler, with whom he lived for some years, at Bath. Here the life of age. Finally his name gave way



him

ity.

had

dea) the

iga-

is, v of of

and bhy, s its

ing-

iose The

Ves

His-

son the

nilk

ohn

ead

nd

nd

is

n,

it 🚺

ant

THE FARMER'S ADVOCATE.

pressed with the beauty of the mountain scenery, and found time, along with his advanced study of logic and the higher mathematics, to make some acquaintance with French literature.

On his return he continued his studies under his father, being now required to write out a complete abstract of various books, accompanied by remarks of his own : and in 1822 he started the so-called Utilitarian Society, and somewhat later the Speculative Debating Society, to which a knot of thinkers much older than he were attracted for purposes of argumentation and study.

In 1823 he also obtained an appointment in the East India House, and about the same time he began to come into prominence as a writer for various magazines, chiefly on subjects of political economy.

He had started out confident in agreement with the theories of the Benthamite school, which made much of the creed that happiness should be the chief quest in life, and but little or nothing of the duties of service; but such nutriment was not sufficient for a soul really capable of deep feeling, although long, apparently, deadened by an enforced Stoicism, and by too continually analytic habits of mind. He describes his condition at this time as one of "dry, heavy dejection," a state described, as it seemed to him, in Coleridge's Ode. Then, with the reading of Marmontel's Memoires, a gleam of light came. I was moved to tears," he says. "I was no longer hopeless. I was not a stock or a stone." And finally the conclusion forced itself on himhis final separation from the Benthamites-that, "Those only are happy who have their minds fixed on some object other than their own happiness; on the happiness of others, on the improvement of mankind, even on some art or pursuit, followed not as a means, but as itself an ideal end.

Henceforth Mill was consecrated anew to the service of mankind. He was to make mistakes. He was to meur fierce criticism, as well as enthusiastic applause. He was to change divers opinions from time to time, as every man must who is growing, instead of standing still; but he was to prove himself one of the public torces, one of the most original thinkers of his time.

Ask yourself whether you are he said, " and you ce The only chance is you cease treat, not happiness, but some end Let your self-consciousness, your scrutiny, your self-interrogation exhaust themselves on that; and if otherwise fortunately circumstanced you will inhale happiness with the air you breathe, without dwelling on at or thinking about it. . . . This theory now became the basis of my it. It is the best theory for the great majority of mankind." Henceforth, Mill was to constitute mimself " a theoretical reformer of the opinions and institutions of his time. He was to devote himself to behalf of the working people, of the Irish peasantry, of women's suffrage. of reform in the law. Above all things, he was to become an exhorter to the development of individuality. I saw." he said, " that, though our character is formed by circumstances, our own desires can do much to shape those circumstances, and that what is really inspiriting and ennobling in the



Good Fences are a farm investment that bring the most returns for the least money

A RE you losing money? If you had a hole in your pocket, out of which you were losing hard-earned dollars, would you sew it up? The time has arrived when a fence around the farm is as much a necessity as a cultivator.

If you are feeding 60c or 70c corn to hogs in a dry lot, allowing good, green feed to go to waste on other portions of your farm, you have a hole in your pocket, out of which

you are losing good, hard-earned dollars. Sew it up. Look up an American Fence dealer and let him show you how a few dollars invested in fence will yield a big big rate of interest on feed saved.

American Fence is made of hard, stiff steel. It is made of a quality of wire drawn expressly for woven-wire-fence purposes. Galvanized by latest improved process—the best that the skill and experience of years has taught. Built on the elastic, hinged-joint (patented) principle, which effectually protects the stay or upright wires from breaking under hard usage.

The real test of a fence is the service you get out of it. Test, judge and compare American Fence under any and all conditions, and you will find that the steel, the structure and the galvanizing are equal in durability, strength and efficiency to the hardest usage.

The Canadian Steel & Wire Co., Limited HAMILTON, ONT. WINNIPEG, MAN.

NOTE. —Dealers everywhere. See the one in your town and have him show the different designs and give prices. Also get from him a booklet, "How to Build a Cheap Concrete Fence Post," furnished free for the asking.



For Effective Spraying

Get the best Spray Chemicals— Beat the bugs to the foliage— Be thorough.

967

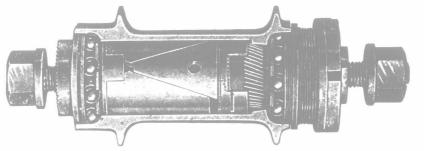
The best spray to use against Codling Moths, Potato Bugs and all leaf-eating insects is

Individuality, he constitute the massbe encouraged by obtaining the masses, and he never correct is advocate a better representation for the workingbeople in Parliament than they then were given. In later cours, he became to some degree an advocate of Socialism, but not of that socialism which would submerge the individual in the machinery of government. others combined.

One reason for the "Hercules" popularity is that it is lighter in weight than any other. The "Hercules" is an armless brake, a great feature in any bicycle. A child can take it apart and reassemble it.

Positive in action and easy running when released. It wears well because it is solidly-simple, and there are no intricate parts to get out of place or become damaged in the wear.

THE HERCULES IS AS SMALL AS THE ORDINARY HUB OF A BICYCLE.



WRITE US FOR PARTICULARS AND CATALOGUES. Canada Cycle & Motor Co., Ltd., Toronto

POLES OF STERLING QUALITY Michigan White Cedar W. C. STERLING & SON COMPANY Oldest Cedar Pole Firm in Business Producers for 30 Years 1880 MONROE, MICHIGAN 1910

Please Mention The Advocate

"VANCO" Lead Arsenate

It does not settle in the spray tank as does Paris Green.

It sticks well, and will often stand one or two rains, saving the time and expense of another spraying.

spraying. "VANCO" Lead Arsenate never burns the foliage, as Paris Green or improperly prepared Lead Arsenate is liable to do. Because "VANCO" Lead Arsen-

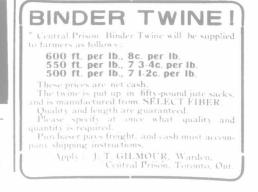
Because "VANCO" Lead Arsenate is easily seen on the foliage, spraying can be done much more thoroughly when it is used.

Inc. to 13c. per lb. according to quantity. Write for our Booklet on spraying. "VANCO" Spray Chemicals are

"VANCO" Spray Chemicals are High in Quality and Lowest in Price. Made in Canada, by practical men, aud offered on their record.

Club your orders and save on freight. 16

Chemical Laboratories Limited 126-136 Van Horne Street, Toronto.





FOUNDED 1866

15

BIG

PROFITS

0-

JUNE

Ins

aga

TI

'Ph

6

CRU

CLI

We l size, style ported an inspection

R. N



Fleming's

Spavin and Ringbone Paste Use it under our guarantee — your meansy refunded if it dessn't make the herse go sound. Most cases cured by a single db-minute application — occasionally two re-quired. Cures Bone Spavin, Ringbone and Sidebone, new and old cases alike. Write for detailed information and a free copy of Fleming's Vest-Pocket

Veterinary Adviser Ninety-six pages, durably bound, indexed and illustrated. Covers over one-hundred veterinary subjects. Read this book before you kreat any kind of lameness in horses. FLEMING BROS., Chemists 75 Church St., Toronto, Ontario

KENDALLS SPAVI CURE To Bring Him Back to the "High-Stepping" REMED Class USED ALI WORLD For Spavin, Curb, Splint, Ringbone, Soft Bunches, All Lameness Horse dealers have made thousands of dollars by buying Lame, Spavined Horses, curing them with Kendall's Spavin Cure, and then selling the sound animals at a handsome profit. You can do the same with your own horses. Here is one man who saved his horse and his money by using Kendall's. Oak Bay Mills, Que., Dec. 15th, 1909

used Kendall's Spavin Cure with good success, on my horse. I found that it cures quickly and well'. Yours truly, ROY HARPER.

In 1830 he first met Mrs. Taylor, the lady whom, from that day, he worshipped with an adoration which has placed his love-story among the Stories of Great Lovers" of the world. With her he studied botany; to her he submitted his essays and his books; to her modifications he submitted; to her he confided his plans for the betterment of humanity. We looked forward to a time when society will no longer be divided into the idle and the industrious," he says, "when the rule that they who do not work shall not eat, will be applied, not to paupers only, but impartially to all; when the division of the produce of labor, instead of depending, as in so great a degree it now does, on the accident of birth, will be made by concert on an acknowledged principle of justice; and when it will no longer either be, or be thought to be, impossible for human beings to exert themselves strenuously in procuring benefits which are not exclusively their own, but to be shared with the society they belong to. The social problem of the future we considered to be, how to unite the greatest individual liberty of action with a common ownership in the raw material of the globe, and an equal participation of all in the benefits of combined labor.

Meanwhile, people looked askance at the close friendship; Mill's relatives threw him off on account of it: the dull, stupid husband of the lady finally aroused himself to demand a separation; but Mill's devotion never faltered. Twenty years after his first meeting with his "almost infallible counsellor," two years after the death of her husband, he married her

Mill's passion for Mrs. Taylor has never been understood, many as have essayed the task of diagnosing it She was, doubtlessly, a clever woman, but to others who knew her, the extravagant encomiums which Mill bestowed upon her, both in his books and in conversation, verged closely on the ludicrous. She was "nothing like what John took her to be, said his brother George. Nevertheless, she probably exercised some small modicum of the influence he has ascribed to her, over this famous man. As critic, she evidently had some skill; she suggested his essay on "The Subjugation of Women," and was, as he proudly proclaimed, his collaborator in writing the vol-ume on "Liberty." Whether she exercised any real influence in the composition of his most famous orke his "Logic" his "Principles of Political Economy," "Thoughts on Parliamentary Reform," "Repre-sentative Government," books on Sir William Hamilton" and 'Auguste Comte,'' must, notwithstanding his avowals, be open to question. After his marriage to Mrs. Taylor, the family-she had one daughterremoved to Avignon, where less than eight years later she died. In 1865 he was made Member of the House of Commons, where he seems to have won commendation from Gladstone and others, as an advanced Liberal but he never ceased to make Avignon his home, in order that he might be near the grave of her whom he had On the 5th of May, 1873, he took a fifteen-mile walk in search of botanical specimens. Three days later he died, with the words on his lips, "My work is done." He was many a stranger stops to look at the graves, side by side, and to read Mill's fame rests chiefly upon his 'Logic,'''' Political Economy,'' and 'Representative Government.'' He advocated much that found issue in action : some of his recommendations have never been acted upon. But at all events, as John Morley said of him, " He did not think for men, but he made them think for themselves." In so far, not easily can his influence over the political conditions of the British Empire be easily computed.



THE MODERN CANNER CO., GANADIAN BRANCH: ST. JACOB'S, ONT.

sizes-100, 200, 400 tins an hour-\$30, \$60, \$90. Send for

booklet No. 4 C. Free, A post card brings it.

\$1. a bottle-6 for \$5. A copy of our book-Treatise On The Horse "-free at dealers or from us.

Dr. B. J. Kendall Co. - - Enosburg Falls, Vt.

GRAND TRUNK SYSTEM **HOMESEEKERS' EXCURSIONS** WESTERN CANADA

Through the metropolis of Chicago, thence via Duluth and Fort Frances, or through Chicago and the twin cities of Minneapolis and St. Paul.

May 31, June 14 and 28 Via Sarnia and Northern Navigation Company Steamer leaves Sarnia 3.30 p.m.,

May 30, June 15 and 29

WINNIPEG AND RETURN - \$32.00 EDMONTON AND RETURN - \$42.50

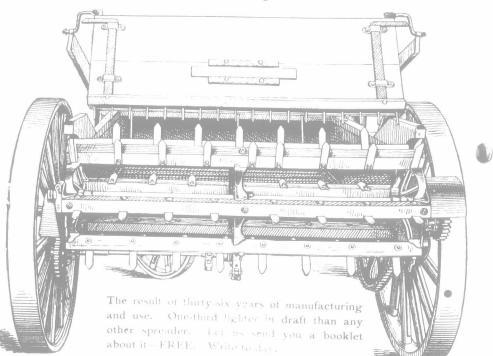
Proportionate rates to other Western points Tickets good for 60 days.

Secure tickets and full information from Grand Trunk Agents.



The Kemp Manure Spreader EQUIPPED WITH

The Reversible, Self-Sharpening, Graded, Flat-Tooth Cylinder.



W. I. Kemp Company, Ltd., Stratford, Ont.



IMPO ln my sta Hackney



Ormst



CLY



SMIT Black Ive Dunure S COLUME



 \bigcirc

THE FARMER'S ADVOCATE.

OF INTEREST TO FARMERS **The General Animals Insurance Co'y of Canada**

Insure stallions, and also make a specialty of insuring entire colts against risk of death during and after castration.

All kinds of live stock insured.

For particulars apply to :

The General Animals Insurance Co., Limited,

25 TORONTO STREET, TORONTO.

'Phone M. 4154.

J. D. Reesor, Manager Western Ontario.



The services of any one of the following high-class stallions can be secured for approved mares by applying to the manager: **Mograzia**, Champion Standard-bred stallion; **Bingen Pilot**, by Bingen. 2.06/4; **Jim Tod**, by Tod, 2.14/4, also sire of Kentucky Tod; **Crayke Mikado**, Hackney stallion, Champion at Chicago International, and the Canadian National, Toronto; **Baron Howes**, Champion Clydesdale stallion, considered by expert judges to be the best Clydesdale stallion in America. For all particulars, apply to

JAS. WETHERILL, Manager, Galt, Ont.

CLYDESDALES AND FRENCH COACHERS

We have still on hand a few choice Clydesdale Stallions all young that for size, style and quality will stand inspection. We have also a few Clyde fillies imported and Canadian-bred, and two French Coach stallions. Correspondence and inspection invited. Our prices are easy and terms to suit. 'Phone connection.

R. NESS & SON, HOWICK, QUEBEC.



Veterinary. LAME COLT.

QUESTIONS AND ANSWERS.

Yearing celt went lame. An examination revealed the foot very hard, and a hole extending from the sole half-way up the foot. I removed the hoof as far as the hole, but the colt is still lame and foot hard, and does not grow J. S. McA

Ans .- Examine the hoof carefully, and if there be any pus give it free vent. I do not think the hole you mention causes lameness, as you do not mention the presence of pus. If pus were present here, it no doubt caused the lameness. There may be a ringbone that is not yet visible, but causes the lameness and hardness of the hoof. If possible, locate the trouble. If an abserss, apply warm poultices until lameness ceases, and then turn on damp pasture ground. If a ringbone is present, blister around the coronet every month during the summer. I think it would be wise to have your veterinarian examine this case.

ENLARGED JOINT-LUMP JAW. 1. Mare injured her hind fetlock during the winter, and it swelled badly. We treated it, and the lameness disappeared, but the joint is still enlarged. She has scratches now. Would it be advisable to breed her ?

2. Give nature and symptoms of lump jaw. J. H. B.

Ans.-1. Give her a purgative of 8 drams aloes and 2 drams ginger. Apply hot linseed-meal poultices to the scratches for two days and nights. Then wash thoroughly, and rub with flannel cloths until dry. Do not wash again, but apply the following lotion, 3 times daily, until healed, viz.: 1 ounce each of ace-tate of lead and sulphate of zinc to a pint of water. After this, rub the enlarged joint well, once daily, with the following liniment, viz.: 4 drams each of iodine and iodide of potassium, and 4 ounces each of alcohol and glycerine. It will require a long time to reduce the enlargement. It would be all right to breed her after the operation of the purgative

2. Lump jaw is caused by a fungus taken on the food and gaining the circulation through an abrasion on tongue, lips, cheeks, etc. It causes the formation of a tumor, usually in the neighborhood of the head, but may be in other parts or on an internal organ. In some cases the tumors are loose in the flesh, and in others bone is involved. The jaw bone, either upper or lower, is often involved. It becomes porous and enlarged, and often the bone surrounding the roots of the teeth is involved, when he teeth will become loose and drop out. The animal in these cases cannot masticate, hence fails in condition, and, eventually, dies. In other cases the teeth are not affected. In some cases, matter forms, the abscess bursts, and may or may not heal readily; sometimes heals only to break out again. In some cases there is no eruption.



NOTICE TO HORSE IMPORTERS Geraid Powell, Commission Agent and Interpreter, **Nogent Le Rotrou**, France, will meet importers at any port in France or Belgium, and assist them to buy Perch-erons. Belgians, French Coach horses. All information about shipping, banking and pedigrees. Many years experience: best references; correspondence solicited

Peachblow Clydesdales

and Ayrshires!

W. F. YOUNG, P. D. F., 253 Temple St., Springfield, Mass. Canadian Agents: Lymans' Ltd., Montreal

druggist can supply and give refer-ence. Will tell you more if you write. Manufactured only by

ence. write,

969



My 1910 importation of Clydesdale stallions and fillies, and Hackney stallions and fillies, are now in my barns. One and two-year-old Clyde fillies of a character and quality never before excelled. My Hackney stud was never so strong in high-class animals. All are for sale and prices right. **ROBT. BEITH, BOWMANVILLE, ONT.**

IMPORTED CLYDESDALES AND HACKNEYS

In my stables at Ingersoll, Ont., I have always on hand Clydesdale stallions and fillies, and Hackney stallions, personally selected in Scotland for their high-class type, quality and breeding. Let me know your wants. **W. E. BUTLER, INGERSOLL, ONT.** W. E. BUTLER, INGERSOLL, ONT.



IMPORTED CLYDESDALE FILLIES

I have still on hand six Clydesdale fillies. They are big, smooth fillies, exceptionally well bred, and their underpinning is the kind Canadians like. I have only one stallion left, a right good one. My prices are as low as any man's in the business. Phone connection. GEO. G. STEWART, HOWICK, QUEBEC.

Ormsby Grange Stock Farm, Ormstown, P. Quebec. Importation and breeding of high-class Clydesdales a speciality. Special importations will be made for breeders at minimum cost. My **Duncan McEachran**.



Imported Clydesdales My new important tation of Clydesdales date stallions for

dale stallions for 1910 have arrived. They were selected to comply with the Canadian standard, combining size, style, quality and faultless underpinning with Scotland's richest blood. They will be priced right, and on terms to suit. C. W. BARBER, GATINEAU PT., QUEBEC.

CLYDESDALES, Imported and Canadian-bred. I have on hand 2 Imported Chelestate Scottage hand 2 Imported Clydesdale Stallions, one 4, the her 5 yrs. old; 2 Canadian-bred Clydesdale Stallions, one 2, the other 3 yrs. old; one rench Coach Stallion, 4 yrs. old; one Shire Stallion, and the noted Hackney Stallion, hocolate Jr. 1 will sell these horses cheap for quick sale. **T. D. Elliott, Bolton, Ort**.



CLYDESDALES AND HACKNEYS

We have still for sale several good Clydesdale Stallions; also our prizewinning Hackney stallion. Blanch Surprise, and a few good Clydesdale and Hackney mares. All of which will be sold on reasona JOHN A. BOAG & SON, Bayview Farm, Queensville, Ont.

SMITH & RICHARDSON'S CLYDESDALES. Black Ivory, Commodore, Royal Gretna, Pride of Newmills, Dunure Acknowledgment, Dunure Souter, Captain Vasey, Look Again, Baron Acme, and some younger ones, all sold, but a few good ones left yet, and at moderate prices. SMITH & RICHARDSON, COLUMBUS, ONT. Myrtle, C. P. R.: Brooklin, G. T. R. Phone.



We have for sale a few choice Clydesdale mares, imported and Canadian-bred; also Canadian-bred Clydesdale stallions. Hackney stallions and mares for sale always. I distance 'phone. 'Hodgkinson & Tisdale, Beaverton, Ont.' G.T.R. and C.N.R. Long-

Miscellaneous.

THREATENED WITH HEAVES. $1.\ I$ have a mare eleven years old which has a had cough, rattles some at nose; I think is threatened with heaves.

At times her breathing shows signs of heaves, but she does not wheeze at all; has coughed at different intervals for the past two years. Is there any cure? If not, is there anything to relieve?

2. Does formaldehyde, prepared for treating potatoes, and left standing in a barrel for two or three weeks, lose its YOUNG FARMER. strength ?

Ans.-1. Heaves, once established, cannot be cured, but the symptoms can be relieved to a considerable extent. Be careful not to overload the stomach with bulky food, and give grain in proportion to work done. Dampen all food given with lime water. Water before feeding, and not too liberally. Avoid working shortly after a meal. Raw linseed oil, given daily, in doses of one to three ounces on the feed, is also advised by

2. Little loss of strength need be feared if a dilute solution of formaldehyde be left standing in an open vessel, but it would be wiser to cover it closely, or, better still, to mix only as much at one time as is needed then.



Always on hand, stallions, colts, mares and fillies. The champion stallion, "Baron Howes" (13847), was purchased from this stud. Apply :

JOHN R. BEATTIE, Baurch Farm, Annan Scotland

For Sale: REGISTERED HACKNEY STALLION, COCK ROBIN. Three years old; 15½ hands; chestnut; hind feet white. Sire Commodore 3rd, imp., (6695), by Choc-olate. Jr. (4185). Dam Ada Adair (181), by Robin Adair 2nd, imp., (3907). For description, terms, etc.. address : G. W. CLEMONS, ST. GEORGE, ONT.

Imported Clydesdales Imported and Cana-dian-bred Clydesdale mares and fillies and young stallions, of most fashion-able breeding, up to a big size, with character and quality. Phone connection. ALEX. F. MGNIVEN, St. Thomas, Ont.

Please Remember to Mention "The Farmer's Advocate'' When Writing



FOUNDED 1866

JUNI QI

> RI Plea selling where Ans. use of of reg

> A h A tal and a 1. 1 2. only Onte Ans there part i veteri

from

incurr

A a They finds out th his sid his s ditch, depth owing feet le blastin Queb Ans. seem assist so une

ties c them bring able a

A (andlady. "Ain't it wonderful what some 3. No. animals can be trained to do ?"-Chicago work. News. and as R. H. REID & SONS, Props., Veterinary. John Purvis, Holyrood | Auctioneers. Savs good "Bronchitis." PINE RIVER. ONTARIO. as h PARTIAL PARALYSIS. Now Scotch Shorthorns A. Edward Meyer good Clydesdale mare could not rise a week some before she foaled. I called my vet erinarian, and he diagnosed it partial THE SYMPTOMS ARE At Toronto Exhibition this fall yearling bulls P. O. Box 378, Guelph. Ont. paralysis. I kept her in slings until sh Tightness across the Chest, Sharp foaled. I put her out on grass, but Breeds SCOTCH SHORTHORNS Exclusively We have 10 young bulls for same Write for breeding and prices. Pains and a Difficulty in Breathing, a she still is unable to rise without as Twelve of the most noted Scotch tribes have repre-sentatives in my herd. Herd bulls : Scottish Here (imp.) 55042 (90065) 295765 A. H. B.; Gloster sistance, but can walk after being lifted. Secretion of Thick Phlegm, at first white, (imp.) 55042 (90065) 295403 A. King 68703 288804 A. H. B. Ye sale. Long-distance phone in house John Miller, Brougham P. O., Ontarlo, The foal is nine days old and doing well. Young stock for but later of a greenish or yellowish color The mare eats well, but is getting thin Claremont Stn., C. P. R., 3 miles. coming from the bronchial tubes when W. H. S. CHOICE SCOTCH BULLS ooughing, especially the first thing in the Ans. Ans .- Your veterinarian was correct in return morning. FOR SALE. HERD-HEADING QUALITY. his diagnosis, and it would have been own-1 wise to have left her in his charge, and H. SMITH, R. R. 3, Hay, Huron Co., Ont. Bronchitis is generally the result of a Farm adjoins Exeter, on G. T. R treated her according to his instructions. cold caused by exposure to wet and refusal inclement weather and when neglected I would advise the administration of 2 HIGH - CLASS SHORTHORNS | Spring Valley Shorthorns show type, pure Scotch and Scotch-topped, sired by that sire of champions. Mildred's Royal, If you want to get an imported bull, or a want a show bull or heifer, write me. **GEO. GIER, Grand Valley P.O. and station,** If you want to get an imported bull, or a good Canadian-bred one to head your herd, be sure and write, or come and see them. Long-distance telephone. will become chronic. drams nux vomica, three times daily. If she can rise with a little assistance, it Chronic Bronchitis is one of the most will be better to leave her on grass, but general causes of Consumption. Cure the if she has to be lifted with slings, it will first symptoms of Bronchitis by the use be better to keep her in slings in a box of Dr. Wood's Norway Pine Syrup stall. Feed on grass, chopped outs and We = 1++++++ Miss Martha Bour-SALEM SHORTHORNS $A\,\mathrm{ssoci}$ Bronchitis + get, Little Pabos, Que., writes: "Last $(x) \stackrel{\text{\tiny f}}{\to} (x) \stackrel{\text{f}}{\to} (x) \stackrel{\text{f}}{\to$ + I have generally what you want in choice Shorthorns. Cured. + spring I was very poorly, had a bad cough, sick head-GOSSIP. Elora Station, G. T. R. and C. P. R. J. A. WATT, SALEM. REID & SON'S SHORTHORN SALE Shorthorns, Civdesdales and Oxford JOHN GARDHOUSE & SONS ache, could not fat; 8 orns: Several red bulls 10 months of ector, imp.; some with imp. dams; he Always have for sale a number of first-class **Short-horns**, **Shires** and **Lincolns**, of both sexes. Drop us a line, or better, come and see for yourself. Weston Sta.,G.T.R.&C.P.R. Long-distance 'phone in house. sleep, and was tired all the time. I con-June 15th is the date for the dispersion sulted two doctors, and both told me I sale of the well-bred Sha. 'horn herd of olds a R. H. Reid & Sons, Pine River, Bruce had bronchitis, and advised me to give up 346.5 Co., Ont., near Ripley Station, G. T. McFarlane & Ford, Dutton, Ont. teaching. I tried almost everything but HIGHFIELD P. O., ONTARIO. none of the medicines gave me any relief. R., where the morning and noon trains will be met. The herd comber twenty three females and eleven tulls, including One of my friends advised me to try Dr. VALLEY HOME SHORTHORNS AND BERKSHIRES Wood's Norway Pine Syrup. I had pull or heiler, come and see what we have, or if yo pedigree, we have them. For description of herd se scarcely taken the first bottle when I MEADOWVALE, ONT., P. O. AND STATION, C. P. R. began to get better and when I had taken the fourth bottle I felt as well as ever, my Three Shorthorn Bulls for Sale, Shorthorns and Leicesters. For sale oough had left me and I could sleep well. Show animals, choice breeding Prices reasonable. Stock bull, Benachie timps, Geo. D. Fletcher, Binkham P.O., Join States P.R. Unscience and enves of all ages, W.A. Douglas, Tuscarora, Ont., Caledonia Station. Dr. Wood's is the original Pine Syrup. It is put up in a yellow wrapper, three pine trees the trade mark, and the price tunity allouded for securing good bar 25 cents. There are many imitations of lurner "Dr. Wood's" so be sure you receive the Please Mention this Paper. genuine when you ask for it. of SI Manufactured only by The T. Milburn Os., Limited, Toronto, Ont.

r terming s Lump Jaw Cure and it remains today the standard treat-ment, with years of success back of it, known to be a cure and guaranteed to cure. Don't experiment with substitutes or imitations. Use it, no matter how old or bad the case or what else you may have tried-your money back if Fleming's Lump Jaw Cure ever fails. Our fair plan of selling, together with exhaustive information on Lump Jaw and its treatment, is given in Fleming's Vest-Pocket Veterinary Adviser Most complete veter inary book ever printed A owns a farm of three lots. She Most complete veterinary book ever printed to be given away. Durably bound, indexed and illustrated. Write us for a free copy. FLEMING BHOS., Obemists, 75 Church St., Toronto, Ontario The Maples Herefords **Canada's Greatest Show Herd** For sale: 6 young bulls and a number of young females, bred from imported and show stock. None better. Prices right.

W. H. HUNIER, Orangeville, Ont. P.O. & Sta. Aberdeen-Angus Cattle -Stock all ages and both sexes good strains, at reasonable prices. Apply to good strains, at reasonable prices. ANDREW DINSMORE, "Grape Grange" Farm Clarksburg, Ont.

The first remedy to cure Lump Jaw was

Fleming's Lump Jaw Cure

Balmedie Polled Angus and Oxford Down sheep — Offering bulls. Discriminating buyers will be pleased with my herd. Anything in the herd will be priced. Also ram and ewe lambs. T. B. Broadfoot, Fergus P. O. and Station. P. O. and Station.

FOR SALE: SOME NICE YOUNG **Aberdeen-Angus Bulls**

and some females of all ages. Also a first-class Clydesdale stallion. J. W. Burt, Coningsby, Ont.

ABERDEEN - ANGUS Will sell both sexes; fair prices. Come and see them before buying. Drumbo station.

WALTER HALL. Washington, Ont.

"More than five thousand elephants a year go to make our piano keys," marked the student boarder who had been reading the scientific notes in a patentmedicine almanac.

"For the land's sake "" exclaimed the



QUESTIONS AND ANSWERS Miscellaneous.

HAY CAPS.

How are cotton hay-caps made, and what size are they necessary to be?

Ans.-Buy 40-inch common cotton sheet ing at any dry-goods store and tear into squares. Do not hem, but simply fasten a 4- to 6-ounce weight to each corner.

SALE TO SON-IN-LAW

agrees to sell one of these to B, her sonin-law, for a certain amount, and gets the agreement drawn by a neighbor, B to pay most of the price in work if he wishes; but nothing was mentioned in the written agreement as to when payment should be made. There was no house on the lot, so B's wife stays with her mother, A, till B gets his house up which was not hastened, taking about two years to do so. B's wife helps with the housework while with her mother. although there was no need of her help Now B claims \$10 per month for the time his wife was there, and charges a high rate of wages for the work done by himself, he not having paid any cash at all. Now he has moved away to work a farm for another man. He rents the aforementioned farm to C, without saying anything about the matter to A, but telling C and others that he has the place paid for, while he has not given more than half the amount agreed upon 1. What can A do in the matter?

2. She still holds the deed. Can she claim the rent and take possession? 3. Can B claim wages for the time his wife stayed with her mother till he got the house built ?

Ans.-1. She might propose to bring an action against him for halance of price in order to get the matter disposed of that is, in the event of the parties being really unable to agree; and, if necessary she should bring such action.

2. Not without first taking the legal step suggested and continuing the litiga tion to the appropriate conclusion.





JUNE 9, 1910

OUESTIONS AND ANSWERS. Miscellaneous.

REGISTRATION OF BRAND.

Please tell me if a name of a brand in selling goods must be registered. If so, where, and the cost? I. T. Ans .- The brand need not be registered unless it is desired to protect it from use or infringement by others. The cost of registration is nominal. Apply to the Department of Agriculture, Ottawa.

A SICK HORSE.

A hires a horse from B for two weeks. A takes the horse home and works it, and after returning it to B it takes sick. 1. Is A responsible?

2. Can B compel A to pay doctoronly a verbal agreement being given at time of hiring ? READER. Ontario.

Ans.-1 and 2. It is possible that there may have been negligence on A's part such as to render him liable to B in damages, including the amount of the veterinary's bill, but it does not appear from the statement of case that he has incurred such liability.

LINE DITCHING.

A and B decides to dig a line ditch. They call on the ditch inspector, who finds that the fence is the line. He lays out the ditch, giving A the first half on his side of fence, and B the lower half on his side of fence. After completing ditch, it is found not to be of sufficient depth to drain the land on each side, owing to a ledge of rock about fifteen feet long in B's ditch, which will require blasting out. Will A be obliged to assist in this work? Quebec

Ans .- As the matter stands, it would seem that A is not legally bound to so assist B. But perhaps he ought to do so under the circumstances. If the parties cannot agree, it might be well for them to call in the inspector again to bring about, in a friendly way, a suitable arrangement of the matter.

HORSE TRADE.

A comes to B's house and asks B to trade horses. B has a colt too keen to work. A questions B about his horse, and asks him if he is good to work. A says before witness that his horse is good to work, and if he is not as good as he says for B to take him back. Now B considers that the horse is not good to work. The horse works at some things all right; at some things he don't. B takes the horse to draw his to the factory, and he nearly

THE FARMER'S ADVOCATE.



This ingenious and yet simple and easy-fitting construction makes a PORTER BROS., APPLEBY P.O., BURLINGTON STA. 'Phone. Shingle roof absolutely weather-tight. It prevents wind from driving rain or snow up and out of the top end of side GLENGOW lock, as so often happens with ordinary metal shingles. There is not even the smallest openannot he truthfully

971

ditches him twice. B takes back to A, and A refuses to take him back. Can B compel A to take the horse back ? B only kept the horse two

ns

20

Γ.

5

ν.

ort-

О.

ES

0.

\nd as,

ß

VS 🕔

Ans .- We think that B is entitled to return the animal to A, and to get his own horse Lack, or damages from A in the event of the latter's persisting in his

GOSSIP.

RECORD OF AYRSHIRE COWS AND

We have received from W. F. Stephen Secretary Canadian Ayrshire Breeders' Association, the following report of the record-of-performance test for 1909: To May 1st, 1910, 89 cows and heifers have registered in the test; 32 mature cows averaged 10,851 lis. milk and 401.80 lbs. of fat; 8 four-year-olds averaged 9,570 lbs. milk and 365.80 lbs. fat, 18 three-yearolds averaged 8.164 lbs. of milk and 346.5 lbs. fat; 37 two-year-olds averaged 7,056 lbs. of milk and 297.65 lbs. of fat. Highest record in mature-cow class, Annie Laurie 2nd -15588-. Lbs. milk, 15,134; lbs. fat, 598.4. Owner, E. Cohoon, Harrietsville, Ont.

Highest in four-year-old class, Molly -27600-, Lbs. milk, 11,268; lbs fat, 372,42. Owner, E. Cohoon.

dian Princess -20108-. 1.1.s. milk, 11. 377; lbs. fat, 521.91. Owner, A. S Turner, Ryckman's Corners. Ont.

of Springbank -27689-, Lbs. milk. 8.839; Ibs. fat, 395.33, Owner, A. S.



1- and 2-yr, old Shire stallions, females from yearling fillies up; Shorthorns, both and heifers ; a choice lot of young Hampshire pigs, both sexes, beautifully belter

Clydesdales, Shorthorns and Cotswolds

Young stock for sale most fashionably bred.

Maple Grange Shorthorns

Am offering an extra choice lot of 1-, 2- and 3-year-old heifers, Scotch

GOODFELLOW BROS. MACVILLE P. O., ONT. m Station, C. P. R.; Calidon Last, Local at J. L. medistance telephon

chave for sale, young stock of both sexes. Milking strains a specialty. Mod-erate prices.

L. A. Wakely, Bolton, Ont. Bolton Junction, on C. P. R., within half mile of farm.

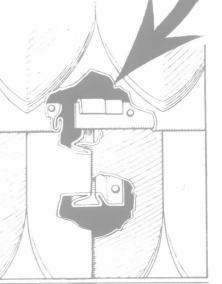
claimed for any other steel shingle

shingle, The material is the Best Brit-ish Galvanized Steel embossed in a bold Gothic Tile pattern—"a thing of beauty and of joy for-ever." Catalog "B-3" gives com-plete details of this newest and best shingle.

THIS IS THE SHEET METAL AGE

The Galt Art Metal Co., Ltd., Galt, Ont.

Sales and Distributing Agents: Dunn Bros., Winnipeg and Regina



Shorthorns and Oxford Down Sheep oung bulls and heiters of richest Scotch breeding ad highest quality. Twelve ewe lambs, two aged Duncan Brown, Iona P. O., Ont.

Had Weak Back.

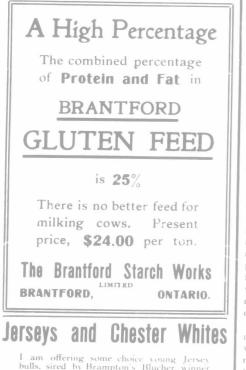
Would Often Lie in Bed For Days, Scarcely Able Te Turn Herself.

Mrs. Arch. Schnare, Black Point, N.B. writes:---"For years I was troubled with weak back. Oftentimes I have lain in bed for days, being scarcely able to turn myself, and I have also been a great sufferer while trying to perform my household duties. I had doctors attend ing me without avail and tried liniments and plasters, but nothing seemed to do me any good. I was about to give up in despair when my husband induced me to try Doan's Kidney Pills, and after using two boxes I am now well and able to do my work. I am positive Doan's Kidney Pills are all that you claim for them, and I would advise all kidney sufferers to give them a fair trial."

DOAN'S KIDNEY PILLS are a purely vegetable medicine, realizing quick, per manent relief, without any after ill effects A medicine that will absolutely cure Back ache and all forms of Kidney and Bladder Discase.

Price, 50 cents per box, or 3 for \$1.25, at all dealers or The T. Milburn Co., Lim-Hed, Toronto, Ont.

In ordering specify "Doan's."



I am offering some choice young Jersey bulls, sired by Brampton's Blucher, winner of first prize, Toronto and Winnipeg, and from choice, deep-milking cows with good teats. Also Chester White pigs, 3 to 4

THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS Miscellaneous.

LINE FENCING.

A bought a farm a few years ago adjoining a village. B owns a three-acre lot extending forty rods back, which he bought off the lot A now owns over 20 years ago. B put up half of post and board fence-and other half was board fence also, but not so substantial. Now this latter part is down, and B claims A has a right to put it up. Has A any right to fence or repair any part of fence around B's lot?

CONSTANT READER. Ontario.

Ans.-Yes; a just proportion of the boundary fence. If they cannot agree the fence-viewers should be asked to de cide the case.

ROARS.

We have a heavy horse rising five years old; had distemper last fall, and, at times since, when excited or drawing heavy, has difficulty in getting his wind. It appears like the roars. What can we do for him, and how should we care for him ? A. W

Ans.-"'Roars' sometimes results as sequel to distemper. It is due to a lessening of the muscles on the left side of the larynx. Little can be done for this trouble. In some cases, blistering the throat gives some relief, and the administration of one dram icdide of potash, night and morning, every alternate week, sometimes helps, but treatment in many cases is unsuccessful

MANURING FOR WHEAT.

Have a piece of sod which I intend to plow about the latter part of June for fall wheat. Would you advise putting on manure before plowing, or plow, and then top dress and work until time to sow wheat? D. B.

Ans .- The proper answer to this ques tion depends somewhat on the nature of the soil. If the subsoil is fairly retentive, manure might, with prudence, be applied first, and turned under with a somewhat shallow furrow, but if there is a leachy subsoil, then it had better be put on as a top dressing and thoroughly incorporated with the soil by surface working. The latter method would be a safe one to adopt, whatever the nature of the soil might be.

If the plowing were done fairly deep and followed by surface cultivation, a very good plan would be to apply manure about a month before wheat is to be sown, plow or gang plow under lightly, and continue surface working so as to germinate and destroy any weed seed



Ridgedale Holsteins I have left three bull calves that will be priced right for quick sale; their dams are heavy producers, and their sire was bred right. R. W. WALKER, Utica, Ont. Phone connection

When Writing Mention The Advocate

LAKEVIEW HOLSTEINS! Bull calves sired by Count Hengerveld Fayne de Kol, whose sire is

the sire of the world's champion milk cow, and whose dam is the dam of the world's champion butter cow. These calves are from A. R. O. cows with records up to 24 lbs. butter in 7 days. Also a few females for sale.



E. F. OSLER, Bronte, Ont.

WM. C. STEVENS, PHILLIPSVILLE, ONT.

Elmwood Holsteins Choicely-bred calves for April and May delivery. Sired by imported Ykema Sir Posch and Pontiac Sarcastic, a grandson of Sarcastic Lad. Registered.

E. D. GEORGE & SONS, PUINAM, ONT

HOMEWOOD HOLSTEINS, header

JUNE

FOUNDED 1866

 \odot

katche

the in

nearly

high I

ness.

factors

men of

ing. I

keeping

gence

plying

of their

some t

ber of

while a

sion w

from t

heed b

This s

not du

majorit

occur f

Inve

CHAS. E. ROGERS, Dorchester, Ont. BRAMPTON Jerseys CANADA'S GREATEST JERSEY HERD We are offering for sale one 2-year-old bull and four yearlings, fit for service; also six bull calves; females of all ages. Come and see them or write. B. H. BULL & SON BRAMPTON, ONT.

High Grove Jerseys and Yorkshires, Canada Present offering: Two young bulls, 1 and 20 months old, respectively; females all ages ARTHUR H TUFTS, P.O. Box 111, Tweed, Ont.

Pretty Miss Jones-As I play an old lady in this piece, I shall have to have wrinkles painted round my eyes, cheeks

Brown-Ah, they will be lines cast in pleasant places.

annin 1 R23 THE PRO

a train

hich might be po

MATERIAL FOR SILO AND STABLE FLOOR.

How much material would it take to build a cement silo (round) 13 feet in diameter and 40 feet high, eight feet to be below the surface of the ground ?

2. How thick should wall be (a) below

3. How much per foot in height do contractors usually charge, owner supplying everything but cement?

4. How much material would it take nary thickness? H. J. S.

Ans.-1. The walls of cement silos are now made much thinner than formerly. Very satisfactory silos are now built with a six-inch wall from top to bottom. Some prefer a wall of say, 8 inches thick at the bottom, tapering to 4 or 5 at the top. Allowing an average thickness of 7 mches for the silo in question, and concrete mixed 1 to 7, about 10 cords of gravel and 45 barrels of cement would

s inches would be thick enough. From that upwards, it might taper to 5 inches

four to five dollars per foot for building

1. Three inches on the average would Le a fair thickness for comment floor, and, 6, about 10 cords of gravel and 55 bar-rels of cement would be required. Many

FAIRVIEW FARM offers young bulls, sired by Pontiac Korndyke and Rag Apple Korndyke, without question the two greatest Korndyke bulls in the world, and out of cows with large A, R, O, records and testing 4 fat. Come and see them or write,

Holstein - Friesians

E. H. DOLLAR, Near Prescott.

108-107, round a standard butter Baron-in 7 days. Also Queen's Butter Baron-ess, champion 3-yr-old of Canada; official record 23,66 lbs, of butter in 7 days; and several others with records of over 20 lbs, of butter in 7 days. Only a few choice bull calves for sale. M. L. & M. H. Heuvelton, N. Y. Haley, Springford, Ont.



Fresh importation just landed in quarantine of 60 head. I have the choicest lot of 12 young bulls I have ever im-ported. From the best herds in Scotland, such as Auchen-brain, Osborne, Netherhall, Bargenoch, Barr of Hobs-land, Mitchell of Lochfergus. All fit for service. A number of cows, sycarsolds, 2-year-olds, and 20 choice yearling heifers. All are for sale.

R. R. Ness, Howick, Que.

ISALEIGH GRANGE AYRSHIRES!

Our herd were all selected on their ability to produce a heavy yield of milk. We have a number of 40, 45 and 50 lb, cows, imported and Canadian-bred. From them are young bulls and heifers for sale. None better, JAMES BODEN, DANVILLE, QUEBEC, ISALEIGH GRANGE FARM.

Shannon Bank Ayrshires and Yorkshires. Ing young bulls and heifer, true to type and high in quality. Young Yorkshires of both seves. W. H. Tran & Son, Locust Hill P.O. & Sta., Ont. W. H. Tran & Son, Locust Hill P.O. & Sta., Ont.

Menie P.O., Ont.

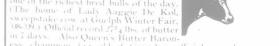
Ayrshires ", We still have a tex choice individuals of almost any age on hand in Ayrshires, and are always reads to price area. Other breaders in this section. Bull calves from Record of Performance cause. When some Yorkshires on hand. Long-distance phone. ALEX. HUME & CO., MENIE, ONT.

N. DYMENT, Clappison's Corners, Ont.

HILLCREST AYRSHIRES. Bred for Pertonnance work a specialty. Fifty head to select from. Prices right,

FRANK HARRIS, Mount Elgin, Ont.

Stonehouse Ayrshires Wimported or out of For sale remains of the





THE FARMER'S ADVOCATE

Investigating the Swine Industry.

The Department of Agriculture for Saskatchewan has been investigating conditions in the swine industry in the Province. It would seem that the status of the industry in Saskatchewan is very nearly what it is assumed to be in most parts of the West. Farmers, despite the high prices being paid for hogs, do not seem over anxious to empark in the business, and apparently prefer the easier husiness of cereal-raising to the hazardous undertaking of trying to produce pork at 101 cents per pound live weight.

The increasing price of meat, joined with a realization of the advantage to farms of an increased a count of manure, and of a rotation of crops, have been factors in an agitation among leading men of the West in favor of mixed farming. Railroad magnates, as well as Government officials and men in charge of experimental work, have been giving no The inquiry into the condition of the

S

d

0

This inquiry was conducted by mail, a series of six questions being sent out to several hundreds of men who had been keeping upwards of twenty hogs last To three of these questions, which had special reference to the prospects of increase or decrease in the hog industry, there was a very great divergence of opinion, judging from the replies received. Exactly half of those replying thought that farmers were inclined to stay out of the hog-raising business, while nearly as many believed that there was a tendency on the part of their neighbors to go into it, and some thought there was no change to note in this respect. In regard to the selling off of old brood sows, and the retaining of young sows for breeding purposes, some were convinced that the number of brood sows had greatly decreased, while a majority believed that there was little, if any, change. The one conclusion which it seems safe to arrive at from the nature of the replies given to these questions, is, that no special increase in hog-production in Saskatchewan need be looked for in the near future This staying out of the hog business is not due to any fear that prices may soon drop to an unprofitable figure, for the majority believed that that would not occur for some time.

There is not the same attention given



Stations | Lucan. G. T. R Denfield, L. H. & B A. O'NEIL & SON, BIRR, ONT., CAN., MIDDLESEX CO.

First and largest established herd of pure-bred Hampshires in Canada. Herd now consists of over 100 head, all ages, including our 1910 importation. We have for sale now imported stock, either sex, from 6 weeks to 3 months old. These are bred from the most noted ancestry, with no objectionable crosses, and can furnish either pairs or trios not akin. Have a few male pigs fron 6 to 10 months old. All stock safely crated and properly equipped for transportation, so there is no danger in shipping even to the most distant points. We also have a very fine flock of Lakenvelder (belted) poultry. Eggs for sale from different pens.

973

Write for prices, or visit the farm.



-live-stock and real-estate AUCTIONEER

he high-quality s to be found in the Eastern Provinces pure-bred boars in use Leing very much in the minority. Grades and scrubs prepoint there was, unfortunately, little difference of opinion.

Increasing attention is being paid to summer pasture and green feed for hogs. Some alfalfa is being sown and used for this purpose, and brome grass is also favorably mentioned by a few, but the roos for early pasture, and rape for

teatrie farmers will easily change from creasing yields and profits almost comtel them to do so. Most will admit doing well enough, and as the care of tail, and is a more exacting occupation an the growing of grain, the day of king the change is deferred.

GOSSIP.

John McFarlane and W. H. Lord Dut



FOUNDED 1866

GOSSIP.

Volume 17, of the Clydesdale Studbook of Canada, has recently been issued, and a copy received at this office. It contains 586 pages, and the pedigrees of stallions numbering from 8000 to 8849, and of mares numbering from 14800 to 16599, a total of 1,799; also the 1909 list of prizewinning Clydesdales at the Canadian National (Toronto), the Winnipeg Industrial, the Ontario Horse-breeders' (West Toronto), and Eastern Ontario (Ottawa) Exhibitions. Also excellent portraits of past and present officers and directors of the Society, and of champion Clydesdales.

ENFORCEMENT OF TWENTY-EIGHT-HOUR LAW.

United States Department of Agriculture to Bring Test Cases as to Space to be Allowed Live Stock in Cars.

A controversy has arisen between some of the railroads of the United States and the larger live-stock shippers in regard to the space in the cars which must be afforded animals in transit from one State to another in order to make unloading unnecessary, and still comply with the twenty-eight-hour law. This law provides that when the animals are carried in cars "in which they can and do have proper food, water, space, and opportunity to rest," they shall not be required to be unloaded. The Department of Agriculture has been appealed to by both railroads and shippers, and the position of the Department is tentatively announced as follows:

If cars are not loaded beyond the minimum weight fixed by the tariffs, the Department will not for the present, raise the question as to whether suffcient space is provided for the animals to rest; but railroads which load leyond the minimum and do not unload for rest, will have to take their chances of prosecution in the courts.

It is the intention of the Department to institute a number of test cases, and secure rulings from the Federal Courts as to what space must be afforded. It is claimed by the Department that this is the only course open, since no power is given the Secretary of Agriculture by the law to make rulings and regulations regarding space to be afforded in cars.

In all cases where live stock is not unloaded en route "into properly-equipped pens for rest, water, and feeding," the cars must be provided with facilities for feeding and watering in transit, and live stock must, when so fed and watered, receive proper feed and water.

TRADE TOPIC. HOUSE PLANTS AND FURNACE HEAT.

It Satisfies

A paint that looks and wears well is bound to attract the attention and favorable comments of your next door neighbor — just as paint that fades, peels, and chalks off in a few months is bound to attract their attention and condemnation as well.

Martin-Senour Paint 100% Pure

Meets every requirement of a good paint—it shows its quality in the can and as it flows from the brush, and months afterward there it shines—a testimonial to the honesty and skill of its makers.

The luckless house owner who depends on the fickle protection afforded his property, through the use of a cheap adulterated paint, will soon find himself bluffed and vanquished. THE Max A house protected by Martin-Senour Paint can enjoy the thousand shrieking

A house protected by Martin-Senour Paint can enjoy the thousand shrieking voices of the wind, while you listen from the vantage ground of your well shielded home. A Good Pure Paint, while defending your home, renders you far greater service -it adds greater comfort, health, protection, cleanliness; besides it saves your buildings from emptiness and decay.

If your dealer cannot supply you, notify us and we will gladly direct you to where our paints are to be had.

Decline All Substitutes

Write for illustrated booklet, "Home Beautiful," and interesting color card. Free for the asking.

The Martin-Senour Co., (Limited) Montreal Pioneers Pure Paint House plants in winter help so much toward that "comfy" and cosy atmosphere in the home, that it is a pity they are not more generally used.

The reason we see so little of winter plants is, doubtless, because of the poor, success which has attended the efforts of people to keep them green and flourishing during a winter season.

One of the chief causes of their failures in this direction has been simply the lack of humidity in the heated air in the house, and it is just another instance of nature trying to show us that something is wrong.

Low humidity is prejudicial to health, and you may have felt its effects without knowing the cause. The thermometer in the room may show a confortable temperature, and yet you have a feeling of oppression, and your skin seems parched and dry. The moisture has been practically dried out of the air, but the plants cannot get outside to get a breath of fresh air as you can, and they droop and die.

The furnace has a waterpan, but it is, doubtless, dry and neglected, but even if it were kept supplied, it is not located so as to provide a uniform distribution of medisture, even if it were large enough to supply the required volume. The lest year can do is to refill it regularly and often

A water, in completely circling the furance, and mode the casar, is a new ater, and mode promises to make furarchied gass - aike heilthy for both brain and that hie, as it guarantees of the obstand of domiseryly of meissive states in studies in

When Writing Please Mention The Advocate.

1

THE FARMER'S ADVOCATE.

The Full Percentage of Cream

Getting the full percentage of cream from milk depends as much upon the oil used to lubricate the separator as upon the separator itself. Gummy oil will cut the fine bearings of your machine, spoil its balance and waste good cream in the skim-milk pail.

STANDARD HAND PATOR. SELAPATOR. DISCUSSION HIND HAND I SERVANTORS BE HE IMPERAL OLI COMPANY

STANDARD Hand Separator Oil

never gums, never rusts, never corrodes. It feeds freely into the closest bearings and insures the perfect lubrication that is essential to the free spinning of the bowl and the complete separation of cream from milk. It lessens the driving effort and lengthens the life of your separator. One gallon cans. All dealers. Or write to

The Imperial Oil Company, Limited Ontario Agents: The Queen City Oil Co., Ltd.

The only Shingles guaranteed lightning-proof

The farmers of Canada each year lose thousands of dollars by lightning. In future they, or you, need not lose another cent from this cause. Simply roof your buildings with PRESTON Safe-Lock Shingles. They are guaranteed proof against lightning.

Our Lightning Guarantee is legal. Send for a copy. Let your lawyer read it. He will tell you it fully protects you against loss by lightning.

We don't charge you a cent for this Lightning Guarantee. Yet you couldn't even buy a lightning guarantee from the makers of wooden shingles or prepared rooting.



You don't get a Lightning Guarantee with any other roofing. Neither do you get shingles galvanized according to British Government Specifications. Nor Shingles SAFE-LOCKED on all FOUR sides. 9

Send for the new and improved edition of "Truth About Roofing." It gives roofing facts you would be willing to pay for. We will send you a copy free provided you fill in and send the

BOOK REVIEW. 'HOW TO KEEP BEES FOR PROFIT.'

This attractive title introduces a new book by D. Everett Lyon, Ph. D., which has recently been published by the Mac millan Company. The following from the introduction gives the aim of the book "It is the purpose of this volume to give the reader an insight into the life history of the bee family, and point out the various methods by which they may be made of increased interest and profit. There are twenty-one well-arranged chapters, and the work is tastily illustrated with photographs, many of which are of practical value. The style is very readable, and the binding and general finish are of the usual excellent order one gets from the Macmillan Company. The price of the book is \$1.50, at which it may be ordered through this office, plus eleven cents extra for postage, if mailed The subject - matter is well arranged and much of it keeps closely to wellaccepted facts of modern beekeeping; but it is much to be regretted that so many serious errors have crept in, errors which we must suppose are due to the lack o a practical knowledge of bees. For example, on page 92, the beginner is ad-vised that: "If a swarm should come out with a clipped queen, it may cluster on a nearby tree, while the queen, in her inability to fly, will be found hopping about in the grass in her endeavor to join the swarm, and can be picked up with the bare fingers, as she will not sting, and removed to the house. new hive being placed on the stand occupied by the one from which the swarm emerged, and the old swarm, having re turned and entered the new hive, the queen can be thrown in at the entrance. thus the swarm is hived without the owner having to handle it at all.' Imagine carrying out these instructions in detail ! What is the queen doing loose in the house while the owner is fixing the new hive? Are the children playing with her, also with their "bare fingers," because she is not able to defend herself? And what about the bees of the swarm rushing in and out of the new hive and back to the tree, because they can find neither their home nor their mother? And the poor queen can hardly be expected to accept quietly the indignity of being "thrown in at the entrance" after being denied the decent privacy of the usual small wire - cloth cage ! In another place, the author correctly informs the reader that to handle a queen with the fingers will often cause her to be "balled" when returned to her own bees. When did 2 + 2 cease to be 4? It would be impossible in brief space to mention all the erroneous impressions which the beginner is sure to vised to pound on the lid of a hive when opening it to find the queen, when we know that this will make her hide He is told to hive shaken swarms or starters, and melt up the combs of the parent hive as soon as the brood hatches. While this, in a proper setting, is half true, yet without further explanation the beginner will put his colonies into winter quarters with too few worker bees, and ber. This dark thread of inaccuracy runs through all the chapters, and seriously impairs the value of an otherwise



Galvanized, Rust Proof Made from very finest sheets, absolutely free from defects.

Each sheet is pressed, not rolled, corrugations therefore fit accurately without waste. Any desired size or gauge, straight or curved.

Low Prices — Prompt Stipment

Metallic Roofing Co., LIMITED MADUFACTURES TORONTO AND WINNIPEG 2402 (47)

 $3\frac{1}{2}$ %

You might better place your savings here where they will earn $3\frac{1}{2}^{\circ}$, instead of 3° . Security, \$2,000,000 assets.

A G R I C U L T U R A L SAVINGS & LOAN CO., 109 DUNDAS STREET, LONDON, ONTARIO.



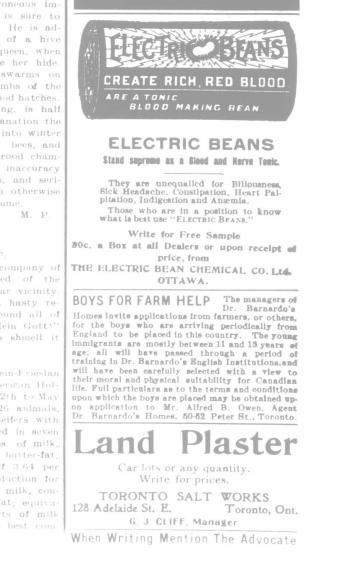
975



GOSSIP. A BIG CONTRACT.

A German camping with a company of men, awoke one night apprised of the presence of a skunk in the near vicinity. Holding his nose, he made a hasty reconnoitre of the camp, but found all of his companions asleep. "Mein Gott!" he exclaimed, "haf I gott to shmell it all ?"

Official records of 226 Holstein-Friesian cows were accepted by the American Holstein Association, from May 12th to May 15th, 1910. This herd of 226 animals, of which over one-half were heifers with first or second calves, produced in seven consecutive days, 920,000.8 lbs. of milk, containing 3,351.974 lbs. of butter-fat; this showing an average of 3.64 per cent. fat The average production for each animal was 407.1 lbs. of milk, containing 14.842 lbs. of butter-fat; equivalent to 5% 2 lbs. or 28 quarts of milk per day, and 17% lbs. of the best commercial heatter per week.



THE FARMER'S ADVOCATE.

At your service Sir-Anywhere"

JUNE 9, 1910

YOUmust

analyze the parts of our No. 1317 Telephone Set to fully appreciate its superiority. For example, a farm 'phone demands an extra loud gong-you're liable to be quite a piece away when it rings and it's of little use unless you always hear it. The gong we use is made of brass-a big one -and produces fully 50% more noise than any other gong for farm use. The gong posts are mounted directly on the ringer frame so that even the warping of the instrument cannot change the adjustment.

Our Newly Designed No. 1317 Туре Telephone Set

HAT'S what a telephone says to every man on whose wall it hangs. It's a good servant-is a telephone-a mighty good servant and always ready and waiting for you the moment you want it. And not only is it there for business, but it stands for pleasure as well. Think what a convenience,-what a deal of comfort,-it would be for you in the long, lonesome winter evenings, when the snow is piled mountain-high in every path and road. Or suppose you needed a doctor on one of those evenings — just suppose. Well, if you have a telephone — but you know the story. There's only one way for a story like that to end if your telephone's a good instrument — if it doesn't get out of order - if it doesn't fail you at the critical moment-in short, if it's a "Northern Electric." You save a trip to town — a long wait — a neverending journey back - and -Who knows! perhaps-a life.

NO.1317 is equipped with our new No.48-A generator-a generator whose efficiency is

greater, and which will ring a greater number of telephones on a longer line than any generator on the market. Thousands of these generators are operating on lines more than 30 miles long with as many as 40 telephones on the same line. Indeed, in one case, on a line approximately 75 miles long, there are 75 sets. While this is, of course, really too great a load, it is of interest as indicating the wonderful strength of this generator Consider this

> And Some Its Principal Exclusive Features

is also equipped with our new type No. 38 ringer, a very sensitive and efficient ringer operating with only one-third to one-fourth the current required for other ringers in use on farm 'phones. The cabinet, or wooden part of this telephone is the very finest quality and finish of quarter-sawed oak-in point of mere appearance this instrument is an ornament to any wall. Of course, this means nothing, unless the service it gives is of the very best; but, consistent with satisfactory service, good appearance is always desirable.

Write for our Free Book

THE whole story of rural telephones is yours for the asking. Simply tell us that you want it.

Ask us to send you Bulletin No.1216 and let it tell you not only all about our telephones for farm use, but also of the steps it is precessary to take in the formation of a rocal 'phone company, This book tells how simple it

is-how very little money is required and places you in a position where you can go right ahead yourself in your own community

tion you want, all you have to do is to ask for it-tell us what you want, and we will supply you with every detail. Why should you not be the man to promote a telephone company in your own neigh-



such as the fact that the armature is normally short circuited so as to give it complete protection against damage by lightning. The act of turning the crank, automatically connects the generator to the line-and this circuit is again broken as soon as the crank is released. All magnets are made of a special steel so as to insure their retaining their strength indefinitely. Remember this and organize among your own is a five bar generator and neighbors. After you get the fully fifteen per cent. more book, if there is other informaefficient than any other generator on the

borhood? Writeusto-day --remember,

he story is yours for the asking.

market-specially adapted for use on long, heavily loaded rural lines.



NANUFACTURING CO. LIMITED AND

and suppress of all apparatus and equipment used in the construction, maintenance of Telephone and Power Plants. Address your practice office, Manufa operatio

VANCAL ER, 918 Pender - .

