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VoL. XLV

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ONTARIO PROVINCIAL
Winter Fair

## GUELPH, ONTARIO

December 5th to 9th, 1910
MAGNIFICENT EXHIBITS
of HORSES, CATTLE,
SHEEP and SWINE
PRACTICAL ADDRESSES A special feature of the programme of addresses this year will be ten
addresses on the production of feed for live stock. This series will be opened by Mr. C. C. Jaməs, Dsputy Minister of Agriculture, with an address on "The
Peorest and the Best in Crop Production." Following this there will be an address on "Underdraining," two a ddresses on ro 15 , four addresses on corn, one grain-krowing and one on to lder cr Jps. Other tec
be devoted to addresses on poultry, dairyink, seeds and hor

JUDGING COMMENCES MONDAY AFTERNOON and evening with some of the best ch SINGLE-FARE RATES ON THE RAILWAYS


"BT" Steel Stalls and Stanchions should bein every stable. because



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SHIP YOUR APPLES DIRECT TO ME Highest price and prump retlements guaranteed
Correspondence invitud. Market reports by letter


# The Farmer's Yidvocate 

Persevere and Succeed.'

rol. XL, V.<br>\section*{EDJTORIAI}

To make a nation great externally we must
make great souls first. Civilization is only in- make great souls firstang a material thing; primaty it is a thing of the soul-N. Dwight Hillis.

Cropping and live-stock returns reported by Emerald Isle," coupled with the enterprise of Irishmen in bidding for first-class breeding stock, indicate a betterment in Ireland's material prospects that will be gratifying to well-wishers of

That the United Kingdom should have in creased its imports of flour from Canada by nearly 14 per cent. in the three years (1907 to 1909), while imports from the United States fell off by $2,800,000 \mathrm{cwts}$., is a matter of which Canadian inillers may well be proud. It is all the more gratifying in view of the

Amid the still all-too-abundant evidence of evil in potitics, it is encouraging, every once in a while to find public administrators who conceive their duty to demand efficiency and honor in ment of a complete reorganization of the Govern ment printing bureau, at Ottawa, followed by Hon. Frank Cochrane's declaration that the On tario fire-ranging service is to be made really ef ective, instead of a profitable holiday for impeunious students, is along the right line.

Lord Strathcona's generosity in donating half - million dollars for the encouragement of physiul dirio and military training in Canadian idea. There are those, however, who, while lavoring physical drill and recognizing the need oi national defence, regard with misgivings the propesal to inaugurate military training in the schools. Nor will the demands of the schooltraming upon the limited hours of the school our rural education by introducing those fundamentally necessary features, nature study, schoolmentally necessary features, nature study, school An eminent medical authority says all that is necessary to control typhoid is to keep human "xcreta out of the food and drinking water. This be. imagined. Milk may be contaminated by in lected water used for washing dairy utensils osters fattened on sewage containing to origi
irom typhoid patients, have been known to irom typhoid patients, have been Flies are com thon olfenders. A recent eptaemic or more pa the. as a result of which there died, has been atributed, unofficialA1 all events, to the infection of cooked meats the germs from a previous case in the vicinity Because bacteria are microscopic, the layman ofte fails to trace connection between cause and effect.
The lessons, however, should not ine lost. Scrupu-

Co-operation-A New Angle. That it will not be to the producers' interest o enlarge the output and improve the quality of our farm products, unless we first of all change the market conditions so as to insure against midilemen taking advantage of the large supply O bear down prices, is the claim stoutly pu forth by peter wi e, fe, ans and business man, of pembroke, ator company of a well-known Canadian incubator company Whese interest coincides with the farmer s in thation to sump-prices and bring about a reaction from the poultry business, Mr. White has been force to give this subject a grood deal of thought, an his conclusion is that there is no hope of per inanently satisfactory marketing conditions unt the iniddleman has been eliminated, and producer irtually control the market. The Farmer's Advocate," he harked back to the correspondence precipitated by the FlavelleDuff open letter, alluding to the position taken by several farmers that they would rat hiph priest small production of, say, hogs at high prioes, than a large productor about ayain if overhe packers might bring about again Evidently, production Canadian farmers are afraid to place power in the hands of the middlemas, who s , in this case, the packer
Co-operation in marketing is the means by which he would strengthen farmers in the confidence that they might safely enlarge production and improve the quality of their produce. As il lustrating his idea, he cites the familiar ex ample of Nenmark, as well as the reported ex perience of onion-growers and other producers in the United States, who, finding themselves ground betucen the upper millstone of the middlemen an the nether millstone of large produ ex, from their intolerable stuation by ext unneces operative organization, which eliment of producers sary expenses, insured to large extent con according the price trolled the maricle Coming home to Canada, he tor an the successful efforts of our Western grain-growers to secure the fair and stable grad ing of their wheat, with the result, it is said that Canadian wheat is now the standard hy which the grades of the world are fixed, also to our cheese industry as having been burt up on an extensive, enduring and profitable basis, se cured against the depression which middlemen en deavor to bring atour wrices the producer enables them to depress prices to the producer Other (anadian examples at present are the might be more happiations, the co-operative onionert scotland, Ont, the Ken growers cotints or two asricultural societies in the Maritime Provinces, which save money for their members by the co-operative supplies. commercial fertilizers and other more middlemen. and some of them at least endeavor to rewaro the grower who supplies articles quality.
That successtul coroperation on this kind is decided economic advantage, no thinking person will deny. That it promises utherate in general the consumer, and clear. That it brings ubout $x-2$
will permanently insure against slumping of will permanently insure against slarge production, is claiming too much. This has been proven clearly the past summer in the case of the cheese industry, as the widespread murmuring about prices abundantly attests. The fact of the matter is, nothing bui a closely-organized monopoly or natural devastation can guarantee against over-production and low prices in any particular line. Make a certain business profitable by co-operation or otherwise and you attract more producers In the and thus reduce profits automaticall seems to case of the cheese about partially by a slackening demand, but the principle is all the same. Relatively to other commodities, the production of cheese is at present too large for the demand

Nor is it correct to contend, as some have seemed to imply, that the margin between five cent and ten-cent hogs was due wholly or largely to a difference in the packers' opportunity to bear prices. Granting that the packer tries when he can-just as do all other classes of business men-to buy cheap and sell dear, it is neverthe less absurd to argue that he can pressing prices more thra fres had been regularly rare intervals. If the packers had boen or three Jewing hog-raisers co the co-operacents a prund, it is hard could have failed, badly tive pork-packing plants courted as they probably manage if they had failed, other private wital have flown into the packiny business and furnished competition, there wore none before. We hold no brief for the packers, and heartily agree that it co-operation could save the farmer an eighth or a quarter of a cent a pound on his hogs, or could insure the payment of a premium for quality, it would be well worth while. To say that it could do much more than this is to be gulty of careored tatement. The hundred-per-cent. pronts roported o have been made by one packing company a few accumulated not by doubling is percentage of profhousand hogs, but by is on a large turnover

The fact of the matter is, our middlemen do not to any great extent control either the buying or the selling market. They are, and conmost parl, a buner they at times hold and use sumer. Undoublody, and this power we would power to modiry placed in the producers' hands. Undoubtedly, also, for their services as speculators and jobbers, they exact a percentage toll. They must do so, or they could not ${ }^{2}$ toll, likewise, we would fain see in the prot is he waltet, though we must remed aciliwent to the expense or price for a raise, it would ties and holding his prod at least, of the middlecost mans are often an awkward snag in the securing fe paimen a pasis of quality. It has proved so with apples, eggs, cool-cured cheese, and many ther commodities. For this further reason we would heartily welcome the elimination of the middieman. We believe in co-operation, and have preached it repeatedly. But we must in exaggerate its benefits. We know its his o-Canarla-how difficult it is to get and to keep them operate, and how much harder sthe principle of each for ali. As a gereral thing, successful o operation has been born of desperate conditions
which have driven producers together of neces-
 and Home Magazine. the leading agriculutural journat

sity. It was so in Denmark. it was true in the case
so
was so with the bean-growers at chatham. Co-
operation is a
Work for it, but work for it with a full realza-
tion of its limitations and the causes of past failures. Thus sensibly promoted it will be more lincly to succeed. Meantime, let wery man
make the bust of the marketing situation as it is Ther. is ronm for most of ne to expand our
profits stradilly by larger production of a first class quality of produce. while, by enterprising business methods, many of us may improve our cooperation or other organized effort. Make the

The Winter Fairs
The fall fairs of another year having haully looking forward with interest to the ceming winter exhibitions which round up the show circuit of the year. While the summer and autumn
shows have their place, and serve a useful pur shows have their place, and serve a useful pur-
pose in bringiog out for competition the cream pose in bringing out for competition the cream, ereals, roots, fruit, etc., the winter fair display the results of judicious breeding and feeding and showing the most desirable types for profitable production; and the dressed-curcass compe quality of the living animal with that of its flesh when reayly for the shambles, an educational feature the design and character of wheder
should prove helpfull to the breeder and feeder and of interest to all concerned. It is gratifying to observe that the tendency of the times is to encourage the adoption at agricultural exhibitions of practival demonstrations of the work and
products of the farm.
product combined, for a short period, while the
Record of Performance adopted by the breed societies affords opportunity for tests for longer settles the question of the profitableness of in dividual cows and of the herd. The poutry show at the winter fair hrings out the bpearance, season when thes are the business of the farmer has arown in importance until it ranks among he most profitable in returns, considering cost of production. The poultry show at Guelph is mertainly one of the very best of chality, and is in utself weil worth the cost of a visit from any peteci at Guelph last year. Last, but by no means least in importance, is the Horse Show, a
feature in which farmers of every class are more feature in which and which was added to the
or less interested, and wher Guelph show last year, and is continued this
vear., with an enlarged classitication and more liberal prizes, which will, no doubt, bring out heavy and light horses. The furm-seed section of this show is also growing in extent and interest
from vear to year, and is an important branch of the exhibition. Added to all the features above named, are the lectures by prominent practical
farmers, breeders and scientists, which furnish much useful and helpful information. ConsiderIng the small admission fee of twenty-five cents
the single railway fare, and the fact that the season is not a busy one on the farm, the attendance at the fair this year, at the Ontario Winter Fair, record one. The prorramme of events will be The Maritime Winter Fair, at Amherst, Nov Scotia, is slated and the dates for the Eastern Ontario lite

Danish Encouragement of Agriculture
shown in a report hy a a British wer ace-consulture to the
$\square$
 bers, and the grant to these is $\sum 10,900$. In ad
dition, the state pars considerable sums for lec travelling "ppenses
There are 260 horse-breeding. 1.310 cattle breeding. 250 pig hreeding, and 90 sheep-hreetling associations, and of stoch. There are 1,500 creameries which (to not receive direct aid, and rectls, aid is wiven through control societiss, the sum of edlucational work in dairsing. The largest sum $^{2}$ of all. $£ 222,222$, is at the disposal of the parish years, for the purpmes of assisting peasants purchase farms. For forestrational institution connected with acriculture receive state grant
With this well directed national assistance, is any wonder that Danish farmers are prosperol and their country renowned for the excellence its profluce?

## Industrial Education.

Industrial and technical education has the men from manual labor, but of keeping them in constant touch and sympathy with it, requiring tion to practice the simpler mechanical operathem. meanwhile the take up more complex varieties as a life-work after gratuation. There can be no manner of doubt that practical and techmical education, while giving the individual stimulated the acricultural and manufacturing in dustries of the country. And, at the same time, by binding together the skilled hand and the educated brain, it has wrought powerfully for the

Having returned from judging in Newfoum land, and returned from judging in Newfoum minds of many in Ontario and other places garding that colony, I decided to write you
few notes concerning my observations and int iresswons. I landed at Port Aux Basque, a we irain to st. John's, a 28 hours' ride through a interesting country. Beautiful bays, lakes an streams teen. with fish; the valleys in places fields; then, there are long stretches of pean bor, and some rocky stretches. Fixtensive man facturing plants are to be seen, as well as sus. evidencing business activity along the branch lines. Fimally arrived at st John's, we foun a hustling city, built on the shore of a beautin Atlantic liners down. The city has many the. fine residences; heautiful. commodious Goverl ment buidings, and large manufacturing estah.
hishments, and is surrounded by some beautiful. lishoments, and is
productive farm finds. The (aovernment anxious to improve agriculture, and this
held an exhibition which was so sood that it prised themselves, as well as the visitors. In the exhibits of potatoes, turnips, cabbake, celery, to matoes, wheat, oats, barley, rye cointings, draw prodtucts, ings wearing apparel and bedding-one quilt was insured for five hundred dollars; it certainly was beavtiful. And the decorations and arrangement The manufacturers' exhibit was splendid. There was a large hall artistically decorated, and a great variety of articles well made and attracwas in peration drizen in a casoline engine and the straw pressed in bundles as it came from the machine Amonest the live stock were fine swine. There were many fine horses. especially variety of ponies, irom stout, useful ones to children's playthings. The exhitition was managed
by the members of the fovernment, one and all
of whom are enthusiastic ower the arricultural possitilitites in Sewfoundland, and doving all they
can to encourace it. They are importing breedrs. and contemplating a school of agriculture: as to what is being done along that line HORSES

## then inturn wis.



 The law of heredity insures the transmission of winsoundiness and imperfections of ancestors.
Breeding animals should be free from abnormal development in any part of their conformation as such developments are imperiections sure to
be transmitted to their progeny. When tying colts up, use good strong halters.
A good halter, properly tied, not too long, will
give a cult a respect for rope and leather that will prevent him from ever becoming a halter breaker. Don't allow them too much rope of they may
pening.
The small amount of oats and clean hay that a weanling colt will eat the first winter does not cost much money, but will pay more interest given to almost any other animal on the iarm The reason is that the gains made the first win
ter are permanent, and decide the future scal and weight of that colt when matured. The wa. to grow big horses is to keep the colt growing

At this season of the vear, when most oi the
fall work is done one is tempted to overfeed
and under-exercise the work team. While it pays and toncer-xercise the work team. While it pays
to tone up the horses that have workeal hard all
summer there is danger in overfeeding unless er


Sand Boy 2nd [571]. Two-ycar-old Shire stallion. First and champion at the Western Fair, I.ondon 2tandard-breds and abudant exercise goes with it. A man finds standard-breds and
his out when he takes out a fat, idle horse, and make splendid gener tarts for a drive, to find that he has a sick pure breeding should ${ }^{\text {n }}$
orse on his hands after a few miles, and pos the class. I feel, if sibly a dead horse if he goes very far. It is
simply the old trouble of azoturia, due to rich
sith fimply the ouaccustomed exercise bringing on kidney chese columns, but the best remedy is prevention, inese columns, wational feeding. Yet nearly every in the way of to have to undergo the loss
horse-owner seems to
af one of his best horses before he heeds the les

Carrots for Horses.
$\qquad$ hot becn in the hatit of feedng the free use of theni, they would never be without carrots be tween October and March, says the Carrots do not keep somad, and during March and April the hard and welcome mancel is ripe and ready for horses but no food known to the exper to the blood, so casily digested, and so cheap, as white Belgian acre may be grown, and about one acre to ever four hor bes should be drilled in April. Seved foning and digging, but it will result in 30 pe cent. recuction in the and expedition in the culti
also reater efficiency and
ation, because ho horses are more robust. and consequently more vigorous. A team of twelv tarm horses might cost in annual keep, withou

Re the General-purpose Horse
hist, it is important porticularly in refer
maniority, then declared
iny the presiding officer
ti) he the standard for
in all parts of the country as to the treatment
with carbolic acid, and, so far as I can gather,

 large. if the report that the committee have
heen sitting on for so many years does as much been sitting on for shen it is hatched for the cure and prevengood when it is hatched carbolic-acid treatment
tion of abortion as the
has done, then they deserve well of their country, 1 think no one ever expected that a pro-
fessional conmittee, with little practical knowledge of stock-breeding, would do anything else
than condemn a cure adopted by a layman. of
course, we stock-breeders would not think of course, we stock-breeders would not think mi-
pumping a pregnant animal full of abortion microbes, and then trying to make her immune from
the disease by the carbolic-acid treatment. The the disease by the carbolic-acid treatmental swal
wonder to me is that the one experimentaiteo wonder to me is that the one experimental swal-
low that made the summer for the committee did not abort her calf sooner than she did!" "I feel it Henry Lyne, Mariioorough, writes: "I feel it
my duty, in straightforward fairness, to state my duty, in straightforward fairness, to state that, having had thirty years, I have never found any lreatment of any practical benefit until I tried Mr. James Peter's internal treatment with carbolic acill I consider this is a satisfactory
prevention, if carried out with thoroughness prevention, if carried out with choroughess
(without thoroughness, success cannot be expected). Mr. James Peter has taken such any
interest in starting this treatment, and so many interest in starting this treatment, and so many
people consider that it has been very beneficial,
with that it is a great mistake to brush aside core contempt, at any rate, until s." Inother writer says " On such a questionge,
it is most difficult to obtain empirical knowledge it when we find that abortion continually ceases after carbolic saturation, we cannot help
connecting the two. I have never claimed that it absolutely prevents abortion in every case, although it has done so in every case when the acid has come under my notice. I quite agree that has come udministering of small quantities would answer the purpose better than larger weekly carbolic acill given in bran. I started with 20 Irops to each daily, and have now worked them ong, which will be four and two thirds teaspoonfuls a week, or a little over half an ounce. I find it best to keep a large bottle broken down to five
per cent. strength-that is, one part of acid 10 per cent. strenter. There is less danger in measuring then. At the same time, the mixture should have a distinctive cror, which may be gained ry putting a mixture (two tablespoonfuls) contains twenty-four drops of acid, so that one can commence with seven teaspoonfuls of the mixture (twenty-one drops), and gradually, as they wil eat the mash, work up to thirteen tonspoonfuls up in the same shed and measuring out by a grad-

Carbolic-acid Treatment for Abortion.
$\qquad$ he ath Board of Agriculture re the with food or in whter as a drench, for the prevention and cure of contagious abortion in cows,
with severe critism in letters addressed to Farmer and stock-breeder hy breeders who chac to have used the treatment with very stisfec


THE FARMER'S ADVOCATE
further mixed with water to thout a quart to
each cow This is poured on to the bran, aloou
Capeass Mutton and Lamb.
From an illino is Bulletin on Market Classes and Grad

Various styles of dressing mutton and lamb
carcasses are used for different branches of the carcasses are used the market value depends upon
trade and since the
the manner of dressing, as well us the srade the manner of dressing, as well as the grade of
meat, both are usually specitied in mutton and
 and lambs have the pelt,
and fore leg folded at the knee a they are opened
only from the cod or bag to the breast, split only fron the cod or bay to the breast, spat a
about hall way through the breast bone, and a
, This is spreaddstick placed inside the fore ribs. This is
the style most commonly used in dressing sheep spreatyle most commonly used in dressing sheep,
the sha the best grades of lambs are usually dressed
and in the same manner. Caul-dressed carcasses have
the ribs and flanks turned outward, and fastened back with set-sticks, and the caul wrapped about tho legs and laid over the inside of carcass, the
thiect beiul to improve the appearance, prevent object beiug to improve the appearance, preven
drying out, and in some cases (especially in drying out, and in some cases (especially in
lambs) to furnish the fat necessars for proper
cooking. The lowest grades of sheep and all cooking. The lowest grades of sheep and all
grades of lambs are cauldressed. The term grades of "lambs are caul-dressed. The term

- pelt on ", refers to lambs from which the pelt and head have not been removed. This style is
generally confined to light lambs. They are geperd the same as round lambs, and in some
oper markrts are dressed with back-sets, and caul 1 aid
over the belly. Sheep and lambs dressed either over the belly. Sr ". Pett on ", are quoted "pluck
plain, round
in" sind "lluck out." The pluck consists of the in"" and "pluck out." The pluck consists of the
heart, lungs, liver and windpipe, and is either
nes. left allached to the carcass or removed, as indi-
catod by these terms. Lambs are generally sold "pluck in." and sheep " pluck out." The grade and the value of a carcass depend weight. Good width in proportion to length together aith compactness and smooth, even out lines, are the essential points of good shape. This
implies a thick loin, broad back, well-meated ribs, a full, thick middle from shoulder to leg; plump, thick legs, filled well down on the shanks, and smoothly-covered shoulders. Covering reters cause of its influence on the appearance of the dressed sheep, quality of meat, and shrinkage both in storage and in cooking. The fat should only in the most highly finished sheep are the legs and shanks completely covered. The kidney fat should be well developed, but not excessive;
it is an innlortant indication of finish. The low. it is an intlortant indication of intish
est grades of carcasses have practicaly no outside. The flesh should be firm and fine-grained
The color varies from light-pink in lambs to dull red in mature mutton; the fat should be clear and the ribs and shank-bones are colored by blood vessels. In mature sheep, the bones are white and hard. Weight is of greatest impor-
tance in lanms, though it is of importance in all tance in
classes.
The carcass is usually divided between the twellth and thirteenth ribs, yielding about 49
per cent, saddle and 51 per cent. rack per cent. saddle and 51 per cent. rack.
divisions of the saddle and rack are quoted as wholesale cuts to some extent. The cuts derived from the saddle are the leg and loin, separated
fat the hip-bone, and including two-thirds and at the hip-bone, and
one-third, respectively, of the weinh of the sad-
The rack is made into a stew and a short die. The rack is separating tene ribso (the third to twelith,
rack
inclusive) from the shoulder and treast, as shown inclusive) from the shoulder and breast, as shown
in the illustration. The short rack includes twoif the and the stew three fifths the weight of the rack. The short rack has the highest market value per pound of the wholesale cuts, and the
legs, loin and stew are valued in the order legs, 1 Hin and stew are valued in the order quoted and sold at higher prices than the ribs, but retail demand for the latter has, during the last ten or firteen years, ,
exceeded the the demand for legs
Choice, good, medium and common are grades,
bout one-fourth inch fat over the loin is con
 dium weight. Since the legs make up tout one sixth higher price per pound the import.
sime
that portion of the saddle is apparent. that portion of the saddle is apparent. Aside
from thickness and shape of leg and toin, saddles may grade low by reason of a deficiency in gen ring. The proportion of kidney-fat, its colot and brittleness, are also importantactors. It mutton sadidies by lasses, as wether, ewe
Werizhts of saddles comnonly handled are 20 to 50 pounds. and the majority average 20 to 30 pounds. Choice and
koor saddles stre. on the whole. somewhat heavier

sists of a regular saddle and short rach in one
piece ; in other worlds. it is the portion of a car ass that remains when a stew or chuch is cut
rom it. $L$ Legs andloins are cut principally from rood and cheice saddles.
legular or " market rood, medium. and common. Thickness and quality oi flesh, proper thickness of covering on the back and ribs, and absence of coarseness,
essential points in grading racks. The "eye of essential points in grading racks. . is of the same significance as in the
mutton
case of saddles

houph onty two-liths the weight of the rack epresents about two-thirds of its value, ar ity and proportion of bone are indicated by the ribs and shanks, as in carcass mutton. The shape of neck indicates whether the rack is from wether, ewe or buck. The range of weights i
the same as that of saddles, viz. 20 to 50 bs with the bulk from 20 to 30 lbs .
Short or "hotel". racks, or ribs, are mad from medium to choice racks, and graded similar y to them. They are cut 8 to 12 ribs long in
various inarkets, and in some cases are mad


Border Leicester Ram.

10 ribs. They are quoted both "blade in," aremium of one cent per pound being charged or the latter. As explained in describing beef of the age of the carcass and quality of the bone heing a white, soft cartilage in young, well-fed sheep, and gradually changing to bone according
to) the age and development of the animal. The
or "ii) chops, which exceeds that for any oth hotels, restaurants, dining-cars, etc., for French chops, which consist of a rib chop and fat, leav and ione. A mutton stew (chuck, wing, slug, or rattle) is the shoulder, breast, and shank, in one piece, including nearly one third of the carcass weight and two-fifths rain and color of flesh, and quality of bone, in dicated by the ribs, shanks and shoulder-blades. This is the cheapest cut of the carcass, frequently
selling at less than one-third the price of short selling at less than one-third and one the same grade Lambs are more largely sold in the carcass han sheep, owing boticto shater size and of it is estimated that one-fourth to one-third of the wholesale lamt trade consists of cuts. The methods of cuttinh and proportions of the Lamb saddles and racks, owever, are still less commonly cut up than these of mution. The grading lamb culs is also similar it general to that of mer the loin and ribs is de
eighth inch of fat over the sired in choice lambs, and a marked variation in either direction from this amount throws the cut inter of excess or deficiency. The color of flesh in cuts of lamb is lighter or more pinkish red than in mutton. The depth, grain and firmness of tlesh and quality of bone, are points of prime
importance. As in mutton cuts, the short rack has the highest market value, followed by the legs, loin and stew. AMBS
Carcasses of sheep that are more immatur in degree of maturity is indicated principally by lighter color and finer grain of tlesh, redder and softer bones, and a break-joint conat is smoothe with lighter weight of carcass. Sex is not speci fied in lamb quotations, and only in fancy trade is discrimination made in favor of wether lambs sale mutton and lamb trade consists of lambs
 more largely by quality and weight, and less by mutlon. Quality of flesh and bone is especially important, for the reasons stated in describing veal. Weight is a matter of much significance i
selecting lambs, and a decided preference is show selecting lambs, and a decided preference is show
for weights well below those of yearlings, be cause the latter are to some extent sold as heav. lambs. Dressed lambs seldom exceed 50 pound in weight, but no distinct line can be drawn be
tween the two classes cither in weight or degre of maturity. The minimum weight of lambs is about 15 pounds, and few carcasses weigh less than 20 pounds. Form and covering are Plump legs; full, wide backs and loins, and thick flanks and breasts, are the principal points by which good form is judged. In covering, lambs
are not as fully developed as yearlings. The back are not as fully developed as yearlings. Tuch les fat is iound, especially on the legs and ribs, than in other classes of dressed sheep. Medium and common lumbs are, as a rule, caul-dressed, and
choice grade is princinally round-dressed, and
good lambs either canl or round. All grades of caul and round lamts, are quoted both " pluck The term ""genuine " is used during April,
May and June to differentiate early spring lambs from other lambs which resemble "springers "in quality and weight, such as frozen lambs stored
since the previous summer and light a yearling since the previous summer, and light " yearling
lambs, It is rradually dropped after the ar-
rival oi the regular supply of spring lambs in Winter ""hothouse " or "incubator ") lambs
are light, young lambs which precede genuine spring lambs in the market by two or three
months, being in season from January until May, and a small number being available for Christ-
mas trade. They are similar to early spring
lambs bul lambs, but are of lighter weights, and show bet-
ter development in proport ion to their age. The ter development in proportion to their age. They
consist principally of native country-dressed
lambs, six or seven wechs old. They weigh 20 lambs, six or seven weeks old. They weigh 20
to 45 pounds, and the bilk, 30 to 40 pounds. gross. They are dressed " pelt on " and "pluck
in." with t wo back-sets. and the caul placed over in, with two back-sets, and the caul placed over
the belly. They are principally shipped to prodrants and clubs. instead of passing through the large wholesale markets Being marketed in hich prices, and are taken by the most select trade. The few that are sold in retail markets
$\mathbf{U}$
novembicir 24, 1910
THE FARMER'S ADVOCAIE

Tuberculosis 1. Is the process of

## :

THE FARM.

wheat which is likely to succeed, as regerds yield, under many conditions both for antumn and

Grains, Grasses and Roots at Macdonald College
One of the chief disadvantages of our Agricule tural Colleges is that they are so few and far
apart that our farming people do not get in apase personal touch with them and with what they are doing. A few hundred students each sear are in attendance, and a fell tho for one or two days; the former gather much valuable knowledge, but the latter are overwhelmed with
the size of the institutions and the multiplicity the size of the institutions and the multiplicity of their etforts, and go away inspired, maybe, but
only slightly informed. If farmers could visit


An Excellent Crop for Sheep
thern often enough to get thoroughly acquainted, it would be much better. With a view of getting our readers in closer touch with one of thase splendid institu College, and a few of the many to Macaonangs being accomplished are here pre sented. Department, in charge of Prof The Agronomy Department, in charge of Pror
K Klinek, is accomplishing splendid work, obtaining invaluable information in many varied lines of research. Striking results are being obtained along many lines of work in the growing of field crops. Experiments have been conducted for three years to determine the
different rates of seeding oats, wheat and barley. Sowing oats 5 bushels per acre gave 71.20 bush els grain and 1.9 tons of straw at harvest time
31
bushels gave 69.23 bushels of krain and 2.1

acre, the second 26.95, and so on down, wntil the last yielded at harvest 15.90. Thus it is eident That spring wheat must be sown early in eastern
(Ontario and in Quebec for good results. With wats, exactly the same conclusion is estabished the first seeding averaging over 70 bushels, and
the last averaging 59.36 bushels. But, with the last averaging 59.36 bushels. But, with The carly and the late seeding both average highcr than the middle periods, the first being barley cannot be sown early, it does better sown rather late. Peas on the other hand yielded nigher from the middle periods of seeding tha from either the early or the

TIME OF CUTTIN
A corresponding line of investigations have vesting was done at five different periods a week apart, the fourth one of which represents fully ripe grain, and the fifth overripe 32 bushels per graio from the first cutting was 49 bushels, the acre in oats, from the second
third 57 bushels, the fourth 60 bushels, and the fifth 53 bushels, which clearly shows that the grain fills very fast toward ripening, cutting much is lost by shattering.

## - varieties

In the variety testing, several kinds of oats have yielded well for the three-year periods. Early Triumph, however, has headed the list, givperimental Farm strain of Banner oats standing second, with 64.92, the Dery Banner giving 64.72, he O.A. C. Banner 61, and the Joanete to this section of country. Excellent results have been obtained with milling spring wheats, Pringles Russian 29 13, Red Fife (O. A. C. strain) 29.02, Red Fife (Ottawa strain) 26.36, and Crewdson's 28.99. It is also being clearly demonstrated by the work at Macdly grown in this section of councan be successurage yield of nine different vari-
try. The averag eties, covering three years, has been 41.14 bushels. Abundance has averaged, 48.12, and Turyears, Red, 43.98
The six-rowed barleys have averaged 8 bushela per acre more than the be sufficient evidence to divorce farmers of Quebec from the two-rowed kinds to which they have been so long wedded.
RREAT ALFALFA RESULT:

But what seems to be best of all are the re the prhaps because sweet clover has preceded it in many places. The yields are wonderful, and the 9.46 tons of cural hay and another 8.27 , in thre cuttings. Professor Klinck believes thor oughly in leaving in the ground to freez the grou winter, and
down lots are now
the lis aches about 18 inches high practice was demon-
strated last year by cutting part of to six inches in height. As a result, this year
the first two yields were considerabl part. and the stand weakmay be able to prot may be able to prot
it from this piece of work.
Success has been
attained with sum-
mer sowing, though mer sowing, though
spring sowing hase
been giving larger
yields. When sown yields. When sown
in the fall, the crop must be gotten in
about the 8 th hured and lightly tons straw; and $1 \frac{1}{2}$ bushels of grain at seeding August. the land spring again for best vielded 59.56 bushes ind aticating that seeding inclines to a straw harvest, in which the gram ripens tess regularly. With barley aurd thea two bushels per lage arises in sowing anore whende

TIME OF HEEDING. As to time of seeding, several sermons stand out in the results. week apart, beginning as early as possible in the spring (April 24th), spring wheat, barley and oats were sown. With spring sults. With spring in abeyance until the crop is established are uot used, fall sowing is preferred. Three anh
three-fourths tons of hay have been obtained th threefourths tons of hay have been obtained the
first year from fall-sown crops. The fact that first year from fanding on undrained heavy land no method less than 41 tons of hay the first year surely ought to impress farmers in the surround-
ing country that alfalfa, the queen of the hay ing country that alfalfa, the quen out much of
crops, may be widely established without crops, may
a struggle


THE FARMER'S ADVOCATE

## THE DAIRY

| Cost of Milk Production. |
| :---: |

Cinm Mon




 per it, fat, varying from 22 to 30 cents. As I
naturally want to keep as much milk as possible at home, a fairly rich cream is skimmed, contain inc irom 25 to
altout sis sevenths of the tetal quantity of milk

 the perioll under consideration No. dowht in

 Vach milking is weighed and recorded; andl and
feed is weiched and recorded whenewer " chance

$\qquad$
$\qquad$

| alue of milk- | 230.38 |
| :---: | :---: |
|  |  |
| (Being 816 lbs. sold, and 4\% |  |
| fat from 2.400 lbs . milk fed |  |
| calves and used in home.) |  |
| 19,162 lbs. skim milk | 38.32 |


| 19,162 lbs. skim milk........ | ${ }^{38.32}$ \$264 |
| :---: | :---: |
| Total profit | \$1.51 |
| cwt |  |

Net profit per cwt.hargral
How Much is Time WorthI have read with much iterest of of mik. It
n the cost of producing 100 pounds
s an old saying that fikures to not tie, but it is



$\qquad$

$$
\begin{aligned}
& \text { he values his time at only ten cents per hour, } \\
& \text { with the nse of a crean separator thrown in. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { which pan out toto or } 50 \text { cents per hour. "wen } \\
& \text { latorers in the city can command } 25 \text { cents } \text { per }
\end{aligned}
$$

on the the the


GARDEN ORCHARD.
Expert Advice that Paid.
 in tumgur ivoatese and anthor series of arte", last spring, for in "The Farm er's Advocate old subscriber ter from an $\begin{aligned} & \text { County, who is delighted }\end{aligned}$ spraying this past season. The letter was a spraying this one, addressed to Mr. Cæsar :
: Do you remember my bothering you considerably early last spring about spraying, spraying machines, and material to spray with, and when to spray? I am very thankme. I iollowed the instructions as nearly as I could, and had surprising results. I
will tell you as nearly as I can how I treated my
the fine days of last March we orchard. The lo the loose bark off the trunks we hos. i purchased a London machine, and we
hoes.
sprayed the trunks with lime-water (Mr. Carey, sprayed the trunks with he I should have sprayed the whole top). Bixture and arsenite of lime, and before the blow opened we sprayed with the same lime with Bordeaux and Paris green. "My orchard was a soct till last spring. In
May wo plowed it, worked it down, and manured $t$ on top of plowing, and worked it occasionally sold the crop to a local buyer; the packers came on and put up 94 barrels, two grades : 89 barrels first, and 5 barrels seconds, and 1,100
pounds of culls. They turned out so many firsts pounds of culls. me 25 cents per barrel more than he was paying other people. My orchard is only
small, as this was an off year, and some of the trees did not bear, and some had very few on. When we were picking, the mixture could be seen
on the leaves. $I$ intend to spray next spring agatn.
the sast year we had a full crop. I sold to
than, and the packers put up just th same number of barrels. 94. two grales,
few tirsts.and 76,070 pounds of culls. I will tell you about two apple trees in my
orchard. They were both common fruit, with the except one still some common fruit branches. We spraved thes one The common fruit on the one we
the oner cone. That the
spratell was so nice in color and in size the othe sprayed was so nice in color and
pachers put them up, and the fruit on the ot
tree wis small. scabby little bits of things. think this letter "ill with spraying."

Apples Originated in the Horti cultural Division.

In the last three annual reports of ere published Experimental Farm, descriptions were published 14 more are described in the coming report. Since the year 1897, many new seedling apples
have theen fruiting here. The first of these were have heen irmuting here, the seed having been imported from north of Riga in Russta, in 1890, and began to fruit in 1897. Few of
 us. in Fastern Canada, but a number are being theil hardliness. In 1898, seed was saved of iruled
about

A P. E. isiand Potato-growing
Experiment. interest in 'When amard hy a representative of
Montreal.
"The Firmer's Anocate,
 The cose which he and his brother were making inconclusive, he said. and hoped no one would bee led astray by the partial and comparative
success they had met with. mo more important than the success were
The failures.
The causes of them required further investigation. The great difficulty they had to duced or argravated by various substances which have been added to the soil-lime ashes, shell Certain areas showed the result of ashes which
had heen in the ground for seventy years. This rall they were burying all this "manure" hy If this did not remedy the evil, then there was mo use, so far as he could see, contending further With the impossible other soll must be sought he said, was to find out what any given soil was The theory of rotation of crops violated this Principle, by asking the land to produce crops
for which by nature it was never intended. Besides, manure which would help one crop, was fatal to another. For example, potatoes res and quire a poor, grain and grass will not thrive. He in which grain and grass will not thrive. He too heavy and rich for potatoes, and it might was necessary to select
sonable, and the agents took as
a consignment as if it were their
The practice has been to exclude rigidly barn The practice has been to exclude rigidly barn-
yard manure from the fields, and to employ comtuercial fertilizer instead, using the same ground would appear to be a lack of humus, it is proposed to supply it by one crop of clover or by seaweed. They compound their own fertilizer basic slag, using about 800 pounds to the acre, which costs $\$ 16$. Their experience with the Bordeaux mixture was inconclusive and unsatisfaclory. Indeed, they had serious doubts as to ever. Tkey think that success lies primarily in the selection of seed; that is, of tubers growing under tops to which is attached the original set which had been planted in the spring. If this evidence that there were the elements of rot in the potato, whether it could be detected, or not. Note.-Here, again, an unwarranted
ment has been made. While Dr. Macphail may have obtained no results from Bordeaux under his conditions, it certainly is of very great value, it properly applied, in combating blight and th the late tight For certain other forms of rot it is of no avail-Editor.
The farn where these interesting experiments are being carried on is situated in the thriving of the Prince Edward Island Railway, 20 miles from Charlottetown. The property consists of 75 acres, and is in close proximity to wigg Sta In this experiment, select tubers only were used for seed, after being treated with formaldeA planter was used which cut the sets and

 uted the fertilizer
in the drill close
io the sets, where the yets, whire
the yound plants
could get access to t as soon as they
wero able to use it. The moulding atlachment made up were three foet
apart. The culti-
vator was used beapart was used be-
vator ween the rows be-
twee fore the plants
came up, and the
ground was kept ground was kept
stirred
frequently
to kill weeds and reags gave a moisture. deal of trouble, but
were kept in were kept in
check by a plenti-
ful use of Paris The potatoes
Hereford boll. A Royal champion.

Note.-In the matter of rotation, Dr. Mac-
phail has, we think, stated his principle much too phail has, we think, stated his principle much toc
broady. As a general thing, rotation is of very great benefit, and only in special cases is it jectionable. Even in these, the benefits of a-
carefully-chosen rotation usually outweigh the ob-carefully-chosen
The potato, he said, was at once the easiest and most difficult to krow the most profitable, and the most liable to end in loss. That was why it was so interes was aiso the most pleasant or the most disagreeable work on the farm-pleasant on a sunny september day, with white, clean poto the acre, and worth 55 cents a bushel in the market; but very unpleasant on a
day scabbed and rotten, and fit only for "feed."
" shen curminr is made " pleasant," the boys will stay on the farm. phail was asked, "would you advise farmers decote more attention to growing potatoes" Farmers are receiving so much," he replied, $\because$ that 1 should hesitate to add to their hurden;
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Wr. Wacphail said that the facilities for ship-
wint hy rail and steamer from Prince Edward

$$
\begin{aligned}
& \text { with an Amerian The } \\
& \text { gging machine. } \\
& \hline \text { Tetating the potatoe }
\end{aligned}
$$

and a Canadian potato-digging machine. ormer did excellent work, leaving the potatoes n rows from which they were easily and quickly fathered. This machine tian-made, also a good nachine, when some weak parts are strengthened, was operated with two horses.
Only white potatoes were grown. Varieties ncluded Green Mountain, Carman No. 1, Royal kidney, Orwell Square, and others. The aim in ay selection the to produce ideal table potatoes ertilizing and also to produce them in paying quantities
For shipment, the tubers were packed in boxes holding 75 pounds each. A rigid selection was made, rejecting all that showed any Montreal, and aood market was found for themfoundland, and sold () the Government, to be distributed for seed. To extend the acreage, next year's preparation has icen made by sowing peas and vetches in
June on old sod, which has been plowed down in June on old sod, which has been plowed down in
actoler, and the land well worked up with disk The vields obtained were very good, when we The yields obtained were very crop this year was very little over hall an aver age one. forward with confidence that Dr. MacWe look forward with coto, and the experiments he is carrying on, will be of great benefit to our farmers, as a man of the Doctor's scientific knowledge cannot fail to get some new and useful
inleas that will make potato culture more profitinleas that will make potato culture more surer one, able on we succeed in combating the blight, scab,
THE FARMER'S ADVOCATE FOUNDED 1866 far, Ittle or no thought has been given by grow- were delivered, discussing the topics brought up. given
discriminating markets, such as Boston, New York Successiul," constituted the subject of the first and Montreal, our potatoes are classed down, and have to take
potatoes of
Value of Potato Spraying.
 subjects that proved especially interesting, were
some of the topics threshed out. Addresses were This last season, plots of potatoes were ar rangeal Farm, Ottawa, for spraying tests to con-
mental
trol hbicht trol blight. 272 bushels per acre; a second lot was un-
treated, and gave 125 bushels per acre; a third treated, and gave 1 lot was treated with the soda-Bordeaux mixture, lot was treated with the soda-Bordeaux mixture, was not treated for blight until after the first
August, and received but one application August, and received but one application
Bordeaux: this lot yielded 224 bushels p Bordeaux; this lot yielded 224 bushels per
acre. From this work, it is seen that it pays
handsomely acre. From this work, it is seen that it pays
handsomely to spray with Bordeaux to prevent
the ravages of blight, and that in localities the ravages of blight, and that in localities
where blicht is known, one may confidently exwhere blight is
pect a full crop yield where no treatment is
given. 1t. further shows that, unless the season given. It further shows hat, uncess to spay three or
is unusually favorable, it pays to spray
four times in the season. However, if one fails four times in the season. However, if one
to spray early, one treatment about the first of August
THE FARM BULLETIN.

$\qquad$ tinuation Class," etc. Experiences in co-
operation were also given by the Cluls in the operation were also given by the Clubs in the
matter of getting supplies and buying good seed. Aone of the delegates were enthusiastic in cofrom the local merchant. Egg-circles formed an important part of the discussion.
One important result of the conference was the realization of the benefits of working toKether, and the desire that similar conferences
be held annually. Provision was made for the formation of a central committee of the clubs, doubt that the members of this conference will

## A Conference of Farmers' Club

 Officers


| Ontario Crops Goo |  |
| :---: | :---: |
|  | following statements give the area and |
| yields of the principal field crops of Onta |  |
|  |  |
|  |  |
| special regular |  |
|  |  |
| regular partmen |  |
| Fall Wheat.-743,473 acres vielded 19,837, 172bushels, or 26.7 per acre, as compared with 15,- |  |
|  |  |
| 967,653 and 24.1 in 1909. The annual average |  |
| cre for 29 years was 21 |  |
| Spring Wheat $-129,319$ acres yielded 2,489 83 bushels, or 193 per acre, as compared wi |  |
|  |  |

## Horticultural Exhibition and Conventions.

## Bright Outiook for Ontario <br> Fruit-growing.

| Prosperity characterized the appearance and pervaded the tone of the discussions of the On tario Prult-growers, assembled in fifty-first annual convention at Toronto last week. High prices, consequent partly upon the very poor crop of apples produced in the Province this year, had something to do with this condition, ments, such as that Canada could market one hundred times as many apples as she is now doing. Mr. ('ase, the New lork sitate delerate. who has 1 II) acres planted to fruit, and has made at least fifty thoustand dollars at fruit-raising in the found by his swstom of thencerres. he could not ter hand, making dollars a bar as apples ought to bring Instances arger price bed the accepted a thousand dollars an acre for a successive perion of years. "The Farmer's Advocate " orchard it will be remembered, paid $13 \frac{1}{3}$ last year that valuation, after defraying an exceptionall be cited from other quarters, and, while these cases are no more representative of average con ditions than is the twenty-thousand-pound pro duction of a phenomenal cow, still they indicate the hirg-water possibilities of the business when managed with expert care. And expert care is the order of the day. Profits from neglected chards are becoming fewer and smaller. chardist oi the future, whether a farmer fruit specialist must be unene season has demonstrated more conclusivel many localties it made all the difference latwern |
| :---: |




The "Baldwin House" at the Apple Show.
leaving a profit of $\$ 1,560$. The mineral constituents seem to have an important infuence on
the flavor of the fruit, and have been thought, althe flavor of the color, though Professor Harcourt does not consider th

ORCHARDING FOR PROFIT.
The weakest part of farming to-day is the ilure to keep boort., said B. J. Case, Presient of the New York State Fruit-growers' Association, and himself an extensive commercial fruit-grower, of Sodus, N. Y. Mr. Case has 170 acres of all kinds of fruit, except berries. He
does not want these among his trees. The time does not want these among hes we can grow fruit has passed, hers grew it. To-day we must spray and cultivate our orchards, and small fruit among the trees hinders these operations, besides taking moisture and plant food from the trees, of hands was requested from all men present who could tell cxactly what they had made in returns and profits fronr. an orchard. The inv three hands. He then proceeded to explain his system of timecards, by means of which he keeps track of the labor bestowed on every crop he raises, and is,
in this wav, able to decide which ones pay. These in this way, able to decide him out of grain-growing years ago. Ten dollars an acre was the best he could make out of wheat; barley was
a little better ; he didn't make anything out of his corn, vut his apple orchard yielded him from $\$ 600$ to $\$ 800$ a year clear profit

TRIMMING
The system of trimming old orchards in such a way that in the center there is a circle 10 or
15 feet in diameter bearing no fruit, was criticised by Mr. Case as seriously defective. A cised by Mr. Case to cut off the side limbs and send the long branches out further and further Now, a bushel of apples five feet nearer the
center of the tree is not nearly such a strain to center of the tree is not neary suctromity of the long limbs, so his practice is to haul in the diameter
of these nld trees, and force the bearing wood of these old trees, and eaving a few suckers in in to the center, by leaving a
the center of the tree, and cutting off the limbs which reach out farthest. It is possible to draw in the diameter of the tree three feet a year. H
pranes all winter, when the weather is mil pranes all winter, when the weather
enough. To protect the ends of the larger limbs
he uses

20 by 24 will not crowd until fifteen years of age and if they commence bearing at seven years that gives a chance for eight crops of apples. He leaving the rows 31 feet apart, at which dis tance they should be good until twenty-five years of age; then, taking Intercropping an orchard, Mr. Case considers about like swapping dollars ; you put a dollar in in plan is to sow Mammoth clover as a cover crop about June 15th, and plow it under in the spring. If a little feed is required for the horses, a strip of this clover growing may bo the rows of trees in a yr. Case emphasizes the advisability of sowing the cover crop early, late cultivation of a bearing orchard A tree is militate agsinst color on the fruit. A tree is
like an animal-during the period of incubation like an animal-during the perion frowth it wants the best of feed in a readily assimilable form. During the months of May and June the tree wants plenty of plant food to stimulate growth. Provide this by early and thorough cultivation, then sow the cover crop and mow it a couple of times before fill, thich cultivate too late wade the fruit, preventing it from coloring as it should. It may increase the yield somewhat, but orchards handreat harvest of well-colored fruit.
chemist to analyze
"We sent some apples to a chemist to analyze For fifty-one years, said W. H. Bunting, Chair he reported that the flesh of the and phosphoric man of the Transportation commen preachink the coiture, and


Norfolk's Exhlbit at the Ontario Horticultural Exhibition, 1910
for swne vews back your Transportation commit.
tee has been trying to improve carrying con ditions. meet ing with some success. Rates hal leen one of the tirst bodies to move for the ap-
was on
pointnuent of a railway conmission. There are, however, still grie ances, ne of which is the de lay in forwarding freive us schedtles of say four
roadi companies wit give
and ainnipes. twnety four hours and a hair days to Winnipeg, t wnety four hours
to Montreal, and twelve hours to Toronto, but to Montreal, and twelve hours to Toronto,
these are not adhered to For example, it was these are not ade early part of the season to re quire seven, eight or nine days for shipments to
the West, thirty-six or forty-eight hours to Mont real, and eighteen or twenty hours damare the shippers, piling up receipts irregularly at th markets. So much for the freight end of it. Ah
all are aware, it is not possible to handle the all are aware, it is not possible to handle the
whole of our fruit by freight, and a good deal of whole of our fruit by freight, and a good deal of
it must go by express. The express service is
not wholly satisfactory, one company, at least, apparently making no great effort to improve its service. Mr. Bunting has, in hrivate trade shipping by express, but finds much difficulty and loss by piliering. He was finally moved to ad dress a aission. setting forth the grievance an pointing out that consignees sometimes refused to accept the goods, while in other cases they in any event the pilfering dissatisfies the cus tomers and disorganizes the shipper's business The Chairman of the Commission replied, agree ing that something should be done, but pointing
out that the matter would have to be dealt with by Parliament, as the Commission had no authority in the premises. Mr. Bunting also addressed letters to Mr. Bryce, of the Canadian Express unsatisfactorily
Letters were then read from customers ac
knowledging receipt of fruit shipped to order which arrived showing evidence of serious depre dation; in one case all the peaches on the to
layer of the box had been removed, and one packin age of grapes had only a single bunch left. In another case, fruit sent carefully packed and cov ered with papers and leno, arrived with the
papers and leno torn, and considerable fruit re papers and leno torn, and considerable frent an
moved. Teaches with the baskets broken an the handles off, were received by another customer after twelve hours' delay in notification of
their arrival. A fine shipment of melons had seven fruits knocked to pieces by rough handling seven fruits knocked to pieces by rough handing
In a letter from Mr. Bryce, replying to the com plaints, he laid the responsibility mainly at th vious that fruit which had been thrown into the baskets, us he had seen it done by many grow ers, Would show slack upon its arrivar been care fully packed, and should have arrived in goon tomers who received their fruit without pilfering,
and found it satisfactory in every respect. Eviseveral inembers of the Association. One man saw baskets thrown two or three feet at Welland
station, and in other cases stacked up in such a way that the fruit was almustine reported hay ing seen two or three ho pileci, thrown together into a jam by the shunting of a car, and so badly smashed ul simply thrown together into a heap by the at
tendant. Another man saw crates of berries kicked about, and, writing to the district arent, be taken into consideration, which, of course, was be taken in
a conmittee should be of Winona, sugpested that tion, and authorized to make a test case or two
He charged that, when just complaints were matlo the company kept dragging the mater out i, writing letters until the shipper got tired o
pressing the matter, and let it go by default. He remarked that people did not require to accept
fruit in damaged condition from the express com panies, but might send it back to the express
company, lodging complaint, and motifying the shipper. A. E. Sherrington submitted that thu
express companies should be required to deliwer that in mane parts of Toronto it cost more to get fruit delivered than to get it to the station.
In Toronto, it seems that the express companmes
$\qquad$ was

## resss companies

The following resolution was passed hy the spectially call the attention of the sexpress com serious loss sustained by shippers andl consumers if fruit on account of the pilfering from express handing. which results in the troken careless aged condition of the packages; these evils having become so notorious as to constitute a positive injury to the business, which curtails consump ion and exposes the shipper to a serious loss, for which co
the company

POOR FRUIT IN OPEN PACKAGES.
$\qquad$ Caston, of Craighurst, who pointed out that a good many shippers were sending trashy fruit in
barrels without heads to the West, thus demoralbarrels without heads to the West, thus demoral-
izing the market to a certain extent for good fruit. McNeill, Chief of the Fruit Division, pointed out, in reply, that the inspection arready covers open packaces in this far, that the fruit must be
truly and fairly faced. It does not require, however, to be graded and marked according to the standard for ciosed packages. The matter was
discussed when the Act was drafted, but it was considered that, to make it apply to open packages in the same way as it did to closed pack-
ages would interfere unnecessarily with local trade at various points, as a a good deal of fruit is taken into the Toronto and Montreal markets and other cities in open packages. matter would right itself, as the shipping of this trashy fruit
lime-Sulphur versus bordeaux.
$\qquad$ most impo:tant discussions of the convention. It wad found orcharis sprayed with each material with fruit practically free from scab, while some siffayed with each material had airty per cent lack of thoroughness, not spraving at quite the right time, or to some other defect of practice.
W. F Kyld reported results from the Government demonstration orchards, of which he had charge ing, just wher the leaves were peeping forth, wa all done with lime-sulphur, one part concentrated Solution to ten parts water, afterwards reduced
to 1 to 20 , for far of injuring the foliage. No sorry he had not continued $1: 10$. The second spray ing, just atter the
with lime-sulphur, $1: 40$, except on one-half each of two orchards, on which Bordeaux was used.
No difference was to be seen in the cleanness of the irnit, nor was there any rust. The apples
graded 85 per cent. of No. Only two sprays were given, but they were very thorough. For
the first, about four gallons was applied per tree,
and and, for the second, after the petals had fallen,
about five gallons per tree. the Niagara Brand Sprav Co., whose orchard was sprayed very thoroughly this spring with
lime-sulphur and arsenate of lead, reported that from one cight-acre orchard, 1,100 barrels o
fruit had been packed, and, notwithstanding tha a reward had been offered for any apples affected with scab. only two spotted ones were found as clean. No doubt, Bordeaux will control scab,
but there is the disadvantage of the russeting which it sumetimes causes. lime sulphur seems cannot be secured by spraying with Bordeaux. enulle yoll to added for the codling moth, will lass cost for spraying than when Bordeaux is spring four times: first, hefore the huds opened
with fime sulphur. 1 to 10 or 11 . afterwards the rate of 1 to is. For codling, moth, 2 pounds Watur. Wht or ten gallons of spray mixture trow llyh pressure and a rather coarse nozzle

$\qquad$

tried in the remainder. There was little difi Cungicites in controlling the scab of the in the orchards were the apples absolutely clean, chard sprayed with Bordeaux there appeared one time to be a good deal of spray injury,
the owner of a three-acre block of McIntosh came into the Agricultural Office about the ti mixture. However, he afterwards sold his or ior a good price, and the buyers apparently not notice the injury at all. It seemed to maturity. It was from this section that the y Intosh apples came that went to British Colum

The last speaker announced to discuss this subject was L. Cuesar, Ontario Agricultural
Collece, whe dealt with it authoritatively as a master of his subject. We submit Mr. Cresar s Conclusions, based on experiments in 1909-10, and spondence, etc.:

1. Either Bordeaux mixture or lime-sulphur will thoroughly control the ordinary fungous diseases of tho orchard, one, apparently, being just , One remains on the foliage and fruit just $t$ as well as the other
There is very little difference in the price
as a summer spray. Bordeaux mixture, 4-4-40

$$
\begin{aligned}
& \frac{1}{2} \text { cent for lime } 4 \times 5=20+4 \times=2 \text {, plus about } 3 \\
& \text { cents for labor in preparation, equals total of } 25
\end{aligned}
$$

$$
\text { cents for labor in preparation, equals total of } 25
$$

$$
\begin{aligned}
& \text { cents per barrel. Commercial lime sulphur, at } \\
& \$ 8.00 \text { per } 40 \text {-gallon barrel, which is equivalent }
\end{aligned}
$$

$$
\begin{aligned}
& \$ 8.00 \text { pr } 40 \text {-gallon barrel, which is equivalent } \\
& \text { to } 20 \text { cents a gallon, costs, when wise the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { strength of } 1 \text { to } 30 \text {, about } 27 \text { cents per barrel of } \\
& \text { diluted spray; and when used at } 1 \text { to } 40 \text {, costs }
\end{aligned}
$$

$$
\begin{aligned}
& \text { diluted spray; and when used at } 1 \text { to } 40 \text {, costs } \\
& 20 \text { cents per barrel. Nothing is allowed for } \\
& \text { Nots. }
\end{aligned}
$$

$$
\begin{aligned}
& 20 \text { cents per barrel. Nothing is allowed for } \\
& \text { labor of preparation here, because practically }
\end{aligned}
$$

none is required.

$$
\begin{aligned}
& \text { 4. Wherever there is San Jose scale in the } \\
& \text { district, or where red spiders are abundant on } \\
& \text { the folinge }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the foliage, a fruit-grower will act wisely in } \\
& \text { using lime-sulphur, instead of Bordeaux mixture, }
\end{aligned}
$$

as a summer spray, in addition to the spring ap
plication of this mixture. It would also be well

$$
\begin{aligned}
& \text { plication of this mixture. It would also be well } \\
& \text { to use it in the same way if the orchard is badly } \\
& \text { infested with oyster-shell scale, because the sum- }
\end{aligned}
$$

mer applications are quite valuable against this

$$
\begin{aligned}
& \text { pest } \\
& \text { 5. Bordeaux mixture is much more inclined to }
\end{aligned}
$$

$$
\begin{aligned}
& \text { russet the fruit than lime-sulphur properly di- } \\
& \text { luted. In some districts very litue damage is }
\end{aligned}
$$

$$
\begin{aligned}
& \text { scale insects or red spiders are troublesome, it } \\
& \text { makes very little difference which wash is used }
\end{aligned}
$$

$$
\begin{aligned}
& \text { makes very little difference which wash is used } \\
& \text { In many districts, however, Bordeaux injury to }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Waite, of Washington, IV, Coth of whom have } \\
& \text { been studying this problem, state that of late }
\end{aligned}
$$

$$
\begin{aligned}
& \text { years, from some unknown causes, there has been } \\
& \text { a decided increase in the amount of russeting of }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ture. The injury to the foliage often takes the } \\
& \text { form of small, circular, brown spots looking al } \\
& \text { bose }
\end{aligned}
$$

$$
\begin{aligned}
& \text { form of small, circular, brown spots looking al } \\
& \text { most exactly like the disease known as Leaf } \\
& \text { spot. Both these men seem to think that con- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { spot. Both these men seem to think that con- } \\
& \text { centrated lime-sulphur, whether conmercial or } \\
& \text { homemade, is likely to supersede Bordeaux mix- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { homemade, is likely to supersere Bordeaux mix- } \\
& \text { ture in the near future on account of this in- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { ture in the near future on account of this in } \\
& \text { jury. When in Michican, this October. I wisited } \\
& \text { a famous apple orchard at Fennville, and watched }
\end{aligned}
$$

$$
\begin{aligned}
& \text { a famus apple orchard at Fennville, and watched } \\
& \text { the packers putting up the fruit. The apples }
\end{aligned}
$$

$$
\begin{aligned}
& \text { the packers putting up the fruit. The apples } \\
& \text { were very large, and fairly free from warms, but } \\
& \text { were so severely russeted that I could scarcely }
\end{aligned}
$$

$$
\begin{aligned}
& \text { packers said that owing to the unsightle appear } \\
& \text { ance, only a small percentage of the apples would } \\
& \text { ander }
\end{aligned}
$$

$$
\begin{aligned}
& \text { grade No. I. In cases like these. it is very } \\
& \text { clear that there should be no hesitation in using }
\end{aligned}
$$

PRECAVTIONS THAT SHOUIO BE TAKFEN IF
LIME-SULPHUR IS ISFD AS A SUM-

$$
\begin{aligned}
& \text { 1. Arsenate of lead is the only insecticide } \\
& \text { that we know of to-day that it is safe to use }
\end{aligned}
$$

$$
\begin{aligned}
& \text { eit her. In some seasons and localities arsenite } \\
& \text { of lime has been used without any injurious ef- }
\end{aligned}
$$

$\qquad$ he latter sprases of the sman. Paris green,
likewise, cannot low safels combunal with sulphur. ${ }^{2}$ The stremethe of lime-sulphor that should in my opinion. ions, 1 gal'on fuluteil with watw itw (if there
are no scal. insects in the orchamis, this may be
$\qquad$
$\qquad$
$\qquad$

II
noviculize 24. 1910




 strong for the conding moth st
time for the cectint mosults.
to 00 gives exellent
If n homemade concentrated spray is used on the foliage, it should be so contin four pound of sulphur in
barrel will for ast instance, if the formula used be
 and 40 gallons water, clear that, as with ordinary care, almost It is clear that, as with ordinary care, of the 100 pounds goes into solution, this shourd, therefore, make for summer use about 25
For spring use, each barrel shorrels of spray. For spring use. each barrel
bhould contain about 13 pounds of sulphur, so should thentabe 100 pounds sulphur would be
that the above
sutifint to make slichtly over seven barrels when diluted In conclusion, I wish to say that it would be of of strength could be set for the commercial washes, and stamped on each harrel, so that the being of uniform density. The standard might read from $1.300 \mathrm{sp}$. gr. to 1.32 sp . gr., or from
about 33 to 35 Beaume. The adoption of such
Then a standard would

ROOM FOR EXTENSIVE PLANTING. "Is the present activity in ore ordor was the sub-
orchards liable to be overdone ?" ject of a most heartening discussion participated
in by several growers, all of whom agreed with Robert Thompson that we are not growing nearly enouch fruit to fill our markets, and that
there is an opening for much more planting than is being done. of Forest, referring to the peach boom in Lambton County, attributed it largely curl-loaf. It was estimated that from one to two hundred thousand fruit trees would be planted in Laimbtun Mr . Thompson, the number of apple trees planted would be equal to that of the past ten planted would be equal to that of the past ten
years. Two or three delegates declared. opti-
mistically, that one hundred times the present quantity of fruit grown in Canada could be marwhole supply. Our own Western market was growing rapidly, the British market would take enormons quantities, (eermany would now and, in short, the prospects were painted in the most roseate hues, would be for first-class fruit. Poor fruit hurts OFFICERS.

$$
\begin{aligned}
& \text { Directors for the ensuing years were: Wm. Al- } \\
& \text { - }
\end{aligned}
$$ ord, Ottawa: Harold Jones, Maitland; Walter Dempsey, Trenton; W, H. Gibson, Newcastorn

Wm. Stainton, Oshawa; 1, A. Hamitton, Lorne
Park J. W. Smith, Winona: A. Onslow, Niagra on-the-1 ake ; Jos. Gilbertson, Simcoe; M
Johnson. Forest ; R. R. Sloan, Blythe; F. M Johnson. Forest; R. R. Sloan, Blyt, Sound
Tewis, Burford: Adam Brown, Owen Sour
Prof. I. W. Crow, Ontario Agricultural College. RESOLUTI NSS The tarmiresolation drated discussion, and had to
 atopted, it read: " Resolved that, in view
the possible negotiations with the United States
ner Fruit-growers' Association wish of any reduction in
therr unqualified disapproval of and import duties, without consulting a committee
appointed by this Association, the duties being tureci goods, and lower than they ought to be in wow of the fact that there can be no monop
ols combine in fruits. the price being fixe
.in athointely by the law of supply and demand
within the Nominion. Which contains ample ter inan. all the fruit the country can consume for cumbe be i. jured in the long run. and the trult
anducry can be extended in proportion to the Surbite at home. .



HE FAKMEKS ASMOAIK
ammand bornmer them in additional

In wew oif the crit success attending the re-
cent apple show in lancouver, the meeting was of the opmion that the time was opportune for show. and at com of an annual National was appointed to take up
the subject of holding such a show in Ontario STANDARDS FOR JUDGING FRUITS AT EXHIBITIUNS
It has long been recognized, sail Harold Jones of Maitland, speaking on the above subject, that
there was a wide diference of standards and of opinions among judges of fruit. Score-cards designed to secure uniformity have been tried, but
Endorsing the remark, W. T. Macoun, Horticulturist at the Central Experimental Farm, and chairman of the Kssociation's committee appointed to deal with
this matter. remarked that, owing to the confusion arising from want of a standard, not few exhibitors had become disgusted and quit exhibiting, or perhaps, successful ones had tried
again, and lost on the points which won for again, and lost on the points which won for
them before. A proper score-card would be helpful for a judge to have before him, even if he did not actually use it in judging. What is
needed is to educate judges and exhibitors. In Nova Scotia, the veteran judge, R. W. Starr, has educated them so that they know what points a good judge should expect. The standards recomas follows : Apules and Pears, sincle plates.-Form, 15 ;
ize, $15 ;$ color, $25 ;$ uniformity, $20 ;$ freedom Apples and Pears, single plates, seenlings-
 10; freedrm from blemish, $10 ;$ quality and Peaches, sincle plates,-Form, 15 ; size, 20 ;
color. 25 ; uniformity, 15 ; freedom from blemish, 25 ; total, 100 .
Plums, single plates.-Form, 10 ; size, 20 ; Plums, single plates. - Form, $10 ;$ size, 20 ;
color. 15 ; uniformity, $15 ;$ freedom from blemish. 20 ; quality, 20 ; total, 100 , 10 ; size, 10 color. 15; unitormity, 20 ; 100 -


Marchioness 19 th $=88442$ orn heifer, in dispersion sale of
Co. Meadowvale, Unt., Dec. 14 Grapes, single plates.-Form of bunch, 10
en bloom, 5 ; freedom irom implemish, 20 , Hatal, 100 . Collections of Apples, Pears, Plums, Peaches, Cherries and Grapes, on plates,-ritece $10 ;$ size,
blemish, 20 ; color, 15 , uniformity, 10; commercial value, 10 ; quality, $10 ;$ nomen-
clature. 5 ; arrangement, 5 ; season, 5 ; total, ${ }^{100}$ Barrels of Apples.-Fruit - Size, $10 ;$ color 20 :uniformity, 15 ; freedom from blemish, 15 ; Cexture and tlavor, 15 ; total for fruit, 75 . Pack-
12e Material, 4 , finishing, 6 ; total for package, 11) Packing-Facing, 6 ; tailing, 2, rack Total ion Pes Pruit-Size 10) Bums of Apples, Pears, Peaches.- 20 iniformity, 15 ; freedom from 420

packing, 25. Total for fruit, pachage and pack-
Some criticism was offered concerning the lack
of allowance for quality in single plates of apples of allowance for quality in single plates of apples, felt that the omission of quality would handicap Ontario fruit in competition with that from the Ir. Nacount in an interprovinceason it was not Mr. Macoun explained that the reason it was not
ncluded was the difliculty, in judgin, of considering quality in a class of say 20 plate exhibits of apples. it was finally decided to adopt the proposed standard for one year. The many other valuable papers and discus special word of commendation is merited by the demonstration of spraying with hand and power pumps of the eading makes. very effective exhibit of the Niagara Brand Spray Co., which showed not only spray pumps, but a large quantity arsenate ford other features demonstrated were the packing of boxes and barrels, with

Ontario Beekeeping Flourishes. The opening session of the Ontario Beekeep18 th, was largely attended by officers and mem hers of the Association. In his prosidential ad tario, we have again been favored with a fa crop of honey, of good quality, and have received fairly satisfactory prices. The extreme heat o
part of June and July hurt the clover-honey part of June and July hurt the clover-honey
vield considerably. The demand seems to be in creasing, the credit being due to the demand from the West, one beekeeper having received an order
for five carloads of honey from one tirm, a thing for five carloads or honey
" From the yearly reports received through the Honey-crop Committee, a fair estimate of the annual production of honey in this Province
and noteworthy feature in the advancement of our in dustry to-day is that expert beekeepers are han dling in home
./ The greatest detriment to our advancemen s foul brond, surely. Iet the best men possible be appointed to the positions of spreading knowlpositions of spreading now
edge of beekeening in gener-
al, and eradicating foul al, and eradicating
hrood in particular. Our brood in parcicular. Our
Provincial Apiarist is now established at the Ontario
Arricultural College, Guelph, Agricultural Conere,
where he has facilities to assist beekeeping as never before.

The membership of the creasing. ${ }^{\text {A }}$ The plan adopted for
 suggest topics, so there suggest topics, so the something to suit
would be some the different parts of the
Province. Conventions help Province. Conventions help
in a practical way by the in a practical way by the
many good papers read, and
discussions upon them, and by practical demonstra-

Mr. Dickinson, of Lan caster, in his address, "Les sons for Beginners," advised
going slow, say, with one going st, at, most, half a doz-
two, or
en colonies ; that a beginer should always start in th spring, rather than the fall,
so as to put off possible winso as to put off possible win-
ter loss for another season. he always puts his out ocleans bottom boards, to to prevent mixing. He cleans bottom boards, the save bees the trouble. He advised putting the
extracting supers on early to keep the broodextracting super for raising young bees for the cloverhoney harvest; not extracting the honey until ped; using the system of tiering up the supers; ped; using the system of the bee-escape; cultivating the bee-escape habit, no matter She
any no; feed ing the bees in the last week of September, or first week of October, all they need, pound being the least a large colony as upon their condition in the fall depends their fitness unfitness for the next season's work

$$
\begin{aligned}
& \text { MAKING QUEENS TO ORDER. } \\
& \text { H. Gibald, of Claude, in his address on } \\
& \text { H. Sibyer with Clark's System of }
\end{aligned}
$$ Y Year's Experience with Clark's System of Queen rearing, said : "" Before describing in detail 2ueen rearing, said: as outlined here last year, I Msey. Trenton: Firnon whawa.

THE FARMER'S ADVOCATE.

De made from beeswax. A small, thirty-hoursold larva may be removed from its cell, where,
undisturbed, it would have hatched a humble undisturbed, it would have hatched a humber
worker bee. Thus removed and placed in the
artifial worker bee. Thus removed the bees on what is
artificial cell, and fed by
known as royal jelly,' will produce a queen caknown as royal jelly, will produce a queen
pable of producing thousands upon thousands of
her kind her kind." Mr. Sibbald has been very succestro ducing them to nuclei for use in his own yard He has succeeded in getting a large propo
of his artificial queens matured and laying.
of his artilicial queens matured and
Morley Pettit, Provincial Apiarist, $O$.
Guelph, addressing the convention on ". The Large Exhibition and the Beekeeper," gave it as
his opinion that the large exhibitions have his opinion that the large exhibitions to the
brought and are bringing great benefit to beekeeper. They come under the head of that broad term, ". Advertising,"" which has been such a science in the distribution one thing to produce a good article; quite another to persuade the
public that they need it. The prospective consumer is attracted by an attractive display of become such by seeing the honey display at some large exhitition. The handling of living, mov ing bees on combs by an operator, while he ex-
plains the life-history and habits of the bee, at plains large exhibition, enlightens and awakens an interest in the bee and its product. Ocular
demonstrations of bees and bee products at large exhibitions are also an education to the men and them proper attention
There is room for valuable work for com-
petent persons right along this line in regard to petent persons right along this line in regard to
treatment of disease, proper ripening and han dling of hones, method of selling, etc. All of these points could be explained to crowds of people daiiy by lecturers at large exhibicions,
the benefit of the specialist. The Ontario Bee the benefit of the specialist. Adeavor to devise kepers Assoclation shan to induce beekeepers to put up good displays of honey at the c
well as at the greater exhibitions.
It is true that honey prices are advancing, It is true that honey prices are advancing,
are those of other goods in various lines, but
they may be still further advanced by the means they may be stil
aforementioned.
" Beekeeping for Young Men," was the sub-
ject ascribed to Homer Burke, Highland Creek, ject ascriber to Homer Burke, Highland Creek,
who showed the vast difference between the
young man of to day entering this field of beyoung man of to-day entering this field of bee-
culture, and the young man of past days. At present, beekeepers are conducting a business of have done years ago, and prices are increasing with the increased output. Good honey only advancement in prices. Put none but good honey on the market. An averace of three supers on each strong hive at a time gives an
opportunity for ripening honey well before it is extracted, assuring its good quality. Queens should be rased from the best stock.
The Government is awakening to

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that beckeeping is one of the most promising of 
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our industries, and it behooves the young bee-
keeper to put the bees into the fields to collect
the nectar and the money.
BEEKEEPING BY WOMEN.

bees, Miss Robson asks: What are some of th
beekeeper soon learns to control swarming in
have to overcome is heavy lifting, and unless sh
is fairly strong she should not enter this field
Outside of heavy lifting, there is no reason wh
a woman might not succeed as well as a man in
running an apiary. The fact that all the work
is done in the fine weather of summer should
woman might easily become a very successif
queen-rearer, and make a light iob of beekeeping
with a heavy bank account in the prospective.
The seloction of oflicerrs resulted in the election
of W. J. Crair as president, Dennis Nolan as
1 st vice-president. I I. Ayer as 2 nd vicepre-
dent, and P. W. Hontmetes reelected as secretar
treasurer for the Association.
FOUL BROON STILA WITH
The reports on foll hood have but one stury
to tell : We have it with us yet : that is. Ameri
can foul brood. A clariun mote was struck in
Mr. Byer when he said. in regard to Furopeant
foul brood: "I am not in ulamimst. Wot I want
the differences in some of the leading varieties the differences in some provinces, and it was
when grown in different Pres did not have to take
evident that Ontario apples dided a few cases of second place. They also showed a rew cases of Eeaches similar and they were still in good condition. The county plate exhibits of apples have been
discontinued, as the prizes always fell into the discontinued, as the prizes always elt such a big show of plate apples as before. There were not quite so many entries in pears, but the quality was good, compared with that of other years. The box pears
packed in the pear boxes.

The flowers always attract much attention, and this year were at their best. It was pleasing to see a few new names annong the exhibitors. The chrysanthemums aw the florists can produce such immense and perfect bloom. In these, the Dale Estate, Sir H. M. Pellatt. T. Manton, and Jennings, carried off the chief honors. T. Manton
had a very fine exhibit of orchids, which deserved had a very fine exhibit of orchids, whichaeser arly
ly won first prize; and Dunlops were particula
succassful in their exhibit of roses. The other ly won furst prize, anh in their exhibit of roses. The other
successful
exhibitors deserve mention, for their exhibits won exhibitors deserve mention, for their exher
many prizes, and helped to swell the great pro many prizes, and helped to sade everyone de
fusion of bloom, which made
sire one of those immense chrysanthemums, frakrant roses, or delicate orchids. The floral designs and the eight decorated din
er tables always attract the women, and come ner tables always attract the women, and come
in for their share of comment. The tables this year ure judged by the visitors, who vote on the
different tables, and the table receiving most different tables, and the table receiving most
votes is awarded first place. Vegetables compared very favorably with continued their interest in the Exhibition, and have added their share to its success. The vege
tables were clean and well grown. The squash tables were clean and well grown. The squash were particulary large, an an in some of the former years. There are still a large number of growclass. great part the bees play in making his crop. A number of very fine displays of the products of the apiary were to be seen.
The women deserve especi
part in making for the success of the show. The part in making their work cannot be too highly emphasized, and we look forward to much more
of this work being done in connection with the of this wor The Women's Institute exhibit of preserved fruits was in the hands of Miss Shuttleworth and Mr. Woelard, and these ladies dis sominated and in regard to methods of canning fruits and vegetables, and recipes for serving them in an inviting and appetizing way
The directors of the exhinition are to be con
gratulated on the high standard to which the have brought this exhibition, and it is playing no little part in the education of the exhibitor and the public to the possibilities that lie before
them in their particular line. This old Ontario them in their particular line. This old Ontario

Heavy Fines for Milk Adulteration ". Why, hello! What are you doing at a fruit
show ". waz a question asked G. G Publow,
Chief Dairy Instructor for Fastern Ontario, at Chief Dairy Instruc Exhibition in Toronto last week. "Oh, $\mathrm{I}^{\prime} \mathrm{m}$ just here seeing the fruit which tempts our cheese-factory patrons to skim the cream off their milk," was the reply. Fred
Streit, the prosecuting oflicer in Eastern Ontario, had twenty-three cases of adulteration before the magistrate at Plantagenet the other day, there
heing eleven from one factory. Seven hundred ciollars was collected in fines, the magistraters

## Coming Events

International Livestock Fxposition, Chicago,
Smithfield Fat-stock show, London, Eng., DeOntario Winter Fair, (iuelph, December 5th to 9th
Maritime Winter Fair. Amherst. N. S., December Toronto Fat-stock Lhow I'nion Stock-vards, De Fastern Ontaric, i, ive siock and Poultry Show, Ottawa, January 16 th to 20 th, 1911 .
Ontario Corngrowers'
Exhibition, Chatham,




HE RATVIKKS AOVOCATE

NOVEMBER 24, 1910
The Conference of Representatives of Farmers' Institutes and Farmers' Clubs.
the Ontario Women's Institutes, the Beckeepers' Association, the and various other of the Horticultural Exhibition, during the $\begin{gathered}\text { resentatives of the Farmers' Clubs and the }\end{gathered}$ Farmers' Institutes of Ontario held Many of four sessionsits of these organizations from various parts of the Province were present, and, while all the leaders were not able to come, there were no lukewarm enthusiasts forward, so that the hundred to one hundred and of every mo ment. They were essentially experience mect ings. Institute speakers, secretaries, disappointments of the previous year for airing and curative treatment; men who had found new and pront-
able methods of working presented them for the
The men of benefit of their fellow workers. The men of
vision and discernment in attendance at the meetings could readily sort out from the many
deas presented numerous splendid suggestions for their incoming year's work.
Opportunities. Superintendent Putnam, in the opening ad-
dress of the conference, admitted the failure of
the Farmers, Institutes in getting hold of the
people generally, and of the young people in par-
ticular He pointed out the splendid advantages
of the local clubs, which, in their frequent meetings
and interchange of ideas have a force beyond the
regular Institute, and illustrated it by the
rest and interciange and illustrated it by the
regular Intitute, and
Mreat success of the Women's Institutes. Putnam emphasized the tasks of increasing pro-
duction, improving farm life, and regulating the markets, as amonyst the thines which Farmers
Institute workers must aim to accomplish. Co-
Incoration must be exercised, if farmers will oboperation must be exercised, if farmers will ob-
tain the full advantage of their investment of
All lines of knowl cain the labor and thought. All lines of knowl-
capye must be called into service by producers
edge edge a preater extent; the specialist's contribu-
to
tions to knowledge must be turned to practical account. Local organizations must spring up iermanent improvement of the communities. The
work of the experiment stations and the colleges work of the experiment stations and the every
must be diffused by demonstrations into ever are chone, are the most urgent needs before in Frank W, Ward, a prominent Institute worke of the Institute, brought out many valuable
points. He emphasized the fact that Institutes should alwass instruct, and that the people and women better people, and broaden and enrich their lives, the fork State he state that the Institutes had raised the average annual yield of the dairy cow 40 per cent at if. con
tire state. Itike many other men at ference, he emphasized the importance
stitutc lecturer being a practical. succesful vork
 of the convention, strikingly strong addresses. INSPIRATIONS of the confer-
The most inspirational session of ocecties in Convocation Hall, on Toronto Unicersity Campus, and addressed by Deputy Filconer, of Toronto University.
iffer outlining the trek of the population from frellure of the Men's Institutes in their duty to
the country school. Addressing himself particularly to the women's organizations, he phy the
ant their task of developing and building
home. in the country, the vilagee and the town. and putting all on an equal footing, and Ir. Faiconer,
aition. carried his, audience from the petiness nic
hroader deeper. hacio
anmercialism to the hing whicl must institutes are doing. His address was arand He. He pointed out the necessity of ine anence in the development our homes should be Whit thinking people should take pride in them
 as our duty to pur thaysht ins an

## b.miltwl whl intuence mankind. He said: <br> Canadians Discuss Institute Prolo- <br> Canadians Discuss Institute Prolo

The interath: it wuch cassier for a boy to be protathly the most mitued point among the many caluable points made was that hie is tolerable marests; that it is not in the giving or autos, but by adding interest wo their lie, that lie in the work before them ior their doing. The Hon. Jas. Thuff. Minister of Agriculture,
addressed one of the sessions. emphasizing the splendal future fying immearate was being done Province. He pointed ontal flocks to restore the status of the sheep industry of the Province, and assured the heartiest appreciation of and the cotance of the agricultural prontems, far as in its power lies. a Crop improvement was treated prof. A. Zavitz, of (he. A. C. Het poecessary for crop improvement, but rather that this should be accomplished by selecter
This selection should be of the seed, and of seed from the entire plant of great importance. quality of the seed is of great producer, that the best for his conditions may
Zavitz showed the advantage of seed selection by
and quoting the results of experments shrunken seed well-matured vs. immature, sound vs. unso in se
all of which showed the advantage of core lecting se operations, and their vatue improvement, pointing out the many problem that have yet to be solved.

While the older Institute workers were aetin ting the failure of the discussions introduced by The District Representatives of Agricuture an the Farmers' Club leaders were of aty theld of the A. D. Campbell, irem stock-judging courses; of how in litule villages as many people turned out to these as appeared at the O. A. C. Short courses how they were intensely interested, He showed that wanted the work continued, was interesting such work, without the old men as well. They were learning by actual expering presented with ing new intereals. I. F. Metcalf duplicated the story with orchard work. H. C. Duff, of Peter boro, and J. H. Hare, of whitey in poultry readily the people were co-operath was with them. It is proving the entering wedge of improved methods in potury practical doing. F. C.
people are learning by Harmers' Clubs that are working in his county, improving the roads, the schools, new life to bringing in telephones, Mckenney, of Essex Co. and Ross Huff. of Kent Bridge P. showed and farmers were practicing in seed making from make. These young men are doing thinks. They perhaps took about they were full of optimism, for they are getting the hearrs of and Institute and they are already who have gone home without being impressed by procuring the tou stone which will bring success
Deputy Minister James, in a second address
俗 hrought oul forcibly the trum emat ration work talking is about ove the place of the old method of hiring a hall. getting the people in, and hem presenting a rattling good speaker, and ater hir another. were other good talks made, but space There were orther reference to them. Institutes urge upon the Government the advi ability of making a special branch the Farmers

Railway Passenger Rates to the Winter Fair.
Wrom all stations in Ontario, Kingston. Sha single fare for raturn tickets to the Ontario WinIur Fair, at Guelph. These tickets will be on rde until Friday night. December 9th. They are

At the fifteenth annual meeting of the internaheld in Washington last week; Canadians figured rather prominentls. Geo. A. Putnam, Superintendent of Farmers Insticutes in thee desiderata presidential address, emphasized three desidome and (a) Increased production; (b) a better (c) a less communit: life in rex ening of the all-too-wide margin which now nd the rices paid by the consumer. Local demonstration of improved methods was recommended ass an effective means of accomplishing the frst of these aims, and co-operation to accom plish the latter, especially along poultry, dairy and fruit-growing lines. Another notable ad dress was that of C. C. James, Deputy Minister of Agriculture for Ontario, Who endeavored once more to bring home to the rester helps the farm-
and town the fact that, whatever er to larger production and latity and uplift of sarily concribumunits. The possibility of adding two or three hundred million dollars yearly problem. The foundation courses upon ain and this qreat wealth is to be built are plain and
simpirs (1) Drain the soil: (2) sow only the simpis: (1) Drain the soil ; (2) sow only the products of your fields or orchards; ( ${ }^{(4)}$ feed
chese products only to profitable stock; (5) put form. and therein is one of the greatest difficulties. It shltural colliege. larker life can be justified only on the ground hat thereby we are contributing to

## Lotus Fields' Ayrshire Sale

 At Rerlin- Lotus Fields sule of Ker 10th advertised n " The Farmer's Advocate," some handsome prices were realized, some of the highest being ont. The imported three-year-old bull, Bargenoch Bonnie Scotland, sold at $\$ 1,600$ to John cunner-up. The ten-weeks-old heifer calf, Jean Armour 2nd, whose picture, with her dam, apaneared in the Nov. 3rd issue of . The Farmer's peared in the Nov. Sy by Mr. Hunter at $\$ 1,000$, and the two-year-old heifer, Howie's Cream Pot (imp.), the Scuttish champion femate next high fell to the same $\$ 725$, for the eight-year-old cow. Dalliddle Fithie 3rd (imp.), purchassd by Chase

Advertising Our Apples in Belgium Following is a copy of a letter receivermis-
ottawa from Win. Hutchison, Canadian Comma sioner at the Brussels Exhtmtore Commissioner aressed Ruddick and referred to a shipment of 150 i,oxes, forwarded during the first week ." We have received the shipment of apples, and can asstre nomer complimentary remarks received as to the quality or the apples, am satisfied Canadt has made a hipople to know the difference between the apples received from us and hose that are offered for sate by the merchants here as Canadian apples. The veen very popular rith the people, which has been taken advantage of by the trade. who, no matter where they buy hese apples are the same as are on exhibit in he Canadian Pavilion."
F. C. Nunnick, District Representative of the Ontario Department of Agriculture at Alexandria
Ont., is to join the Toronto office staff of the Department about necember 1st. N. D. McKenhe. Bistrict representative's work in Glengary or O . Ar. McKenzie graduaten in 1909 from nanagement of a 1,500 -acre farm in Michigan. such practical experience should be of splendid value to him in his work wher
farmers.


## 1854

THE FARMER'S ADVOCATE

Maine Fruit Show and Convention
year ago. was noticeatle in the display of fruit held in connection with the annual meeting of
the Main State Pomological Society, in Auburn the Main State Pomological
November 8 h , 9 th and 10 th
For the first time in the history of this So-
ciety there was a big exhibit of box fruit, and more than that, nearly all of the 110 boxes composing it, were packed by the growers, men wh
up to this year, with few exceptions, had neve pached a lox before. The idea of the arrange ment was copied from the Boston Exposition, and
was as attractive on a small scale as that fron was as attractive on a small scale as that from
which it was patterned. There was a good display of barrelled apples, als
The live issues of the convention were the laws
governing growing and packing. governing growing and packing. These wer
brought out in the address of the president, Dr Geo. M. Twitchell, as recommendations that he thought were needed to insure continued advance The new law he did not consider stringent enough
after a tria! of it, and ke thought it advisable to remove the ten-per-cent. leeway, and demand a package that should represent perfection.
Some thought that the ten per cent. should stand and be lived up to before trying perfection in the package; others, who were enthuslastic it stands was obnoxicus to some who did not wish to have the responsibility of packing, be
cause it called for the name of the grower to appear on the package, and they did not wish to stand back of the packing done by others. Discussion of the matter caused the appoint-
ment of the Executive Committee to be named as ment of the Executive Committee to be named as
a conmmittee to appear before the Legislature the coming winter to ask for an appropriation for enforcement, and to have the ten per cent. re moved. Among other things that were to be
brought up was that measures should be taken brought up was that measures should be taken
to have old trees that were dead or worthless removed, and all living trees and orchards
sprayed. $\underset{\substack{\text { sprayed } \\ \text { In the }}}{ }$
In the course of the discussions it was brought out that the Canadian Fruit Marks Act, from
which Maine's present law was framed, had
worked to the interest of the Canadian apple trade. This was used as a lever to raise the

Points emphasized by all the speakers, con cerning the care of the orchard, were, first an
foremost, spraying, culture and pruning. Mr Van Alstyne advocated the idea that one thor ough spraying would give fruit 95 per cent. per
fect. In the case of Mr. Hardy, spraying was what had won for him the prize on his Balliwins neglected orchard, by pruning, spraying and feed classed other exhihitors at the Boston Exposinot be so krood as from sod, as in the orchard that he cultwated the frult had been greener vocated better fruit by the propagating of better
trees. This was to be accomplished by the use scions from trees known to be hardy, thrifty and Hitchings puts it, pedigreed stock. Mr. Powell
thought the idea of Dr. Twitchell, that Mainegrown trees were hat Row sibility that at grown that would loe insect and funens resistant would, of co:
lection, stock consideration
There is a
There is a lack of apples to ment the Ahmant
$\qquad$ Powell has overcome in his orchards fo the sum that this is what he has done and the result is food enolleh to grow th the proper sman was called upon to illustrat cut a proper way tree off a font from the roots, leal says it will do in at season. If a tree has a cause, he cuts that tree's top, off from two the
three feet from the ronts; that too. will make satisfactory growth. A normal tree. with roots in normal condtas and tops to correspond.
third, and
Raing placed on a committes in his state the arouse an interest in agriculture in the pubhi
schonls. he introduced a serime oif lentures on mat ture study insects, plants and hindreet subiects whe was working that other sections put in a pleat
for the same instruction. In onfered for dic
the district that would agree to write a compo
sition on the care and culture of the plants. No
only in that locality, but from all over the State carme the requests, until his own stock was exhausted, and he had to call for help from his
friends. In all, 25,000 plants were given out, and, contrary to the idea of his co-workers, the Child, and the language used and the observaions tmal in good shope chirlen Mr. Van Alstyne had many recommendations to make concerning setting out orchards. Strong figorous trees, of good shape, standard varieties, red apples are in demand; good shippers, rather than delicate kinds; fall varieties mingled with the winter: that the seasons of spraying and har westing may be prolongen, waw lesaded trees scald; the apples could be picked better and Cheaper, and the same was true of spraying. He believed in catering to the barrel trade, rather
than the box. It was to the Rooseveltian familles that one should look for profitable tradethe ones that would huy one barrel, and turn around and buy another when that was gone.
Wilfred Wheeler. in his talk on small fruits mentioned the Pan-Anerican as a strawberry that would lengthen out the season, un important consideration when planning a strawberry campaign
for the family plot. He thought the small-fruit for the family plot. He thought the small-fruit
industry might be greatly augmented by the introduction of canneries, and believed them a profitable proposition. Ite spoke of a young
Dane living in Massachusetts, who, by hybridizy Dane livinc in Massachusetts, who, by hybridiz-
ing, had obtained a new variety of gooseberry ing, had obtained at new variety of gooseberry
that had yielded at the rate of $\$ 2,000$ per acre. The Danish, Government has recognized the young man's success by an appropriate gold medal. The paper of Prof. Bonns gave an account on past season to compare lime-sulphur sprays of that the new mixtures are as efficacious as the old, and do much less damage to leaf and foliage They were combined with lead arsenate as an and resulis wero disnstrous, but the rentleman thinks that the combination might have been what was in fault, as, in another orchard, wher
it was usen in combination with Paris green, proved excellent, but, as Paris green is so liable in thr lime-sulphur spravs with the arsenate. minimum strength would the that would prove In his talk on sanitation, Prof. V. R. Gardner rid of the railroanl worm. apple magkot and cur culio. Someone advanced the theory that mon
lases and arsenate of lead would kill the moths had been used with good effect. Prof. Bonns was asked in regard to it His answer was that if
the insect took a iree lunch before laying her ergs, and the poison acted quickly, there was I pleasant feature of the meetinus was the at schools. The younger ones were given apples,
the president, ilr. Twitchell, donating two herr Notes on New York Horse Show. ast wickics at the Madion Square Garden has tims yous displat the history of the show tendance. and mut for mans sears has it been
$\qquad$
$\qquad$
 The chemental.e. marked the top metch Camailan horsess. In the cunesear olly stall
 ce pat promise and showld toe capathe of hold yar ohd class. Sailor kinge, a hige actice hor fions four vears old and me next clase ion stal iommation, compactness. strength athel bea

Wale stallion, two years ,ld-Tirst prize, $\$ 100$ onto ; second, $\$ 50$, Wador, Fair Acre Farm Clydesdale stallions, three years old-First prize. hibited by Graham-Renfrew Co. Clydesdale stal lions four years old or over-First prize, $\$ 150$
 third, $\$ 35$, Top spot (Graham-Renfrew (io ttd., Toronto. In the classes for American tandard-breds, Miss K . L. Miks, Galu, divided honors with H.N. Bain, of Pougheepse N . ubeaten stallion, Mograzia, so well known Canadian horse-lovers, was placed second t American-bred Hackney stallion, won the cham pionship for that breed, which is the first time he history of the show that any other than an ion. Thi. Mel Valley ponies, Master and Master piece, won first and second for pontes not exceed Cork, captured the 8500 challenge cup with Lady ey sires repistered in the English studbook. He also carried the field in the contest for the chalenge cup presented for four-n-hands, with that Robin Hood and Burgomaster. Ler In the hunter and jumper classes, horses either bred and owned by Canadians, or bred by them prity of the events. Fspecially was this true n classes where conformation, as well as per-
ormance, was taken into consideration. In the light-weight hunter class, Adam Beck took second lass, first was captured by a Canadian repre sentalive. In the middle-weight hunter class, Beck's Sir Frederick third. In the international jumping competition for the Adam Beck cup, an fish representative was second, a Frenchman third, and Lieut. Sifton fourth. In the jumping later an Anerican was placed up to share equal ualified hunters oox, Toronto, landed in second place. The Lonfied hunters, and, by so doing, won the biggest doubly greal hy the presence amony the defeated of the team which won in England at the Olym-
pia last.June. Sifton's Confidence cleared 7 feet 1 inch in the high jump. capturing first honors. likewise, is the two other jumpiner classes, Ca of a Canadian show, and the excellence of Cana-
dian-hred horses of all kinds was well advertised Modern magazines of the best class devote many bages of space to illustrated articles about from the manufacture of hoots to the vaccination
of swine to ward ofi hog cholera. It is just such hinks that are calculated to stimulate a child's intellectual faculties. But, while the parent
reads aloout thines he is interested in. the child if tender years is forced tor apply himself to the he never heard of, wars he cannot picture, capes and bays he will probably never see and all
sorts of allitract things utterly begond the ken of his present loadtuy and the passing of examinations whe to be his chief scholastic ambitions. The
whole thing is wromg. We should educate the with actualities, amy especially with unfolding
life. The kindergurten matholl should be con tinuen up through the public school, educating
the pupils as much us possible out of doors and leading their interest on from the immediate th
the wltimate or atsotract. We are putting th. Aurt ieriore the horse.

$\qquad$ "ouncs man mip

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Little Trips Among the Eminent.

John Greenleaf Whittier, who has American Burns," is, perhaps, more poet of the country. During the greater part of his life he lived close loved it as only one who has so He was born on the 17th of Debill, Mass., and there he grew up, the life that he afterwards picture Selif strenuously to poetry-writing,
whenever time could be snatched for
it, but out of the reans of verse which he sent out in quest of recognition, but tittle was possessed
any extraordinary merit. Most it rexturand, like the dove sent out
from the ark, and only that written from the ark, and only that written.
for Garrison received recovnition. for Garrison received recovnition.
Indied. in later years, Whiturer him-
self toid of how for twenty years he was "shut out from the favo of
book-sllers and magazine editors." "ook-sellers and magazine enien rigid economy, to live, in spite of
them.." Indeed. it was as jour-
nalist, rather than as poet, and that nalist, rather than as poet, and that
because of his interest in the anti-
siavery campaign, that he first won slavery campaign, that he first won
standing room among the literary
smen men of his day.
After becoming mixed up in some
political intrivues
 found himself. and began to make
his mark as a man of principle and his mark as a man of principle and
talent. Drifting into editorship, he wan connected with several maga-
rines, notably the New England Review, published at Hartord. Con-
necticut. In 1831 he published his
 England, with was production that efore long he was ore in order that
lars for each volume. in he might burn them all up.
In 1836 the farm was sold, and the family removed eight miles . Areaks. whs to be henceforth the poet's home. One of these breaks.
$\qquad$
$\qquad$ his greatest poem, describing the
New Enyland farmer's life 1y and simply and poetically, that it has been compared to . The cot What mater how the night liee lar s Saturday Night," was pubthe New Encland heart hy torm "The Tent on the Beach," following in the succeeding year, "sold at a
rate which Whittier could only with difficulty reconcile to his sense of
the right relation of the poet's work to his reward." Whittier never married. Though always very delicate in health, he lived to a ripe old are, dying on the
7 th of September, 1892 , at almost the completion of eight-five years of Among his best known poems, in addition to those already mentioned, are "Maud Muller," "Barbara Freit,
chie." ". The Pipes at Lucknow," "Lans Deo," and many beautifu)
hymns, among them the one begin ning with the well-known lines:
$\qquad$ Their fronded palms in air; only know I cannot drift
Beyond His love and care,
$\qquad$
$\qquad$ Blow high, blow low, not all its
snow Could quench our hearth-fire's ruddy g Time and Change :-with hair us As was my sire's that winter day;
How strange it seems with so much gone Of life and love, to still live on
Ah, brother ! only I and thou Are left of all that circle now-
The dear home faces whereupon The fitful firelight paled and shon Henceforward, listen as we will, The voices of that hearth are still;
Look where we mas, the wide eart o'er, Those lighted faces smile no more.
We tread the paths their feet have $W_{e}$ sit beneath the orchard trees We sit beneath the orchard trees,
We hear, like them, the hum of bees And rustle of the bladed corn; We turn the pages that they read,
Their written words we linger o'er, But in the sun whey cast no shade,
$\qquad$

Shut in from all the world without We. sat the clean-winged heart about,
Content to let the north wind roa In baffled race at pane and door,
While the red logs before us heat While the red lors before us heat
The frost-line back with tropic heat The frost-line back with tropic
And ever, when a louder blast

$\qquad$ Alas for him who never sees
The stars shine through his cypress Who, hopeless, lays his dead away. Across the mournful marbles play Who hath not learned in hours
$\qquad$

In School Days.
Sill sits the schoolhouse by the road A ragged beggar sunning; Around blackberry vines are running. Within, the master's desk is seen Deep-scarred by raps official:
The warping floor, the battered seats The jack-knife's carved initial;
The charcoal frescoes on its wall Tte feet that, creeping, slow to schoo
Went storming out to playing! Went storming out to playing Long years ago a winter sun
Shone over it at setting;
Lit up its western window-pan
Whittier's Home, Amesbury, Massachusetts.
the enthusiasm and determination of Shook beam and rafter as it passed, the man are shown from the fact The merrier up its roaring draught hat, although his office upon one And brown eyes full of grieving. occasion was burned by a pro-slavery laughed. mob, he disguised himself, saved The house-dog on his paws out- For near her stood the little boy
some of his eflects, and " published spread some of his eftects, and pubnshed Laid to the fire his drowsy head, Her childish favor singled; note As it was said, A A man The cat's dark silhouette on the Mis cap pulled low upon a face
Where pride and shame were min
of peace thy virtue of his Quakerism, of peace by virtue of his Quakerism, A couchant tiger's seemed to fall; gled.
he beat his song into swords and and shame were mint he beat his song into swords and A couchant igers seemed to fall,
uruskets in the time of the great And, for the winter fireside meet,
Ret ween the andirons straddin
Civil war." literary life, however, Between the andirons' straddling Pushine with restless feet the sno His proly literary life, however, feet,
hardly bepan until 1857 , when the The mug of cider simmered slow, As ripht and left, he linger



## 1858



Our English Letter. One of my disappointments during
my stay in the dear old land has
been my beins prevented by circumbeen my being prevented by circum-
stances from visiting. has had -I had
cather hoped to do, the hop-gardens stances hoom to do, the hop-gardens
rather hoped
of Kent during the picking season. A dear friend, whose family had fo
over 200 years occupied a certain most interesting old manor in the very center of the hop industry, hav-
ing given me a very vivid descrip-
tion of the busy three weeks throush which they had lately passed, I beg ged of her to put together some notes for my column in "The Farin
er's Advocate." This she has kind ly done, sending me some illustra tions, and I gladly pass them on
the renders of our Home Depa the readers of our Home Depart
ment in the hope that they inay ment, in the hope that they may
prove of as much interest to them as they have to myselif. In this hig Canada of ours it may be diffi-
cult to realize what to the slumcult to realize what to the slum
dweller of overcrowded London thi brief period of wafe-earning in strong, pure air realls means, and by the hop-pickers who seek for em by the hop-pickers who seek for em-
ployment in the hop-procucing fields of Kent and other count that where the industry Hourishes. That devoter
men and women, clergymen and lay men and women, clergymen and
men, undergraduates from oxford etc. arrange to spend their holiday
in the midst of the workers, with in the midst of the workers, with
view to kindly care and gentle guid
ance has a wide sinnificicance. and ance, has a wide significance, and
has proved of inestimable value in many known instances.
my.
friend tells of the delight of the hoppers in the entertainent
and sincial evennes provided for
anem, but from another source 1 read of what may sound someewhat of an

 ago, at the first meeting held at Five Oak Green, only five people
turned "p: "ne worker made the
remark. There are the five oaks ": hence its name. The socict, now
numbers some hundrects.
Every
 ther ent of ench sulcceedder| sar. For
 ther will fait thfully promise to kee hopping
But it
friond time to sine ". on hops."
now to tell you a faw incitemts Yow to tell you a fow inceltent of
my summer in the heprowing cal
$\qquad$

IHE HARMER'S ADVOCATE
 Well, we have reacher the time of
hop life, which now becomes keenly hop life, which now becomes keenly
interesting. Two months ago the
"Iondon Pickers." have been accepted; now word is sent to them
to come, and the nisht trains brins
them down in hundrads
$\qquad$
many thousand come into ke
alone, whilst hops are grown
are

 picking, which means a heavy
to the, rrower Hops are an expensive crop,
ing $\$ 50$ an acre, more or less. cording to the farming - the b b
the farming. the bettor the 1 must not forget to tell you th we have clergy and church-workers
working among the pickers; services and what they much
mapic-lantern
 the children. and maybe tea aul buns for the mothers.
Occasionally there
mecrasionally there is a strike for masters get good pickers, and then
all qoes on smoothly. When all is over, we say, " summer's Lone, and
autumn comes apace ! Let yin ayain to collect magazines an
books for noxt

## The Roundabout Club

Topics for the Winter's Work


## The Beaver Circle.

$\qquad$ Companied by their familitser On
this farm there are 400 pickers, be sides binmen, The masurers, and - bookers." The hopper houses
here are built of brick and slates on the heath, and in rows of twenty or
less, only used for the three weeks tess, only used for the three weeks
during hop-picking time. They con tain only a bedstead, shelf, window
(smali). and plenty of clean straul At the end of the scason these aro
thoroughly cleansed, and left empity The folks arrive mostly by tram.
 calch. Can be had for one hali-tpenty
 the seven or eiche int sendants are all The hoppers then wo to their "ull anum this is an thimechlt musnems haul hast thue hut the temint a worn

Oast House Most of the , cooking is done it
cook howses,
where the fakrel cook-houses," where the fagkot
ane burn the sursendel
aron tonts with chains you may ofte iron rots, with chans you may ofter
see several ketules and w.. billies
 to say that the health of the people
from the East End of London visibl to say that the health of the people
from the East End of London visibly
improve, and that they
vo back their poor homes looking quit





OHE HARMERS AUVOCAIE


Strictly New-laid Eggs and Cratefattened Dressed Poultry

W A N T E D!





Infant Mortality
on the athove subpect, by W. Melen Mact
Murchy, whom many of our maders know Murchy, whom many of our ruaders how
through the Women's Institute, was pubBeginning with the statement that

- every yoar nearly 10,000 children in Ontario, under the age of five years, go to
their graves," Dr. MacMurchy proceeds to denonstrate that the MOTHEFR, needs
education along the line of caring tor education along the line of caring tor
children, in order that this appalling children, in order that this appallin
death-rate may be stopped.
"There is something wrong with the place where childen die.". whe says.
"Whoever is in fault when the bahy died it is usually not the baby." and then she goes to an important root of the
matter mother, the chances are nureat by that will live. If it is fed in any other way,
the chances are great that it will die In order, then, that a mother may
nurse her child, she must be herself wellnourished, and so well has this fact been grasped in some places, that municipal
help has been obtaincd to provide food for the very poor mothers. who otherwise
mikht not obtain it. In Paris. for instance. several mothers' restaurants have
been established at which two good meals frre-the weals consisting of soup, lentils,
beans, potatoes, macaroni, beef, bread.
cheee, or a stick of chow Cheese, or a stick of chocolate. Paris
also has a dispmensary where pastearized milk is supplied for infunts which are de-
pendent upon such food. Thendent upon such work in 1hoston is especially noted.
The wore particularly the ".Consulumions" sule of 50 vartu alcounol and one part
suric acid. Ihit, the artucle in this solution fir exactly ten minutes. then
rinse quichly with pure water, wash with
pare alcohul, and rull, dry with n soft

Seasonable Recipes

$\qquad$
$\qquad$
is as simple as possible, and only the
most impuretut moints are emphasizad, all
unnecessary details being
attump is made to exive the reasons for
the ndvice. and illustrations are wed the ndrice. and illustrations are used
which are likely to appeal to the common
sonch cournged to ask yunstions, however sim-
phe, und it is in this way that some of and enforcod Regularity of feeding.
bathing, clothing, fresh air-thesc are some of the topics doalt with. A talk would
run somewhat as follows: A large
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mothers knew just how to teed and care
for thom. That is what we have conue
$\qquad$
$\qquad$
$\qquad$



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