

Vol. XLVII.
LONDON, ONTARIO, OCTOBER 24. 1912.

## Prove the superior qualities of Purity Flour at our risk

Because we believe that PURITY is the best and most uniform flour milled-because we believe that PURITY goes farther than any other flour we say to every woman who reads this advertisement :

Go to your Grocer and buy a sack of PURITY FLOUR. Test it by actual baking and if it does not make better and more nutritious bread than any other flour you have ever used-if it does not make lighter, daintier cakes and pastry, then the Grocer will return your money.

That's the fairest way we know of doing business. Already tens of thousands Canadian housewives have proven every claim we've made about PURITY FLOUR. Hosts of particular women declare that we are too modest in our claims--they say that PURITY is the one dependable flour. Test PURITY FLOUR for yourself. You get your money back if it does not give complete satisfaction.


Know the make-up of roofing you buy On the make-up depends how long it will last, and how little it costs you in the end.

is made of genuine asphalt, produced by Nature in Nature's ing life that gives it greatest resistance to weather. Genasco costs about the same as ordinary roofings in the be ginning, and costs less in the end, because it lasts so long. Comes in rolls with either mineral or smooth surface. Ready and easy
to lay. Ask your dealer for tolay. Ask your dealer for Genasco
Write us for the valuable Good Roo N9. Guide Book and sam-
ples-free.
The Kant-leak Kloet, for smooth-surface roo
ings, does away with cement and prevents
The Barber Asphalt PavingCompany Largest producers of asphatt, and 1 largest
manulacturess of ready roofng
Pew York Philadelphia
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Caverhill Learmont \& Compan
Montreal Ont Winniper, Man.
D. H. Howder D. H. Howden \& Co.. Ltd.


SYNOPSIS OF DEGMINION LAND

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homestead. Priarter-section along



 W. Depaty of the Minister. of the Interior



Are you anxious to save time and money on the work you are doing on your farm at present, and to get larger crops
from your farm or orchard? If so, let us send ou, FREE OF CHARGE, ou pamphlets on the use of

## Stumping Powders

## USED FOR

Removing Stumps and Boulders Digsing Wells and Ditches Planting and Cultivating Orchards Breaking Hard Pan, Shale or Clay Subsoils Etc., etc., etc.
Figure yourself what clearing your farm is costing now, or what you are losing in crops through not clearing. Write us about arranging demonstrations
CANADIAN EXPLOSIVES, LIMITED Montreal, P. Q.

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GILSON

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Are built for hard, teady work, and keen
 T IS the reputation which "BAKER" Wind
Engine have fiily whand steadily held ever
singe their first appear ance on the market 30 years azo, that should bearance onsidered. market, 30
fambus for their durability, simplicity
They are


 the full lower of the wind and enable them to pump
in the lightest brezes.
Has ball-bearing turn-table
 are covered with a cast shield, protecting same from
ice end sleet. The abo
features features that have placed "BAKER" Mills in the
leand Let the H.A. Co. anent give you complete
information. or write direct for booklet.
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DON'T BURN UP MONEY

$\mathrm{B}^{\mathrm{ULLI}} \mathrm{Han}$



$T-A \begin{aligned} & \text { Wide-Tire Steel Wheels } \\ & \text { \& Handy Farm Wasons }\end{aligned}$
 Way than ordin iny every
wheotson Make ourd
wagons Mew bor fold
them up will by fiting them us with by hitting
wheels.

Tudhope-Anderson Co'y, Ltd.



## The Gurney-Oxford Enthusiast

The housewife who owns a Curney-Oxfordwho has daily experience with it-who knows the way it works-the economy and efficiency of itis a Gurney-Oxford Enthusiast.

The Gurney-Oxford Range is the sum total of 70 years experience in stove construction. It is a big, up-standing, handsome stove, that works constantly and unfailingly for its owner's satisfaction. It stands guard over her interests, conserving her
time and energy, effecting a daily saving in coal, adding to the household economy and increasing the pleasure which comes from a smooth-running and well-ordered household.

That's why she enthusiastically recommends the Gurney-Oxford whenever the question comes up.

She wants her friends to learn, what she knows to be a fact, that a Gurney-Oxford Range is a good housewife's most valuable and cherished possession.

# The Gurney Foundry Co., Limited 

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We take the time and pains to build them There are many good features in the
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CREAM SEPARATORS

The best of all dairy investments Saves $\$ 10$. to $\$ 15$. per cow every year

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IT BRATS CORN-MEAL When increase of weight in animals and cost of feeding are con-
sidered. That is the reason wise stockmen and dairymen use

## SUGAR BEET MEAL

In the feed rations, whether for young animals, stockers or dairy
cows. The results are marked gains, at least cost, in every case. This meal is ready for shipment now As our supply is always
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Fruit Trees $\begin{gathered}\text { by the } \\ \text { mult } \\ \text { and }\end{gathered}$

The right sorts for your locallty
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## THE HARVEST TIME

Should always find the successful
husbandman with hand, Make use of arplus on
of this by invertin of this by investing in a short
term LLife or Endownent
P. future independence

The Federal Life Assurance hamilton, ${ }^{\text {COMPANY }}$ ONTARIO




Vol. XLVII.
I, ONDON, ONTARIO, OCTOBER 24, 1912.

## EDITORIAL.

$\qquad$ When a writer in the University Magazine de
describes our educational system as "stean roller," the definition though depressing, is apt.

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t is symptomatic of change-let us hope for he better-when the Ontario educational steam roller puts on a fresh head of steam.

Even a steam roller at the expense or some jolting, has been known to change its course on the public highway in order to get out of a rut.

Other causes play a part no doubt, but little wonder that people become exercised as they witness generation after generation of the brightest, and best of farm youth steam-rollered by an eduof agriculture.

Flectricity for farm purposes was but yester day regarded as a dream of the future. Through the offices of the Ontario Hydro-Electric Commisity over large areas of country. May the most saaguine hopes be fulfilled.

In the rush of autumn work after a summer when bad weather has impeded progress as was the case this year, it is sometimes impossible to Still it will hardly pay to neglect the stock and implements. Inattention to the former dimin ishes the arterial current of revenue, while ne glect of the latter opens a steady leak of loss.
\{ In placing dependence upon educational ex there is a danger of imitating the enterprise grocer, referred to by a recent writer, who put
upon the market a line of artificial liver and bacon which he modestly advertised "" an some, or nearly so"-exceedingly ingenious whole ception, but innutritious as a regular article of diet.

It seems to have been an excellent season for tree-planting. Out of an orchard of 346 trees planted at Weldwood the past spring all but "filler," killed by borers, while the was a peach were apple trees which were dried out and dead looking when planted and only inserted in midspaces on the bare chance that they might surve. Every tree that had a fair chance lived, an old blue-grass sod, which received ran up into tion but a little digging right around the trees, all have made vigorous growth. This orchard was planted on a new seeding of clover, the trees being set on narrow ridges plowed last December and top-dressed during the winter. Between was cut, also five loads of aftermath to thresh for seed. On the ridges between the trees potatoes and mangels were planted and have yielded long way towards paying for the first year's cullong way towards paying for the first year's cul-
ture of the orchard.

Less acid and more substance is the aim in ensilage nowadays.

For all the cold, wet summer season many silos have been filled-or partly filled-with extra well-eared and well-matured corn.

Sunshine is essential to plant growth. Moisture was abundant this year, but at the very time precipitation was as heavy as at any time during the season the millet crop was noticed to The lack of sunshine was believed to be the The
system of stable ventilation may be consid ered complete which requires the presence of a attendant to keep it working. Perfect ventila ing inceacantly with minimustem which is work ing incessantly with a minimum amount of atten siderably by the the man in charge may aid con tem which admit satisfactory scheme is that which requires the least looking after.

This has been a very good season to demon strate the value of underdrainage. In travelling ing the the country it was a common sight, during the harvest season, to see one farm stripped was still in the fields. There neighooring place weather at the beginning of the harvest, who had their grain sown early were fortunate beoause it ripened early, and missed the worst the season's downpour. What was the secret of the early seeding? Simply underdrainage.

There is more in the variety of many of our farm crops than most of us realize. The potato experiments carried on at the O.A.C. this year have shown that certain varieties are more res certain varieties of wheat stand the wnow that ter than others, and that certain varieties yield more heavily than others, and that some yarie ties have better quality than others. These various points should be considered in connection with. every crop. It is not enough to know that the crop is oats, wheat, barley, potatoes or corn, as the case may be.. Study the difierent varieties. Select the best and insist upon its being true to type, pure and vital.

Drainace demonstrations have been carried on by the Department of Physics at the Ontario Agricultural College, and by the district repre sentatives of the Ontario Department of Agriculture for several years with good success, but the first practical demonstration of digging the ditch and laying tike, was recently held in Bruce Co. This is perhaps the greatest step forward which this work has made, and it is not to end here, different counties in Ontario to determine the best depth and the most suitable distances apart place tile drains in different kinds of soil. There are those who believe very heavy clay cannot be satisfactorily underdrained. These experiments will determine the point. Nothing convinces like a practical demonstration. The more of these that are held the better

Closer Touch With Famm Life.
By all accounts, the editorial "Why ?" appearing in the "Farmer's Advocate" of September 26th has struck fire, if we may judge by exchange comment, correspondence and interviews. The Christian Guardian was greatly surprised to see us "break loose in such violent fashion and say such unparliamentary things about the Provincial Department of Education." The Guardian itseld proceeds to discuss the subject in a more chastened spirit as befitting a religious publication, but we are pleased to note that its views are in perfect accord with our own, as once more elaborated on the editorial page of October 10th. "Some arrangement should be arrived at, says the Guardian, by which our whole educational system, from the University downwards, would be brought into closer touch with farm life." Just so. It have only to. As her structive criticism, with little appar at congoing heed at heedquarters, happaront thoroughgoing tack. We tiferent tack
dit it again."

## Real Reform for the Rural Schools

A considerable display of well-intended effort may be made in respect to the reformation of fural public-school education without reaching roots of the trouble, which are deeply made made on paper while the tangle results are or later learn to its cost. At a of teachers in an Ontario school inspectorate re cently enquiry was made regarding the use of a very fine chart, illustrative of plant and insect life, that had been especially distributed to the rural schools months before. The response, as reported, was that but one teacher had made use of the chart, and in that case only to a limited degree. This illustrates just what is liable to occur with the superficial or merely optional, no matter how well meant. Real reforms must, as The Farmer's Advocate has scores of times pointed out, editorially and by its correspond nce, reach the regular program of normal-teacher training, the public-school curriculum and the text books in daily use by the pupils from the primary classes and upward. There is little time to accomplish much in a course that hur ries to its end as a high-school feeder. A few years ago when the text books in the Province missed to were revised a grand opportunity was missed to give them some fitting relation to the ticians lound hustings. Inseat the hustings. Instead containing more material conceived with this end in view the new Nearly everybody is less of than the old. country to city : we lament the drift from congestion and the over-crowding of the rroan sions and commercial life. It is conceded profesa knowledge of rural affairs and a juster ana ciation of the advantages of rural life would tend to preserve a more wholesome balance in the affairs of country and town, and be for the decided advantage of the growing city population. In colloquial phrase it would tend to "even things up" and give all a more equal opportunity. Most of the rural teachers are young ladies who had practically taken leave of rural life in early years, and not a few of the others are from the
the Farmers Advocate

## and home magazine

ADING AGRICULTURAL JOURNAL IN THE DOMINION.
PHBELELSHRD WEEKLY BY (LTMITED) JOHN WELD, Manacer Asentio for "The Farmerris Advooate

1. THE PARMER'S ADVoCATE AND Home Magazine











WhRN A ARPLY BY MAIT IS REqUIRED to Urgent

2. ofange of addrers



 Address-THE FARMER'S ADVOCATE, THE WILLIAM WELD COMPANY (LIMTTED), London, Canada
sities and towns direct. If text books normol training and curriculum do not shape for new ends, then we may expect nothing else than that ults ults will be reproduced with automatic persist served, As a thoughtful farmer the other day obin the chess there is some radical change made soon be work and preserve its home life. The people work and preserve its home life. The people
will be all in town.

## The Long Look Ahead.

Editor '" The, Farmer's Advocate
Farming is a cultivat
as of the soil. Pultivation of the spirit as wel
many lesser virtues many lesser virtues, grow, and ripen within us
while we wait from the time the first furrow until the sheaves are safely the thered ine
the barn. the barn. We cannot, as does the labored or
professional man, professional man, expect our day's pay at the
end of our day, labour, for we work for the
future and not for future and not for the present. we work for the
Even when the
golden grain is at last shaken into our hands is but that we may again sow and again wait.
In this wise the promis in In this wise the promise is permanently, as it
were, always before uss; its fulfillment forever afar.
Not that I would for that or any express our condition that or any other reason,
Sorrow is rany sense of sadness Sorrow is rather for those who must live without
the fresh zest of life which every spring re-creates the fresh zest of life which every spring re-creates
anew in our hearts. What I wish to emphasize
is the far-away result of almost and the need made imperative thereby, of continu-
ally looking a lone way ally looking a long way ahead. If work is but
for a day it may be done without much thought,
but if it is to stand throngh the a monument of our making, if it is to represent our character and ideals, to bear witness to our go by; we need to look on our present efforts to
the light of our results that will them; we need to look a long way accrue from It is my firm belief that the promise of heaven
has always had more power to stimulate the saint
than the threat than the threat of hell has had to deter the sin-
ner, and I likewise consider it time and labor
lost to attempt to cenvert the careless by talk-
ing of the dread consequences of the future. More
to the sharp lessons of repeated foilures. the sharp lessons of repeated failures; more with that of others; more to the personal experience dearly bought and sacrificingly paid for must we owe our regeneration than to all the
sermons ever spoken or written
I concede that when the outcome of almost all
farm work is so often invisible and unfelt until the remembrance of the work itself has had time to fade away more or less, it is like sliding down more comfirmedly so-to work more and-to beoome out chart and compass, and trust to time and luak to finish out all right what they weakly and Wilfuly begin all wrong.
results of long and and unthinking the faveral plable attention, of hard work, is enviously characterted while another one man has magnificent crops poor returns: if inder equal conditions, has but live-stock, while others are steadily success with if one has all his farming operations succoeding are continually tions which they themselves create time and condiand shallow-minded, as I have already ignorant 'luck.' They do not reflect that this old world

See worlds , through vast immensity can pierce
Observe how system compose one universe, What other planets circle other suns,
has been too carefully fitted together to have
within it such an erratic element matter simply resolved is that the successful The conscientiously, the man carefully and carries out the man who thinks a long way ahead Every result is so from a certain
every cause owes its existence to a certain and
authority whose result is a failure authority for the cause need of reform for the real failure is immediate It is but in ourselves
yond the farmer's control. As forces which are beweather, or disease, or again unavoidable accidents, but if we cannot control the weather accibanish disease, avoid accident, or escape calam-
ittes, we can by careful consideration a long way ahead careful consideration and looking ing operations, so entrench oursel ces behind protecting system, as to almost circumvent the a forces which are seemingly hostile and assuredly cay afford a control. Tile drainage for instance, weather, so can an abundance of light and cleanle
ness work in and hess work in contravention of disease, so vigilance and a preventive policy guard us from heaven-sent and unavoidable. It is and lazy call giving a long look ahead.
for immediate returns far of humanity to wish pended, and yet how very whatever energy is ex
with what we achieve are we satisfie To act in a hurry and repent at leisure is culness ary in more than a matrimonial sense. We plant stone walls should be we walls where no trees of that leave us wanting to the end houses and barns breed animals that are an eyesore to us until we see them no more, and all because we will not pur-
pose or plan, or take the right precautions The long look ahead presume precautions. many of us live on with no special object in
view. We are like the particular-and about as valuable, for if we five tree - we but cumber the ground. Every man or woman is a missionary who does
something better than his or her neighbors a man grows the best corn, if a woman bakes the of perfection for or thers to emulates a possibility
is the richer for their existence Scientific methods have of late years made so happy-golway into methe farming industry, that the
most disreputable. Bast seem now althe soarcity of farm help, have become more strencompatible with all true of excellence, as quite
if we plan and carry for certain comfort and satisfaction. If we hope as possible throughout the successive as easons, if
for instance, we plant fall crops to lessen the ruch of spring work; if we carry on winter dairying or
stock-fecding, so as to engace our helpers by the
year: if we practice Eluard ourselves from total failure, we shall, to a ing scem to work wonders, but more of breed Ward conditions of the present time.
It is a sad thing that we muto- operation is simply "Ilike tends to produce their
Once in a long time an exceptionall

guide ourselves learn to look long vahead, and the time of plowing while we mend the plow that should have been repaired in the fall. We lose seed that should have been settled a guenthstion of We lose our sons and daughters, because we dris on without plans to make them love the farm until they are ready to leave it. Ah, to be taught
early to take the long look ahead, 'How suffering would it save us,' 'How much much The year ing whinter evening is the ideal time t. ensuing months, and pothinge is soceedings of the so doing as to commit ideas and decisions paper for future reference. There are certain days of the year when the rush of work is too
great, the strain too hertain great, the strain too heavy, to do more than ful-
fil the day's duties. It is then that the comes handy, and that we feel all the comfort be well laid-out plan of action. It is of cours write possible that we may fall short of ou than our possibilities but faith is oftimes larger complish more than if we had no plan to go by
Carleton Co., Ont. (MRS.) W. E. HOPKINS.

Knowledge Beyond Personal Ex perience.
the Each one of us in life's business, whether in household, cannot help feeling a certain or in the effect from his daily routine. That same experidoes may render his vision of the possibilities of life less broad. But the habit of reading books that deal with the subject which he pursues command of data a hundred times wider give him own. "Science clearly developed and presented is a summary of the world's experience in its sevthe world's experience instead of his deals with ens his work and his capacity for observation instead of narrowing it."-A. T. Hadley, President

## HORSES.

Pay particular attention to the colt's feet.
All exercise which a colt is given on the hal that of educating him.

Take good care of the horse's legs. Th a warm blanket, but the legs stand expeosed with all times. Gifive them extra grooming.

Apply a wisp of dry straw vigorously to the It will clean the mud from them and ploughing. leaving the horse more them and dry them In keeping
during the months of solt's foot to a good shape down is necessary every four or six weeks. Rounging ping.

Nothing is much more unsanitary than an old all its cracks at every step of the horse. Plank on a cement bottom makes a sanitary lasting
and open at of the draft horse should be large tion is paid the hoof-heads. Too little attenThe feet are called upon this point of the horse. jected to.

Colts which do not get sufficient exercise may ing on fat and to all appearances may be mak-
ing phenomenal gains, but their muscular devel-
opment will net their respiratory system great, and the state of would be the case if regular outdoor strong, as
and adhere to it; that we must lose so much sub- colts. progeny. Select the best horse to sire the

It almost makes one flinch every time he sees these tests the narrower the nutritive ratio the
a lame horse put the sore extremity to the larger the gains. Best results were secured with
ground. If it is the result of accident and the later ground. If it is the result of accident and the
injury is not permanent it is not so serious injury is not permanent it is not so serious, but
where the lameness is the result of ness the case is a bad one. No unsound horse is able to do the amount of work he could do if
he were sound. This should be he were sound. This should be remembered in breeding and buying horses.

Young colts (sucking and yearling) are not
often a strong feature of the horse shows held often a strong feature of the horse shows held
ampually in connection with our fall exhibitions. There is no good reason why more of the youngsters should not come forward, for the breeder's
real value to the breed and to the real value to the breed and to the country lies in his ablity to so mate his stock as to produce to fit, and true they should not more difficult but why not bring out more of them in averag, condition and make the shows as strong in the younger classes as in those for two-year-olds and

Effect of Exercise in Fattening
Eack year a number of horses are fed up or while some keep them as quiet as possibercise is generally necessary to give a little exercise $t$ keep the animal's legs right, but aside from a discussion of the injurious or non-injurious effect exercise has in the fleshing of the horse. experiment carried on at, the Tllinois Experiment
Station where seven horses were not exa Station where seven horses were not exercised period of 84 days, it was found that daily for a getting exercise made 41 pounds less gain per head, or an average of nearly one-half pound far as could be observed, the horses not getting exercise remained in as good health, and retained
their appetite as well as those regularly There is even a difference between the gains made by horses fed in loose box stalls, and those same experiment ten horses were kent with the these two types of stall for 84 days, and those in the single stalls gained 2.4 lbs. daily, as against a gain of 2.2 . 1ts. daily made by those running loose in the hox stalls, or a difference in
favor of the tied horse of 2 ths. daily Absolute idleness with
believed to be in the bext incise whatever is horse, taking to be in the best interests of any
afier life Forse
Horse fattening has many problems, and the to the horse after it leaves his hands. A mature animal is not injured by this idleness to such an extent as the younger stock, and as most horses
are not fattened until they are mature there is not so much damage done.
withe full results of these experiments carried on with the fattening horses are contained in the fol1 1. A mixed.

1. A mixed grain ration of corn and oats, single grain ration of corn for efficient than a gains in an eighty-four day feeding period. hay While a ration of corn, oats, and clover 35 c per bushel, oats 30 c , bran $\$ 20.00$ per ton, oi meal $\$ 27.00$ per ton, clover hay $\$ 8.00$ per ton, clover hay, the gains are such as to make its use
more economical more economical.
2. Clover hay when fed with a mixed grain ration of corn and oats, is more efficient for pro-
ducing gains than timothy hay clover hay produced 58 per cent. more gains than 4. A ration of corn, oats and timothy is not
satisfactory for producing finish in fleshing horses for market, but may be materially improved by
the addition ind ference Experiment No. 2 showed but little ference in the efficiency of a ration of corn and
oats, where the quant where the oats and corn were fed in equal
in each ration 6. A ration of one-fourth oats and three-
fourths corn, proved more economical than one of
half half oats and half corn. tions of ration of corn and bran fed in proporweight is superior bran to four parts corn by
ducing gail-corn ration for pro8. This test seemed to indicate that there is danger oi feeding too much bran for best results,
when chover hay furnishes the roughage part of
the ration. The bran and clover combined pro-
d duced a too taxative condition. too Iation with a nutritive ratio of $1: 10$ is
for best results in fleshing horses. In
3. Exercise has a retarding effect upon the taking on of flesh. In this test the horses rethan those having a daily walk of 2.8 miles. stalls for stabling box stalls are safer than single stalls for stabling horses, they are also more ex-
pensive, and do not offer merits not possessed single stalls so far as they may possessed by horse in taking on flesh. The horses stabled in single stalls made 16 pounds or 8 per cent. more gains in 84 days than those in box stalls. not return as large a profit in feeding as those will other classes. The kind of horses it will pay best to feed depends partially upon the season of the year when marketed. All heavy horses will pay better than light horses, and good and choice
animals better than those of the lower grades

## LIVE STOCK

For quick returns few classes of live sto
Feed the ram a little grain through the breed-
ng season. Stronger lambs will result

Ewes in good condition when bred drop more .
Dip the sheep before they go into winter quar
ters. Choose a warm day ters. Choose a warm day when the sun is bright

Cold rains are bad on the flock. If possible give them protection under a shed or in a pen

It is good practice to feed all milk to the calves from pails. Each calf gets his own share Removable partitions between two or more
box stalls make it possible to increase the size
of the stall of the stall as the calves grow or as more space
is required.

Box stalls for the calves with stanchions or
chain ties while feeding will solve the proble preventing the injurious habit so common among skim-milk calves of sucking. Twenty minutes after feecing the calyes may be let loose again.

Boro Heiress.

Provided the food is kept sweet and is not
allowed to stale in any way, hogs will eat more when it is soaked than when it is fed dry and will make larger gains. The gains are due to the larger amount of grain consumed and not to

Seventy good hogs fed for the entire summer twenty-five pounds of meal a day were only seen on the Prison Farm at Guelph. These hogs made rapid gains and thrived well during the entire sumnuer. A free run and clover pasture is
an economical method of feeding hogs.

If cattle are to be fed corn they will do quite as well during the early stages of corn feeding on
bundle corn direct from the field, as they will on corn that has been prepared for them at a great expense of labor, says Prof. Andrew Bress. Several feeders in Minnesota are successfully fin-
ishing their cattle on bundle corn and secure ex ishing their cattle on bundle corn, and secure ex-
cellent returns from their corn crop by reducing to the minimum the cost of production.

## Feeding Value of Wild Flax Seed

 to clean out of our wheat this year. Could this not be economically used to feed our milch cows by mixing it with silage and chaff? of course we could boil it and kill the seed and it would place be fit for feed, but we haven't a suitable place to boil it except on the stove and we doubt. Halton Co., Ont.
This query was referred to E . S. Archibald B. S. A., Dominion Animal Husbandman, who re "'Regarding the foeding old dairy cows, this seed contains a high percen to of oil, but unlike our grains, contains percentage percentage of starch. The food value of this oil highly satisfactory, hence the whoep has proven mixed with the grain ration, owhole flax seed, if age or pulped roots should give profitable sil turns. I would suggest that thise be mixed medable with the roughage after the latter has been proportioned out to the cows. In this way no.goppowill very little data has been. gatheroduct. As yet visability of boiling flax seed for live stock feeding. This is due almost wholly to the fact that the oil of the flax seed is more valuable for comNevertheless, from the data live-stock feeding. think it would pay to beil the flax seed. This be almost immediately dible condition and should


Small Flocks fop Daipy Farms.

Baltor "The Farmer's Advocate":
The editorial "Sheep on the Dairy Farm The editorial "Sheep on the Dairy Farm,
which appeared in your issue of the 3rd instant is both timely and suggestive. It requires courag to combat popular prejudice, but as an evidence ing practical support, may I instance the fact that one of the most experienced and successful stockmen and grain growers of Western Canada,
with whom I discussed this with whom I discussed this identical subject dur-
ing the past summer, expressed himself, without qualification, as of the opinion that sheep raising and dairy farming could be profitably combined. He went further and stated that such a combination would be the system of stock keeping he
would advocate for adoption in a large part of the grain-growing areas of the Western provinces Conditions, of course, vary between the East and the West, but the need for and the advantage to be gained from the keeping of sheep on dairy
farms cannot but be remarked in speaking either of Eastern or Western Canada. The fact is, the older-settled portions of the country need sheep, and need them badly. That they will yield a profitable return both directly and indirectly is
not now denied. I believe that every dairy farm not now denied. I bel 1 eve that every dairy farm
in Eastern Canada should maintain at least a small flock of these animals.
I would, however, emphasize the word "small. out in returns on both counts sheep will los be no competition for a livelihood on the pastur land between the flock and the dairy herd Fifteen breeding ewes on a 100 -acre farm should be ample in meeting the requirements of that area skilfully managed in their relation to and i under crop, will do for the soil, and for their owner what sheep have done in a country whose husbandry is regarded as very much more perfect than that which we have yet been able to achieve. Asst. Live Stock Commissioner

## Cooking Gpain for Hogs

 From time to time queries come to this office fegarding the advisabiity of cooking grain for experiments carried on in different parts of the United States in cooking or steaming gratn food for pigs, taking in cooked or steamed barley corn and shorts, peas, corn and oatmeal, potatoes, and a mixture of peas, barley and rye, compared with the same foods uncooked (and usually dry), ten of these trials not only gave nogain from cooking, but there was a positive gain from cooking, but there was a positive loss,
i.e., the amount of food required to produce a pound of gain was larger when the food was cooked than when it was fed raw, and in some
cases the difference was considerable. In the
three exceptional cases there was either no gain steaming only very slight gain from cooking or steaming, amounting to 2 per cent. in one case.


Leicester Ram
Champion of the breed at Toronto.
W. Smith, Maple Lodge,

## THE FARM.

## Home-made Cement Mixer.

This is how a farmer can make a concrete mixer of his own in armer can make a concrete cement just as well as any other more expensive mixer, and, at the same time, be much less trouble to build and operate.
The farmer with his nixer can build his own silo, build a concrete foundation build his own any other farm building, as well as lay cor crete floor in his horse stable, cow stable, hog pen, henhouse, or any other building that needs is a very good way of mixing, but as it hand hard to get men, and wages are so high, the pense possible have it done with the least expense possible-he goes to work and makes a inch planks, making them in the by using twoThis box is forty-eight, inches long, thirty inches Wide, and thirty inches deep. Two ends and piece is bolted on each side, inside the box, to stir and mix the cement. The box is held in a horizontal position. A door is cut in one side nine inches wide and forty inches long, hinged on
one side. Now you have the hox It must have an axle have the box and door made in the center of each end of the box large enough


Pride of Albion.
First-prize senior yearling Shorthorn bull, at Toronto, 1912. Owned by J. II. Melick, Edmonton, Alt
to let an inch and a quarter pipe through for an Sand

Sand and cement will not make concrete without water. This axle being hollow, a number of
holes are drilled through the pipe where it passes through the box. An elbow and a short piece of pipe are placed on one end. A funnel is can be run into the mixer where the sand and cement are. This idea makes an inlet for the water, and also an axle for the mixer to turn one lying horizontally on its axle. A pulley thred feet in diameter across is placed close to the end of the mixer to run loose on the axle. This pul ley
per
mins from twenty to twenty-five revolutions per minute, and by a simple arrangement of a
lever, which catches the spokes of the pulley, the mixer can be started or stopped very easily without stopping the drive pulley. The stand or
frame is made out of four-by-four scantling frame is made out of four-by-four scantling, about like that of an Empire churn stand, but much larger.
The capacity of this mixer is a wheel-barrow load at a time. The gravel and cement are put
in the mixer and mixed for about three minutes. in the mixer and mixed for about three minutes minutes longer. This mixer is turned by a gas 7 ine engine, and gives good satisfaction, at a hired to do the same work.
Otario Co., Ont. A. HOWARD ROWE.

Sppaying and Variety in Potatoes Wet seasons, such as the one we have just experienced, are hard on the potato crop. Reports of bight and rot are heard on every hand. had little or whe had littie of no blight report that its ravages land has suffered loss. Low or heavy not the only fouth lusively that spraying frequently y with Bordeaux mixture is and thoroughcannot be ignored. S. E. Todd B. S. which tor of Government Farms for the Provice tario, states that little or no rot has appeared in the potatoes on these farms which have been work was sprayed and on those farms where the tops were just as green and healtail the potato frost came as at any time during the time evidence of blight being noticed. He favors the Delaware variety.
C. A. Zavitz, of the O. A. C., has varieties, Prof. marked results this season. four most blight-proof varieties this year are Extra Early Eureka, Irish Cobbler, Early Pinkeye and Davie's Warrior. Two of these varie are yielding over 450 bushels par acre Warrio rot whatever is visible. These per acre and norieties ar ail heavy $y$ ielders and where others have suffere and planting of blight-resistant varieties cant, be too highly recommended.

## Top-dressing Alfalfa.

alfalfa stand poing into winter the case of a top, to dress it with manure. It comes strong surprise, therefore, to learn that a certain writer living in the middle Western States, advises rotted manure. "Under no circumstance and well "should straw or strawy manure be applied to an alfalfa field with the idea in mind to protect the plants. Such applications usually kill out from the application of a light dressing of come manure carefully spread; but unless the soil on Which alfalfa is planted is very poor, manure can t preceding some cultivated advantage by applying potatoes." We cannot say that we altogether agree with overdoing by the application caution against overdoing by the application of course, against
spread manure, may be helpful to some readers.

One of the greatest difficulties which Prof. C. growing of fiekd-root s.A. C., has found in the
ripened up in the fall het them' well ripened up in the fall hefore the frost comes.
The roots selected for seed should be planted as The roots selected for seed should be planted as good care throughout the summer. It must be remembered that many districts in Ontario are
much much more favorable to the ripening of root seeds than is the o. A. College ripening of root
it is at a very high altitude, us
is comparativel. shere the season

## Bxperiments and Practical Dem

 onstration of Underdirainage. Tke Department of Physics, at the Ontario agricultural College has for several years past been doing a great work in the encouragement of farm underdrainage, but the greatest step forward has been made very recently. A part of the grant which the Dominion Government made this year o the various Provincial Governments to be used as an aid in agricultural development, is being sed to demonstrate the advantages of farm unerdrainage. A gasoline traction ditcher has been purchal districts to show the are to be held in verations connected with people the actual opas not enough th and demonstrate to the people surveys of the land how to liay out a drain grade over a ditch, and how to dig the dite the a grade by use of charts. Something ditch to practical was needed. Besides there are more ing on low, comparatively level land, which is more or less of a heavy clay, who do not believe thet underdrainage is practicable, or would be at all suocessful on their land. Then, too, there is a great difference of opinion as to the distance apart, and the depth drains should be placed in different kinds of soll. Actual demonstration and experiment will solve all these problems.The first demonstration was held Friday October eleventh, on the farm of Neil McDougald Tara in Bruce Co., Ontario. The people of this in July last the interested in underdrainage, and held a urainage picnic the O. A. C. gave an address during. W. H. Day, of which he mentioned the fast that course of strations were soon to be held in dicging demon and laying tile. Accordingly a fieldging ditches and the demonstration held. aver field was reserved, farmers attended, and witnessed the underdraining of a field which had only produced one crop ten or twelve years. During the afternoon Prof. Day, N. C. McKay, B. S. A., District RepreA., Asst. Rep. for Grey, gave addresses on the alue of underdrainage.
The plan of the demonstration and experiment
is this. The plot to be drained must consist is this. The plot to be drained must consist of from five to ten acres, must be situated on a ituated as to leave so much land as nearl identical with it as possible, underdrained for a check. The owner must agree to sow the same year for three years, and must report all differences in yield, etc. The drained portion is divided into sections with drains two feet deep apart, three feet deep and two rods apart, and three feet doep and four rods apart. This be5 undes testing the value of underdrainage against underdrained soil, compares different depths and
different distances apart for the drains. This demonstration was a decided success, as far as putting in the drains was concerned.
Next spring work of this kind wil in Next spring work of this kind will commenc in Haldimand Co.i where eleven of these demon
stration fields will be put in. Six of these ar already located and five more will be secured each township getting one, and the two largest digging and putting in the tile is done sy the thing partment of Physics. The farmer must hereafte supphy the tile, and as these demonstrations ar bound to be of great value to the tile business manufacturers should be induced to supply the
tile free of charge. This work should eventually dispel all doubt as to the value and practicabil ity of underdrainage. Experimental work is being carried out with
underdrainage on the College farm as well. A
large field is large field is divided into ranges on either side of a mile-long main drain. The first range on
one side is underdrained, the second section i divided into plots of 1 1. acres each, one plot be
ing drained by drains 30 feet apart, one plot 60 feet apart and one 99 feet apart, all drains two feet deep; the third section is laid out the same as No. 2, but the drains are three feet deep.
These have the narrow drainage in the low These have the narrow drainage in the low
ground, and the wide drainage on the higher ground, while plot four with three-foot drains has the wide drainage in low ground and the narrow on the high ground. The order of the ranges is By the use of 'basins and a water meter, the exact amount of drainage from each system is to be calculated. Some of the most valuable informa-
tion on drainage yet available should come from this, an drainage yet available should come from laying, tile should prove a great stimulus to un-
derdraing

## Canadian Road Systema

 By W. A. McLean, Chief Engineer of Highways for ctober 2nd, 1912.high creation of a thoroughly efficient systen which, in construction and maintenance, is a task being actively considered and dealt with. While measures to the present time have been made, the formative stage. Evolution rather than revo countries of been the history of legislation in measures of Canada are following systems and rule. rule.
while the real improvement and construction of becomes established and municipal organization is
Canada has a geographical backbone, a rocky mineral region about the center of the continent extending northerly from Lake Superior to Eud inces of Manitoba, Saskatchewan, Alberta, and British Columbia are comparatively new, having been developed since the construction of the first Canadian transcontinental railway, the Canadian Superior region are the old provinces of Ontario Quebec, New Brunswick, Nova Scotia, and Prince
Edward Island. Edward Island.

6


Crowd Watching the Ditcher Work.
Drainage demonstration on the farm of Neil McDougald, Tara, Ont.

The Canadian form of government is similar to that of the United States in some respects. administration at Ottawa, just as the federal States is a federation of states with the seat of government at Washington. Each of the nine provinces has its own legislature, as has each of into states; and the provinces are again divided ships and counties; while the urban are villages, towns and cities,-but as in the States, local government varies in the different provinces. The Canadian constitution, "The British North America Act", defines the powers and jurisdiction
of the Provincial, and those of the Federal Dominion Government. Under that Act, legislation respecting public roads and municipal organization is within the authority of the provinces, although the Dominion Government has power to
subsidize road construction. ' The tendency in each province (with certain exceptions) until recently has been to regard the opening and grading of
roads in new territory as a provincial function


A Ditch Dug, and Tile Laid
Neil McDougald a traction ditcher, on the farm o
British Columbia on the Pa
traversed by the Rocky Mountains, and coast, if organization is, therefore, interrunted municipal sequence, the Provincial Government has alwaycontributed largely to road-building. At the construction of trunk roads being spent on the 000,000 annually, under the direction of the DO partment of Public Worke. Stone for micet roads is plentiful, but the grading of mountain highways is expensive. The trunk roads now beupon completion will attract many tourists. In the past ten years approximately $\$ 15,000,000$ ha boen spent by the Province on roads and bridgen, three years 1912-14 is now equal amount in ?

> SASKATCHEWAN AND ALBERTA.

Saskatchewan and Alberta, occupying the prairie country north of Montana and North

1905, and are in a pioneer stage of development
Earth roads, with bridges, are the present need and very little has been done toward grood broken stone or gravel roads. Each of these provinces and is drawing largely on its repartment, however, penditure. The provincial governments in each case are grading and bridging the main roads. As fast as settlement permits, thice or four town ships are organized into Local Improvement Dis-
tricts with Councils to expend money raised tricts with Councils to expend money raised b
local taxation, In the case of Saskatchewan, a annual provincial appropiration (in 1910, the sum of $\$ 60,000$ ). was set aside to be drawn upon by the municipalities under a plan of provincial aid.
The chief provincial expenditure in these provinces is applied, however, to trunk highways, by the Provincial Highway Departments, through their own foreman. Steel and wooden bridges are also erected by permanent "bridge gangs." The prov work. In Saskatchewan a special appropriation of $\$ 5,000,000$ for trunk roads, was made at the last session of the Legislature, of which $\$ 1,500$,
000 will be spent this 000 will be spent this, year, in addition to the
usual appropriation of $\$ 400,000$ from current revenue. In Alberta a special grant of $\$ 1,000$, 000 was made this year for a central north-and south trunk foad in addition to the usual sum of
$\$ 250,000$ from current rever rent revenue
MANITOBA.
Manitboa has for several years had a Provincial Highway Commissioner whose duties were largely
educational. At the last session of the Legis lature (January 1912), two important acts were passed. One of thes?, the Act Representing wrovprovincial aid to main roads. Townships are permitted to lay out a special systemships of main highways, and the plans with specifications are partment. If approved by the Provincial partment. If approved by the Provincial debentures and proceed with the work, receiving a grant of two-thirds of the expenditure from the Province. In this way it is expected that a constructed. The other Act, known as ""The Good Roads Act", is one which relates to minor roads, and does not provide provincial aid; but
requires any township undertaking the improvement of any these roaship to subdertakiting the improvement of these roads to submit the plans to the
Provincial authorities; and upon approval, the township may issue 50-year debentures to meet the cost-which debentures may be guaranteed or purchased by the Provincial Government. The
work done under this Act is also subject to the inspection and approval of the Provincial Highways Commissioner

## ontario

Ontario is, physically, in two parts-Old On plete municipal organization, and and with comthern Ontario, now being opened for settlement In New Ontario, the Provincial Government is this year spending about $\$ 850,000$ on colonization roads-opening and grading the road allow-
ance-and about $\$ 250,000$ for bridges. In Old ance-and about $\$ 250,000$ for bridges. In Old
Ontario, the local municipalities are spending yearly about $1,100,000$ days of statute labor, and $\$ 1,400,000$ in cash. A large proportion of the latter goes into durable concrete culverts, and
concrete and steel bridges. The Highway inprovement Act of Ontario is one of the most successful of Canadian road measures. County councils (composed of the reeves of the local ered to pass a by-law assuming for construction and maintenance a system of main highways. To this work the Provincial Government contributes one-third of the cost of construction as the work
progresses. The Provincial Highway Din progresses. The Provincial Highway Department management, inspects from time to time, and cooperates with the municipalities to obtain good county councils through their own county the gineer. This Act has been in operation eneleven years, and the annual outlay under it is steadily increasing. In 1911 the total expenditure was $\$ 711,000$, of which the Provinces contional in its aim, but at the same time is pro ducing much excellent work at a low cost. The educational effect has several features:-
(1) It brings abourt an increasingly
(1) It brings about an increasingly high stan-
dard of road construction, which teaches public what good roads are, and how they should be built.
(2) It instructs county councillors in road onstruction and impresses upon them the prin(3) The roads and organization become models which are observed and imitated by the township councils, so that all roads are affected.
(4) It enables the Provincial Highway Depart (4) It enables the Provincial Highway Depart investigation, in an effective way.
The Ontario Highway Department is also con-
sole cost at various points, model roads at the tribution from the municipality in which the con-

The Province of Quebec has been extremely adopted several measures of a progtruction, and ha character. (1) The Province loans roádmaking machinery to municipalities making request, and has ten complete outfits for this purpose.
(2) Grants are made which dispense labor tax, and build municipalities durable gravel or stone road build an extent of a) total of 1,000 townships are this year out o advantage of the measures.
(3) The sum of $\$ 10,000,000$, borrowed under ways. Municipalities may set aside for main highdraw upon that sum, and for their construction neet one-half the interest ( $2 \%$ ) on the monies so used for the term of the bond issue, the province terest. (4) Three provincial highways aggregating 350 mises in length, are now under construction 350 this work the local municipalities pay $\$ 1,000$ per mile, and the Provincial Government contributes
the remainder. NEW BRUNSWICK.
broad policy Brwick has not as yet developed a tion, but the Provincial Engineer road construccontribution to county and parish means of a is enabled to bring technical instructions to 000 annually for this province appropriated $\$ 100$ NOVA SCOTIA
Noad question is very actively canvassing the county organiz The province is sub-divided the statute labor tax amp, and the counties levy a annually. But the province to about $\$ 250,000$ 000 annually on road construction through an
active and well-organized Provincial Hin partment. The province constructs all bridges
costing over er $\$ 500$.
Prince Edward EDWARD ISLAND
the most fertile of the Provinces, has but one of the cas in the Gulf of St. Lawrence an isolated organization, two cities, there is no municipal ercises direct control of all the roads. The Provhaving about 100 miles of road, and a road each seer is in charge of the work in each. The over ing spends about $\$ 32,000$ annually in maintain has yet been done.

THE FEDERAL GOVERNMENT.
introduced a Bill to provide for the last session inces, to aid in highway improvement; to be disvide for according to population, and also to proDominion. The Bill passed the House by the mons, but the Senate, while approving of Comsidies, objected to the while approving of sub-
making direct the senate were not expenditure. The amendments of ment, the Bill was not acceptable to the Governof Commons, and the measure thus failed to beSUMMARY.
present, without systems have been, to the present, without enormous government appropria-
tions or oother spectacular features, and construe
tion tion as a rule has been of a comparatively pensive type. Rather it is sought to build as
substantially as possible substantially as possible for present requirements, that will ?hicken and widen the road crust ance traffic requires. Such a policy will, we belien as lead to the more rapid and economical extension
of good roads, without creating large public debts
that will Summarizing the the future. provinces have about 250,000 miles the Canadian highways. Each of the provincial governments oontributes directly to road improvement; gener-
ally in the form of provincial grants, where cipal organizations permit. Such grants muniy directed help the people to help grants right
omemselves all energy into one effort highly educative value. Each of the provinces with which the educational object building roads associated. The Canadian High is more or less
is now carrying on an extensive propacandion onstruct a road 4,000 miles in lenyth from Thali

made in millions where they were ormerly madein thousands. This year the total provincial examount to $\$ 10,000,000$. Canada has devel will splendid railway and waterway systems, but it ing is being entered of common highway buildtrunk linies of transportation with the homes and daily life of the people.

Plant Breeding at Svalof. Arter many years of patient research at the tion, Svalof, in regard to the variation and im provement of plants, the general conclusions of in L. H. Newman's recent work, "Plant Breeding (a) A progressive cannot be a one-side system of plant improvement all possible methods of reaching the desired end. valuable Artificial hybridization provides an intions of chearacters of producing superior combinain nature, and this method is now used largely (c) The old system of 'mass-selection' can stin
be of value in special cases, and has never been
fully abandoned. mixed vaperiety, but since these need no found in a ily possess striking botanical or morphecessar-
characters, their isolation, on the basis of ofical
characters, cannot safely be effected

## That Clover Silage.

Editor "'The Farmer's Advocter
I was particularly interested, upon looking
over the issue of Oct. 3rd of "The Farmp over the issue of Oct. Srd of "The Farmer's Ad-
vocate" to note an account of an experimen
cond ensilacted at Weldwood, in connection with clon to think that the that Weldwood scheme. I like engaged in the same business paper is actively practice, and that the advances are worked out in been ripened by experience. And of his pen has fairness with which the results of the operations conducted from time to time, are given for our cover up, or gild over failures. This made to humble opinion is one of the strong points in the general efficiency of "The Farmer's Advocate." failures of others, than from their observing the makes us think, and we look around fuccess? It or for a way in which that same failure might solution. and sometimes we strike the happy The s
failure, slight mish the editor - - would not call it a at Weldwood, in connection with the clover eny as this has tien atcention at once, particulartime. I have never tried it as yet mine for some the idea, that thus far, but I have always cherished as the editor a considerable quantity of clover depth sufficient to apply great pressure, would
make a pretty desirable form of silage Or perhaps better still, a smaller quantity
der filled the bottom of the silo, and the remain sure, and also saturate corn to supply the pres extent with its juice, might keep to a a certain are, and make a perfect summer food for cows,
and,-also how But whether it would it do for hogs?
ure does not a success or fail as corr is king. With it wencern us vitally, so failmy determination, With it we are safe. But it is experiment a little along this line in the near
future. There is an old saying that "varien
the spice of life," the spice of life," but I saying that "variety is
privilege as farmers to spice of life by experimenting a good deal of the
then in our farming now and [Note.-Thanks for this MAC. pose of Weldwood is exactly what our correspon-
dent divines. As. for cher that if it can be made a success ensilage we behieve manner proposed, or else by mixing with corn at filling. By all means experiment but, profiting by
our experience, avoid risking too much.-Editor.]

## Difference in Seasons,

will state that this of the difference in seasons we
at the Illed two old silos o corn, whereas two years ago wem twelve acres

Ropes, Halters, Splices, Knots an Hies. Ropes, rope-halters, splices, knots, and ties
ere something which every person working are something which every person working on the self, makes use of every day in the year. The such persons familiarize themsebves with these different uses, and, as an aid to this, the ac companying illustrations will be found of benefit Cornell bulletin, and we can do laken from a than repeat it.


Fig. 58


Whipins
fastening the strands is needed, the wall knot right, and bend each rope back on itself (see Fig ""This is made according to the following same side of C. Wrapes A and B are on the directions:-Unlay the rope for five or ten inches end, producing the knot around the other rope rope in the left hand, with the size. Holding the A and B being still on the same side of C. take any strand, as No. 1, lav it down across take for a Knot.-This is frequently tied in mis the rope with the end toward the right, and hold strain, and is very hard to untie when slip unde Th 56. Take the next strand to the shown in Fig. point at which a granny knot may be detected and pass it around the end of Nosition shown in Fig. 114. Ropes $A$ by the arrow in Fig. 56 . Before releasing No. 2, and B are not on the same side of C, as the take the left thumb of No. 1 and use it to hold knot is completed, they are still wrong, as shown
No. 2, as in Fig. 57 . Strand No. 3 is now to be in Fig. 115.



Fig. 56


Fig. 57
"Binding the end of a rope with twine to prevent it from untwisting is called whippingRopes that are to be passed through pulley
blocks, or, like halter ropes, through small holes, should be finished in this waygh A matholes, doing this so that both ends of the twine are fastened by tucking under the whipping is as
follows :-follows:- "Unlay one strand of the rope back to the point where the whipping is to begin. Under this
strand lay the twine, leaving the end inches lay the twine, leaving the end eight or ten
inhown in Fig. 51, and then relay the strand into the rope, keeping it twisted up
passed around the end of No. 2 and up through Fig. 57, and as shown in Fig. 58 arrow in should next be tightened by pulling all of the strands one after the other. The last steps are to pull the strands closely together in the center, them, and cut the strands sufficiently long to insure their not pulling baok.
"Miller's Knot.-This knot is especially adapt ed to tying up grain and flour sacks; it is also useful in place of a clove hitch in fastening a rope
to an object whose ends can not be reached, such

## Wall Knot Begun.

Slip Rnot--This knot, the simplest slip loop possible, may be made starting either with the pig. 124 as shown in Fig. 122 or with that in Fig. 124, whichever is easier for the person tying
the loop. When beginning with Fig. 122, grasp the end of the rope in the left hand and, bring ing the right hand upward, pick up a bight of the rope on the wrist as shown. Bend the wrist sittle finger touches the short end of and the Then rotate the wrist as shown by the ropee arrow. This will cross the sides of the bight



Fig. 59


Fig. 60


FIG. 90


Miller's Knot
tightly and pulled down hard into its place as directed for relaying. If an especially secure whipping is to be made, the twine may be tied about the strand under which it is tucked; usulong end of the twine around both the rope and short end of the twine, being careful to pull it up tightly and to leave no vacant spaces between corns. When about half the desired distance is as to form a bight extending out beyond the so bight rope and begin whipping both sides of the
bight, as shown in Fig. 52. Continue whipping
as a post in a barn. Take a round turn about
the neck of the sack or fixed object ropes in doing so, as shown in Fig. 90 . Raise the main rope just above the crossing, pass the (Fige end under, as in Fig. 91, and draw up tightly (Fig. 92). This hitch may be loosened by graspto the right or left, as the case may be. around "In tying sacks, it is convenient to hold the mouth of the sack shut with the left hand, en. finger of the left hand in such ack and the little finger of the left hand in such a way that the
ame time will bring the main rope in between he thumb and the first finger, as shown in Fig 123 and as indicated by the lower arrow in Fig Grasp the main rope and draw a bight up "In starting with the positions. as shown in Fig. 124, the ond is held in thie left hand and the oop formed by twirling the rope to the right hand. is held im the left hand easy, provided the end ald in the left hand at the beginning.
"'Hitching Tie.-This knot is used for hitching
tie rope to a post. It is made go follows. a tie rope to a post. It is made as follows.

IG. 114
Fig. 115
Granny Kn

## 

Fig. 122


Fig. ${ }^{2} 3$


Fig. 124


Fig. 125
the twine desired, and then pass the long end of Fig. 91. The twine is brought on around the as in Fig. 53. By pulling on the free end of the the first wrap of twing in a direction dack under bigit, draw the long end of the twine downward upward from left to right a direction diagonally Fig. 54). Finish the whipping as it will go (see "Square Knot.-This, the most frequently both loose Finish the whipping by cutting off used of all knots, is secure when set, and may bs sinle The complsted result is shown in Fig. 55. should be taken not to make a mranny it, care a rope is Kot.- When a small knob on the end of description below) a rope is desirable, or when such a knob is not
objectionable, and a quick and secure method of
"Pass the rope around the post from left to the bight in the a bight. Grasp both sides o hand throw the short end across the ropes in front of the left hand, as indicated by the arrow in Fig. 126, thus forming a second bight below second bight, as in Fig. 127, and pull the bight down through which the and of the rope is passed as shown in Fig. 128 . Pull the knot up tightly,
There is a right way and a wrong way to leave
this tie when hitching to a plain post without a with the left hand bring the long rope up and knots being all pulled down, the splice appears slipping down. If the knot is twisted around to by the arrow in Fig. 135 and as shown in Fig. one tuck toward the each strand of the left rope
the right of the post, as in FFig. 124, as and the tie rope will draw the rope tightly about the post and will thus prevent it from slipping down if, on the other hand, the knot is at the left, as
in Fig. 130, a pull will not in Fig. 130, a pull will not tighten it and it
will slip down.
"Halter Tie.-This is a knot preferred by some o the hitching tie, just described, for use in


Fig. 126


FIG. 127

Fig. 128

 ing back the ends in crowning (Fig 164) splicsplice will now appear as shown in Fig The Tuck each of the other three strands once to the left. The splice will hold if carried no farther and therefore if only a rough jor is desired, the a half inch from the rope. If a nicely finished is desired, however, finish the splice as through the the right hand draw the end up long rope from right to left, as indicated by the Pass in Fig. 136 and as shown in Fig. 137. again from above, as indicated by the arrow in Fig. 137, and as shown in Fig. 138. Note that
this knot consists of a loop with a bight up

Hitching Tie Finished


Fig. 129
FIG. 130

Hitching Tie Begun.
Kitching or in tying the halter rope in the stall. some cases in place of the und may be used in
somand bowline knot. The halter tie should never be used around a horse's neck, because if the tie is not
set up correctly, it forms a might result in strangulation of the animal its use the end of the rope upward through the ring, then downward on the left of the long rope, grasping with the left hand, as shown in ting the long rope
. the bight going around behind the "Short Splice.-To join the ends of two ropes the shorlacing or weaving their strands together, strands of one rope are woven into the other rope at one place, the rope at that place is six strands thick, and the splice is of necessity considerably larger than the original rope. The short splice strands at through pulley blocks. Untwist the
rected for Figs 165
shown in Fig. 166.
hown in Fig. 166. and 166, giving the ssults cattle and for young is used very lare !y for horses. A knoweledge of the manner of making his halter may be valuable in an emergency. Procure rope of the proper size and length as
directed in the table herewith. Measure from ne end to A (Fig. 186) the distance geasure from table, and with a lead pencil mark the point. with a lead pencil mark the point.


Halter Tie Finished.
the end to the right and upward, as indicated by the arrow in Fig. 131, thus supporting the long
rope as shown in Fig. 132. Now pass the rope as shown in Fii. 132. Now pass the end
of the rope over, under, and again over the long rope, as indicated by the arrow in 132 and as
ron shown in Fig. 183. Draw the end through as in
Fig. 134; and set the knot by Fig. 134; and set the knot by pulling first on the
short end. This is important. If the long rope is pulled first and the kinks in it ar straightened out, the tie forms a slip knot, being
simply two half hitches around the rope.


Fig. 163.
Short Splice, Second Stane
Bowline Kinot.-This is the best knot known for forming a loop that will not slip under strain and that may be easily untied. The following is known as the overhand the bowline knot. It used when standing opposite the end of a slack rope and making a loop that is not fastened to any object. With the right hand lay the end of
the rope over the long rope and with the the rope over the long rope, and with the left
hand craisp the long rope below the crossing Fig. 135. Hold the right hand stationary, and


Fig. 164
Short Splice, Third Stage.
Six to fifteen inches or more, depending on the
size of the rope. Butt these ends tightly to.
gether, laying each strand of each end between
two strands fom the other end, as strand A is
between strands B and D , C between D and F .
and so on. This process we may call
and bet ween strands B and $\mathrm{D}, \mathrm{C}$ between D and F ,
and so on. This process we may call lock ing
the strands. With a simple overhand knot, tie

## 

Fig. 166.
Short Splice, Completed
each strand strand of the of one rope to the corresponmin are particularly the way in which this knot ins is the corresponding just be


Sowline Knot, OVerhand Method.
quired distance to B and mark the rope. Bend
the rope at A to form a bight knees with the bend toward the right it on the short rope away from the body (see Fig. 186). Raise the top strand of the rope at $\mathbf{B}$ and pass
the long end through under it awa ody, using the whole under it away from the arrow in Fig. 186, and pull the rope through
until $A$ is at the end of the until A
Fig. 187. at the end of the loop as as thown in end and pass the short end through under it from


Fig. 165
thort splice, Feurth Stage
left to right, as indicated by the arrow in Fig,
187, and pull up tightly as shown in Fig. 188 From 13 measure along the short end in Fig. 188. given in the table to C , and from A measure along he long end to D (Fig 189.) is shown in Figs. 190 and the guard loop type lows: Form the halter over the knoceed as folee to the left. the short end over the knee for he head piece, the long end in front for the nos , Aiece At the mark C on the short for the nose piece. At the mark C on the short for the nose
outsiate strand and the
from front to the lack up to the mand end through

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189. Just back to this c. Sssing, raise the out
side strand of the lont! end a 1 ( ass the slio through from below, as inu rated by the arrow ${ }^{2}$ "Pass the long end throu, in Fig. 188 the short end, as in Fig. 190 , if the halter is to the short end, as in Fig. 190 if the halter is to
bo of the loose guard typ. If a standard guard loop halter is desired, whip the short end to the
long one, as in Fig. 191. long one, as in Fig. 191.
 strands of hatere short end down to the mark C . and as indicated in Fig. 192. Raise the outside etrend of the long end at D and pass downward ander it the middle outside strand of the short
end; pulling' it down until marl of crossing, as shown in Fig. 192: The strands should now, be arranged exactly as show in in Fig.
180 . Complete the splice as directed for the side 180. 'Complete the splice as directed for the side
splice, and then pass the long end through the eye, as in Frig. then . 193 .ass the long end through the
Finish the end by whipping or by crowning.
Emergency Rope Bridle or Halter.-In the known as a phackamore. The halter shown in
kne Fig. 200 is known to sailors as a running turk's other vessel of similar shape. Procure enough fect will be required. Form reins; about forty dle of the rope, and form a bight at the midhack, laying it over the straight ropes, as in Fig 196. This forms two loops. Pass the left loop

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measurements in inches



Fig. 189

C. 190

A upward through the right one, B, as indicated 197. Fold loop A back, bringing it farther Fig. the original bight was carried, and lay it on the top of the straight ropes, as indicated by the The left side of loop B we may call in Fig, 198. lett-hand straight rope we may call D, and the right side of loop B at the bottom we may call
E (see Figs. E (see Figs. 198 and 199).
Move C to the right, as indicated by the arrow in Fig. 198 and as shown in Fig. 199 starting at the left of $C$ and beyond $D$, reach nder $D$ and grasp $E$ at a point between the draight ropes. Draw E down under D and then arrow theugh the opening, as indicated by the turk's hil top of the loop. Draw Fig. 200, E being at the ropes, Draw together the two center This, as indicated by the arrows in Fig. 200. piece, head-es a briale complete with bit, nosebridle is not suitable reins (Fig. 201). Such a Sure, but it will be found useful. in service, to be IPRMMATE DIMENSIONS FOR ROPE HALTERS-ROPE TO BE USED
To be used for.


## Fapm Bookkeepingo.

Farmers' Bulletin 511 of the United States Farmers' Bulletin $\mathbf{5 1 1}$ of the United States esting facts and recommendations in connection with bookkeeping on the farm. "That there are over six million farms in that country which utilize land, labor, and capital as means of income making, gives the author the opportunity to discuss the subject of the value of the farmer keeping an accurate and systematic acoount of his farm management the same as the business man or the rairoad magnate. This bulletin is not an attempt to outline a system of bookkeeping for the farmer. It is rather a discussion of the principles which are applicable to accounts studies this. It is believed that any farmer who LOnS End Atin) A

Fig. 187
Fig. 188
FIG. 186

Fig. 191.

(191) Standard Guard-loop Typer 192


FIG, 193

## AGRICULTURE ON GOVERNMENT FARMS-III. <br> \section*{THE HAMLLTON ASYLUM FARM}

 Hamilton is known by many as the ambitiouscity, but ambition does not end with the city city, but ambition does not end with the city
linits for just beyond them on the brow of the
mountain dominating the entire city of beautiful mountain dominating the entire city of beautiful
homes, shady parks and solid business blocks, and overlooking the peaceful boy dotted here and there with specks-various craft for business and pleasure-is a farm consisting of 528 acres, which
under the surveilant eye of W.M. English. M. D. been brought to a state where in many respects it may be considered a "model", farm, and with all the success which has crownied the efforts of those in charge they still aspire to greater things,
and are earnestly striving each year to eclipse and are earnestly striving each yeal It is just
previous high records.
262 - steps to clinb from the foot of 262 steps to cling from the foot of
the mountain to the plateau on the mountain to the plateau on
top, but were there many times the number anyone interested in. agri-
culture would be well repaid for the effort necessary, for far more steps than these have been made in the advance of farm undertakings con-
nected with the institution, and there is something for all to learn. Dr. English has been in charge for about five years, and the farm foreman, F. M. Regan, is commencing men are not only heavy-weights physically, but also in practical and scientific knowledge of all branches work, enthusiastic over past work, enthusiastic over past re-
coryds and future possibilities, there is no wonder that success awaits them at every turn
THE DAIRY HERD FIRST.

$$
\begin{aligned}
& \text { As is the case on many Cana- } \\
& \text { lian farms and on all the Govern- }
\end{aligned}
$$ dian farms and on all the Government farins yet visited, dairying is

the main spoke in the wheel of
farm operations, in fact it is practically the "hub" of them all, or to use an old-fashioned simile, the backbone of the farming carried on. During the cows were in the herd for the entire year, and they
milked on an averave of 262 days each daily an average of 31.6 pounds of milk, the best record being $11,020 \mathrm{~ms}$. of milk or an average of forty-three pounds daily. No cow gave less
that 5,108 libs., and the herd gave 425,295 thes. of milk 804.72 , the milk costing $\$ 95.4 \mathrm{c}$. per cwt., at $\$ 6$, , duce. This is last year's record, and to show that progress is being made and made rapidly, a purehred Holstein heifer, Elizabeth Tohanna De Boer as a two-year-old has given 12,383 tbs. of milk
in 370 days. Annther cow has given 12,333 ths. in 263 days or 46 lis. per day. a third has given
13,859 lbs. in ath days or noarly 41 lus. daily,
a fourth has produced a fourth has produced
9,192 lbs. in $22!$
or days
or or 41 lbs. per day.
These four are ull purehrod, but a grade has
produced 11,294 lhs. in 299 dayss or 38 lhs. per day. The best of them
all is Mechthildo Ruby all is Mechthilde Ruby
Burke, a five-yearold Burke, a five-year-old
cow which in 306 days milking twice per day
gave $14,466 \mathrm{lbs}$. of milk, an average of 47.27 lbs .
daily. These are records daily. These are records
which could not fail to whease the most critical in this herd have given an average of 62 givs daily in a seven day test.
and when at the farm milked from a cow in the evening which had given
9 lbs. in the morning and the milk the hat had been milking six weeks. Grade two-year-old heifers
backbone of the farming carried on. During the row of stalls. The trough is flushed out two ur
fiscal year of 1911 a reeord was made of which three times weekly, and both Dr. English and
those in charge may well feel proud. Forty-two Mr. Regan think it is those in charge may well feel proud. Forty-two Mr. Regan think it is more sanit. English and

 grade Shorthorns. A start was made in pure floor, making it vermin proof. $\begin{aligned} & \text { greds three and one-half years ago, and all the cement were also the partitions in the beginning, but on }\end{aligned}$ Temale increase has been kept since. Previous to of the pail forming the stonl for the milker. A hake cemented and soild doors will in time
that time a pure-bred Holstein sire had heen at tuhe or nipe leads to the pail, and in it a strainer penc are pice of the wire. The fronts of the
the head of the herd. At the present time two is placed to milk in

are giving 36 lbs. daily, and altogether a better pulped ros much of the former as of the latter, with twice as much of the former as of the latter, with in such a manner, line of central partitions
maten rots added.
A feature of the dairy stable is are female increase has been kept since. Previous to of the pail forming the stonl for the pails, the top hecount of the pigs fighting the partitions have


## The Young Herd

Heifers on the Asylum Farm, Hamilton, Ont. rulped roots added.
heifers are entered in the R. O. P. tests, some-
thing which none of the other institution thing whi
yet tried.
The slable accommodates fifty cows tied ten in
each of five rows. At either end there bach of five rows. At either end there are three are used, the chains being ten feet. Chain ties each side of the stall, the tie being in the center Dr. English believes that this gives in the center.
more freedom to the cows than stanchion ties. The stalls are each five feet six inches long and three feet six
inches wide. The floor is cement has a cement front two feet six inches high. The cattle are watered from a continuous halv. The cattle are watered from a continuous galvanized
iron trough, running the entire length of each


Elizabeth Johanna De Boer
a a two-year-old, this heiter gave 12,383 lbs. of milk in 370 days. Photo
taken immediately after being milked. milked. One of vidual drinking bowls, which they found thitary indi-
dither ind difficult to keep clean. Thich they found rather
whitewashed stables are all whitewashed, are about eleven feet in height from the floor, are well lighted and kept supplied with About fifty the king system of ventilation. stock, the promising heifers being the the yource from which the herd is replenished. The herd is fed the year round regardless of pastures. The grain
ration winter and summer is sisting of bran, oats and wheat, about ounds, coneach. Silage is fed until the end of June. The winter roughage ration is a bushel to each cow twice per day, consisting of hay and silage, about swill an
about the
 are finished at from six to eight month the pigs weighing froin 200 to 250 pounds each, live
weight. The piggery is an feet wide, and having two sections each fifty hundred feet long, one on either side of ach one feed and storage room forty-five feet by afty feet capacity in ohe corner, and cellar of 500 bushels in another. The pen is built of lumbrain bin studded up with four by four scantling with being thickness of building paper and matched lumber eighteen inches higher One side of the pen is cighteen inches higher than the other, leaving this
space along the peak for windows and windows and ventilation
every second window be
ing on the ventilato shaft on to be ventilator
closed as required or closed as required. There
are thirty-ight pens in are thirty-eight pens in
the building, the size being twenty feet long by ten feet wide. The width of the piggery being fifty
feet, there is just room feet, there is just room
for a twenty-foot pen on eor a twenty-foot pen on
either side of the ten-
foot central These twenty-foot passage
are divided in by cement partitions center back portion being util ized as a secluded sleeping pen, which has a
raised plank floor over raised plank floor over
the cement to ensure dry ness, and prevent rheuma tiss, and prevent rheuma-
Feed cappled" pigs. Feed carriers run from the feed room down the
center passage, and litter carriers run the entire length of the entire
through pens through doors from pen to pen, situated along the no. dirt gets into the to be poured into the cement troughs. Each pen
milk. The milk from each cow is carefully weighed in the milking room, and the milk is then taken in each department of the institution. refigerators thing is sanitary, and the mill is produced under ery favorable eonditions.
The herd is how headed by Sir Canary Ormsby, as nice a type of three-year-old Holstein bull as any breeder could wish. Being developed to take grandson of Lady Aaggie De Kol, the Posch, a 1910 sweepstakes cow at the Guelph dairy test. He is bred in the purple. With such foundation stock, grades and pure-breds, and under such careful man-
agement, this great herd cannot but quality and production. Constitution will not be sacrificed, however as Dr. English believes this to be
one of the best assets of the and heifers, he believes, should herd, drop their first calves until at least twenty-six to twenty-eight months of age. Such is the past record of this great herd. The future is as-
sured. PIGS ARE PROFITABLE Pigs and milk cows work hand Canadian farms. There is nothing quite so suitable for young pigs as skim milk, and the cows furnish cord-breaker dairy herd and is re ed for profitable pork production there is no connection between the cows and the pigs, as the latter
never get a drop of milk other then never get a drop of milk other than
that furnished by their mothers, which supply is cut off at weaning, and the young pigs must weaning, and make satisfactory gains on other feed. Kitchen refuse or swill forms the bulk of the ration, especially of the younger pigs, and it
is found quite satisfactory, and is found quite satisfactory, and and
Ithe

 of pounds of green onions, and over six ton
has a cement-walled and cement-floored outside of eight pounds of red clover and four pounds of
ompartment ten feet by twelve feet, with a timothy per acre,
cement walk around the entire coment walk around the entire structure. At
either end of the building is a cement-bottomed manure yard fifty feet square, where the liquid
from the pens drains easily, there being inches fall from each section of the pen. From the manure yard there is a drain to a precipitating tank, so that there is practically no foul
odor in or around the pen, which to ensure porfect ventilation has sixteen four-inche mipe harough the wall, gnd extending up to about loot and a half of the ceiling. These with the abundance of light and good drainage facilities aake a very sanitary pen.
orkshires and pure-bred Berkshires. breeds are crossed for feeding purposes, better re sults being obtained from pigs of
one cross than pure-breds in fattenone cross than pure-breds in fattenmore prolific than Berkshires. Sows
mrop litters of from nine to thirteen drop litters of from nine to thirteen pigs, and raise on the average eight
of these. Two hundred feeding pigs of all ages are on hand at the present time. Shorts forms the concontrate ration for the young pigs,
land cornmeal is used for finishing. And cornmeal is used for finishing. hot water is on tap in the piggery
at all times. Tobacco stems are used exclusively for bedding. Al the pigs fed are killed on the place,
about 300 being slaughtered yearly at an average weight of 225 yearly each, or a total of 67,500 lbs. of pork, which valued at 6.5 cents per lb . is worth $\$ 4.387 .50$, a very good
return for the pigs.

POULTRY.
The poultry department, while not so large as some other phases of vanced practical lines. vanced practical lines. Three poul-
try houses modelled after the well known twenty-foot by twenty-foo open-front house, recommended by
Prof. Graham, of the O. A. C. Prof. Graham, of the O. A. C., con
stitute the plant, which is to brought up to ten such houses to be brought up to ten such houses to ac
commodate 1,000 laying hens o pure-bred Barred Plymouth Rock and Rhode Isla Red breeds, selected from laying strains of these of eggs gathered. A. Hens are not kept after kept years of age. Thirty-five pullets in one pen two menced laying in November 1911, and during December, January and February produced from twenty-five to thirty eggs daily. Seventy
laying hens produced last March
1,270 egrs. Chickens are hatched in three incubators, one eggs egge and two one-hundred-and-twenty-egg machines The Cockerels are crate-fattened for three weeks, ducks are to be raised extensively is to be made one of the main features of the farm, chiefly through laying strains of the best


Mechthilde Ruby Burke.
(1) Hech the herd at the Hamilton Asylum Farm. Hecord,
14,466 lbs. of mill in $\mathbf{8 0 6}$ days.
ieet by forty feet. The blocks have been made- poss 1,600 in number-in wooden moulds on the farm, forcing rod. Silage and alfalla are two of the main crops for the dairy farm.

GARDEET CROPS BY THE TON
About thirty acres of land is devoted to i
tensive horticuiture. land is weighed, and is not measured in pounds but tons.- The land is a heavy clay loam, about fifteen acres being in apples which last year proeasily reach seventy tons. The this year will gets no manure, and is operated on the clean cultivation plan. It has been sprayed twice each season for two years, and thanks to this the apples are improving yearly in size and quality.
Fifty plum trees produced four pas $\qquad$ ne an

The farm is well tilled and well managed, every aveilable inch being put to some remunerwhich was As an instance of this the last farm places this with scrubly undergrowth. In many places this had crowded for several yards out of the good soil. These raws have been cleaned
of and was up, and useless trees uprooted. Many others might take a good lesson from this as not only does it improve appearances; but it renders land therwise worthless, productive.
The present silo is rect fourteen feet by eighteen feet prestar in shape fourteen feet by eighteen feet and thirty feet
high. It has, given good satisfaction, but is to
be replaced by a cement-block be replaced by a cement-block structure twenty purpose breeds or how. - fity carrots nine tons, while the same acreage o tomatoes, $1,437 \mathrm{~ms}$. of radishes, $6,107 \mathrm{lbs}$. of lettuce and 3,532 1bs. of spinach have been taken off. Large yields are possible where the land is
well fertilized and well cultivated. The garden rotation is-cabbage, tomatoes, carrots following each other, and with every root crop a heavy application of manure is made.
As with other farms which have formed the subject for this series of articles, it is impossibl An ice pond, 340 feet long by 120 feet wide sayd five feet deep, fill feet long by 120 feet wide and absolutely pure water-is apring on the farmpure water-is the source of a pure,
handy and abundant ice supply.
Little features like this are deperve Little features like this are deserving of special mention if space were to be expected in agriculture on these farms. It is now contom
plated in connection with this farm plated in connection with this farm to operate a large peach orchard,
probably nearly one hundred acres, the fruit to be used at the institu tion, and at other institutions of the kind not situated in the fruit cultural expert, who acts in an ad visory capacity to the superintendent, of all these institutions, and the able staff of the latter in charge
are raising the standard of ture as carried on at these farm very rapidly. Their work may be made instructive and helpful to agriculture generally, for many of wholly or in part to average farm conditions.

The Fipst Year at Weldwood
Roport of the average experiment seldom sees the light of dax orable-that is to say, in ach ord with the experimenter's purBetween 250 and 300 acres of the farm comes whice the general rotation hoed crop. About thirty tatoes and fifteen acres atoes and fifteen acres o mangels and turnips ar
grown annually. Gian sugar beets and yellow in termediate mangels are the best yielding varieties. Nearly forty acres of alfal
fa is one of the importan crops one of the important
farm. The main farm is a fairly heavy clay, and is nearly all un derdrained. The last par
cel purchased, consisting of ${ }_{176}$ el purchased, consisting o $\begin{array}{ll}\text { years acres, } & \text { added three } \\ \text { lighter soil, but will bemat }\end{array}$ lighter soil, but will be
underdrained as soon as underdrained as
possible.
coon as
corn crone
of the the on account failed this year and to take its porace seed mil-
let and third-cutting al falfa are being ensiled
with the with the corn in propor-
tion of one of millet to
eight eight of corn. Of the cereal crops oats
form the major portion,
viel yielding the major portion, and this year are Aboit twenty-five acres of winter wheat is grown annially, it being highly valued for feed an
bedding, bedding purposes. Red clover is one of the main
crofw, and is relied upon to aid materially in are to be seal fertility. Some very fine catches


At Home in Alfalfa.
A part of the dairy herd at the Hamilton Asylum.
of grapes one and one-half tons. Winter pruning of grapes one and one-half tons. Winter pruning like a very unf
is practiced, and lime sulphur and arsenate of the first year.
lead forms. the spraving mixture used.
 ablew people realize the possibilities of veget- it, which put considered in connection some with which may be taken fromount of various crops Our own view of the at face on the matter. are almost incredible. In this garden one acre from the fact that the area of the farm was and are almost incredible. In this garden one acre from the fact that the area of the farm was en-
of rhubarb produced this season eleven tons of tiguous 25 acres which the purchase of a con-
stalks, less than an acre of onions on the market last

## THE FARMER'S ADVOCATE.

initial expenses and handicaps. It is unnecessary to dilate to any farmer or
other business man upon the handicaps besetting a first-year's operations, such as the time lost out, set up, and start a full stock of implements purchasing unproven live stock picked up here and TJ acquainted with all the particular features of one's farm, stock and plant in general. Seldom, ther, is a farm in condition to commence the line of cropping one proposes to follow, and all sorts of tance, on taking possession of Weldwood, For inhorse or hog padoock that it was safe to turn a marked, "Every time you experienced friend rehave to do two or three other things first." you is a general experience in almost any business that the first year is by all odds the hardest
year, and farming is no exception to the rusing year, and farming is no exception to the rule. A should be regarded as an exceedingly food one DROUTH AND SHORT CROPS
with a season of short orops, first year coincided the hottest and driest, while the ensuing being was the hardest within while the ensuing winter producers the shortage in quantity. with many product up-to-date has been milk, but our main higher prices prevailed locally than in form no fears, when feed was plentiful and cost of pro course) last winter during sold milk (wholesale of Cor less cash per hundredweight than months, ceived by creamery patrons getting their skim ailk to the good. With a dairy and cream sepion are now in a more resourceful posiUNSTATED PROFITS FROM INCREASED As a matter of fact we could have made a
much better showing by selling the crops for cash. This, however, would have been robt bing the land, whereas by buyld have been rob-
use with what we had, we some feed to use with what whereas by buying some feed to y carefully saving and applying the manure we apparent by the effiched the farm, as is already and will be cumulatively evident as years crops, Could it be accurately appraised, it would really the inventory for increased fortility dollars in loads of manure put out, of which about the 280 dred was on hand when the place was bought
but none of which but none of which could be applied in time th
benefit last summer's crops. We might low something for decided progress might also a duing weeds and other pests, buit it would in sub easy to estimate these improvements fould not b
besides it would Agure out profits on paper, mo we like trying to out of consideration. The benefits should appear the form of future profits.

PLANNED ON A PERMANE'NT BASIS
or a permanent system of to lay the foundation ollars was expended for clover and timothy seed and not a bite of the new seeding was grazed last August, while part of the area was top-dressed even the oat seeding, unpromising a consequence last summer, cut, over a ton and a half of excel cont hay per acre with expectations of a small acres of land was plowed and worked last Eighteen after haying and harvest with a view tomer radication of bindweed. Ten acres of thin woodwith seedling trees deliberately kept off the place last summer was order to eliminate parasites and disease from the premises. Various pests with which the premises And so throughout. All these factors minated. against temporary success in revenue production,
but we believe they will pay in the end ATTENTION CONCENTRATED UPON IM CONCENTRAT
PROVEMENTS
Durine 1911, and to a considerable extent
during 1912, attention upon improvements rather than upon production as may be inferred from the details which have
been published from time to been published from time to time. Some of the
more important outlays incurred were for tilin seven acres of land and seeding ten acres to al falfa; building a silo, $14 \times 40$; an implement root cellar underneath ; rearranging cath with bles, cementing the floors and installing stanchions and litter carrier: bringing water the stable and barnyard; building poultry houses These eighteen or twenty more or less importan wetterments costing a trifle over three thousand dollars, have all been very carefully thought out
in consonance with the general scheme of the farm or a barrel of cement never being spared to make things solid and good. It is perhaps sufficient comment on this score to say that we are well in some cases because extra good work has high done, and everything counted, including much time and, many odds and ends of material usually of the other work has been accomplished most than ruling contract prices. in one or two instances where the cost was excessive, the value has been provements in the inventory, but mostly the imsented, except that no allowance was made use and wear of mąchinery, utensils, etc. This was charged against general expense. There were and roadways, tearing down of improving lanes fences, plowing up the fence bottoms and of old keep, have been charged to account of general up. improvement in appearance represent a decided

Not all plain sailing.
In addition to the several handicaps enumer a full share we have experienced rather more tha of a noteworthy fact that the two branches always prided himself, to which the manager had the two in which most trouble occurred. For the

J. H. Martin, St. Valentine, Que.

Maker of butter which scored 100 points at the West-
nost part the difficulties were such as could by manageme of logic be charged to neglect or ill attention that discovered was only close personal loss. We were unfortunate enoigh to to prevent tagious herd from unsuspected sources two connother, much a bad form of cow pox, and an propriately mentioned in this article not be apone, though stubborn, we think we first under control, the Tatter will probably he have to tion. Both helped to curtail produc-
Whatever the public may think of the foregoing accomplished, and anticipate satisfied with the work showing from year to year. As supporting this
view it is in order to note that first six months of the second year have been over twice as large as in the corresponding months of withstandtng that we have still been busy with improvement work, planting a a six-acre orchard, putting up five hundred rods of woven-wire fence, tion, building a house, dairy and so with cultivaof work in connection with these affairs Pressure somewhat the completion of the recoris. delayed THE BOOKKEEPING
A particular feature of this farm is the system of accounting which we are endeavoring to work
out. It is not easy, and we have not yet sur ceeded to our full satisfaction, but progress is
being made. and full records of all building casts been kept
records were more troublecome feed records were more troublesome. Nwing to feed
of bins and other facilities, we finally
implo keoping feed records during followed for t912 been worked out and is being much grain, about how much roure ast how proximately how much bedding is utilized for eapkeeping will be more fully described at a later The total outlay $\$ 15.00$ cents per meal for 0 day laborers, and ${ }_{300.53}$, but month for regular men, was $\$ 2$, ed by men and teams in our rented orchards earn $\$ 30.00$ for other teaming done off the farm. The balance, $\$ 1,923.52$, includes wages to cemen contractors, carpenters, ditchers and dày labor
ers. The bulk of it went not towald production, but towards went not thewards crop lars' worth of improvements noted above and the other minor improvements not reckoned in the in ventory. For building material, including brick
for the new house, $\$ 1,717.48$ was laid out assemble and construct that amount of material into, a dozen or more structures during the first year on a place requires a good deal of labor
and thought, as those who have had experience will appreciate. FROM AN ORD

But, someone objects with all your advant ages in the way of infornation all your advantwere unable to make up anything towards interest the first year, what would happen to an or-
dinary farmer with interest on a mortgage coming due? That is a fair question and is worth Without dilating upon the recognized difficul ties of making a general stock and dairy farm pay under the conditions obtaining in such an enterprise as ours, it may be pointed out that
an ordinary proprietor would on ordinary proprietor would probably have left, dred dollars we paid our foreman. the six hunwould have applied towards interest the $\$ 250.00$ we have written off the books as depreciation and if necessary he would have sold a quantity practice this is how it would have worked oun Not all years are equally good; the first one is often doubly difficult, and every business has a testing time, but by one means or another the
thrifty man gets through and ultimately ahead, mangh it is idle to and ultimately gets sidents do, that farm management is easy or
farm proats excessive farm profits excessive. It is one of the most ex
acting businesses known, affording ent of the highest order. In return it foffers comfortable living with a fair return for in invested savings, a reasonable competence in the end and

## THE DAIRY.

## Making 100 Per Cent Butter

 At the 1912 Western Fair a package om Province exhibitor, J. H. Martion by a Quebec tine, was awarded the extraortin, of St. Valenpoints. While other judges might not haverated the sample quite so high it was not ess a most excellent box of hutte was neverthemer's Advocate has been at pains to obtain from Mr. Martin an account of how it was made. The below. Mr. Martin has been an extensive appeard past, successful exhibitor of butter for three years Toronto, London, Ottawa, Quebec and medals at airs. This year, for instance, he secured first ery solids at London (scoring 100 first on creamnoted above), also four firsts and a silver cup Toronto. It is to be remembered, of course, that ery and has was made at a milk-gathering creamproduct of cream a distinct advantage over the ed less frequently cream is received it is collect theless, highily creditable to to Quebec dairying. Following are the Butter-Making Society methods adopted by the have the charge.
I receive at the
milk, that is to the factory nothing but firat-class aerated, and cooled, ; I am very has been strained, ing to have the the principal point in butter-mako succeed in the rest of the work, and attain
periection. The greatest cleanliness should be observed in
the whole process of manufacture, from the milk pails to the churn. The use of tobacco is milk allowed in the factory, and care is taken to al-
low no bad odors of any kind After separating, the cream should be immedi-

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when a good culture is added in proportion of 10
to 20 lbs . of culture to 100 lbs . tipened at that temperature till the following should not exceed 40 churning is done; the cream time. A culture of good flavor should be used, and great care should be taken in the making of the butter-making, should be washed thoroughl
and then passed through steam, or sterilized. Use only very pure water; not too cold, el he but it will be necessary to the time of work the butter to complete the work.
It is preferable to work the butter twi It is preferable to work the butter twice.
After having added the salt to the butter, worl it partly, then leave it for sixty minutes at least to give the salt time to dissolve ; then finish the
working and pack it immediately in boxes clean working and pack it immediately in boxes clean

An Example of Hepd Grading
The accompanying half-tone shows one of a
pair of grade Holstein heifers in the herd of $W$. Edgar Watson, York Co., Ont., who, from his
letter, we should judge to be an enterprisin young dairy farmer, typical of a refreshingly large number of wideawake men, seeking an
avenue to success along the way of better and up-to-date methods. We quote in part from Mr. Watson's letters.
the same bull, and, as their ale being sired by the same bull, and, as their records are ex-
ceptionally good, I consider they show the value of the pure-bred sire. "The one illustrated as a two-year-old produced
11,150 tbs. of four per cent milk in her first lac tation period, w
sold for $\$ 185.00$
The other one freshened at 22 months of age,
and produced 10,350 los. of 3.8 per cent. milk, which at Toronto wholesale prices sold for $\$ 172$, - "The dams of the two heifers wh graphs I have sent, I got from home photostarted. They were good individuals, but had
never been tested as to the amount of milk they never been tested as to the amount of milk they
would give till I got them. They had been bred to a pure-bred Holstein bull whose dam had a record of 17,000 ths. milk in one year, and drop-
ped the two heifers in question. I weighed their milk, and each one exceeded 10,000 lbs. When
the heifers freshened their milk was also weighed, each one exceeding the amount given by their
dams, as mature cows, they being two-year-olds. dams, as mature cows, they being two-year-olds.
I have never used anything but a pure-bred bull. I have never used anything but a pure-bred bull. being two-year-olds, but expect a higher average The new dairy barn at the Ontario Agricul-
tural College, now under construction, is to be one of the best in America. It is 142 , ieet long
and 40 feet wide. and 40 feet wide. It will hold 50 head of milk cows tied in stalls facing the windows, the stalls
being 3 feet 8 inches wide, and graded in length according to size of cows. The brarn is of plank-
acher frame construction. The new cement silo is - eighteen feet in diameter and thirty feet high. At an abundance of lisyt, the Rutherford system of ventilation, and every known device to ensure good
health and economy of labor, this when finished health and economy of labor, this when finished
will be one of the most sanitary and well-planned
dairy will be one of the mos
dairy barns yet built.

For the information of buttermakers and
cheesemakers, and others interested in dairy ing, cheesemakers, and others interested in dairying,
there has been printed a verbatim report of the there has been printed a verbatim report of the
proceedings of the Dominion conference of dairy
officials and experts held at Ottawa early this year. Copies may be procured by applying the Publications Branch
Agriculture, at Ottawa.

## POULTRY.

The Last Lap in the Egg Race at Stoprs.
The North American International Egg-laying Contest at Storr's, Conn., which began on Nov
1st, 1911, is now on the last lap, and the Cana dian pen of Beulah Farm Wyandottes are pushing the leaders, F. G. Yost's White Leghorns,
hard for first place at the finish. In the 49th week the latter's pen laid 17 eggs and the Beu-
lah pen 26 , the total score up to that time being 1,035 for the Leghorns and 1,017 for the
White Wyandottes. Only three out of the five White Wyandottes. Only three out of the five
Leghorns were laying, but all the Wyandottes
were "on the iob" still. of White Leghorns made a strong score earlier in the year, but losing two birds they fell behind.
However, the Canadian contingent from HamilHowever, the Canadian contingent from Hamil-
ton, Ont., patriotically filled the breach, and may
yet snatch the coveted

THE FARMER'S ADVOCATE.

## Care of Tupkeys.

Editor "The Farmer's Advocate ":
This has been a season altogether against turkey, raising, and a season altogether against
good flock of turkeys will rumate owner of a they are put on the wark reap his reward when with plenty turkeys do best in warm, dry weather been almost unknown, but poultry raisors in has eral are hoping for an open mild fall to counteract the effects of a cold, wet summer.
Flies, moths, spiders, etc., go largely to make vails and they have a good pasture to run prethey are no trouble to their owner, and will get


Product of a Good Bull.
Grade Holstein heifer which produced 11,150 pôund
of four-per-cent. milk in her first lactation period.
half their rations or more. In a season like this to their coops so often that they be confined thrifty as we would like to see them, so that they are requiring extra care and careful feeding
in order to bring them to maturity in good form At any time it is not policy to try to rear turkeys on rubbish, and at this season of the year they should be getting some good sound
wheat in their ration. If your turkeys have
so far, and yet appear dull and sleepy without any apparent cause, catch one or two and examine


To the Feast.
them for lice. Lice are the direct cause of more disease among poultry of every kind than any othe them everywhere around the poultry premises Should the turkeys be infected, go through the lo and dust them with insect powder. Repeat the
process about three times in a week or ten after which if you have done the job properly very few of the pests will be left on the turkeys. ject to, and if it is let run it will end up in
blackhead, which is fatal and incurable after a certain point. I always put a little muriatic acid in their drinking water, about twice a week
in the fall. This is a good cure for diarrhoes and a preventive of blackhead. Much of the trouble of illness in fowl of any tuken can be avoided if proper precautions are the fowl every day. Smooth plumage is ance of cation of the good health of the bird. A turkey or other fowl with rough plumage promises
trouble in the near future. When lice and mitee are at work the feathers will be found sticking fected with a contagious disease, it is a mistake to keep it alive. The best thing to do is to king
it, and either burn the body or bury it very deep it, and either burn the body or bury it very deep
at some distance from the fowl run. If let live at some distance from the fowl run. If let live,
and measures are taken to cure it, the chances are that germs of the disease will be conveyed to
other birds, and more will be affected and perother birds, and more will be affected and per-
haps lost. The disease germs have a habit of haps lost. The disease germs have a habit of
finding their way to other fowl, unless every precaution is taken to prevent them.
A great many diseases can be prevented by
providing the essentials to health, such as providing the essentials to health, such as grit,
charcoal and dry grains. Feeding sloppy feed will bring on diarrhoea, indigestion and very often wiver trouble. Mashes should always be fed in a
livy, crumbly state. The difference between a dry, crumbly state. The difference between a
sloppy mash and a crumbly one is the difference sloppy mash and a crumbly one is the difierence
between sickness and health, and that is suffecient to warrant the feeding of nothing but a crumbly mash, or, better still, a dry one. NONA.
Carleton Co., Ont.

## Poultry Fattening.

Editor "' The Farm
Having been engaged in the marketing and fattening of poultry on up-to-date lines for the past twenty-two years, I will endeavor to give the carried on. In the first place, I might say that I have handled some thousands of chickens anTheally, and have met with constant success. are the following: Andalusians, Dorkings, Ply mouth Rocks and Wyandottes, and, in purchas ing for fattening purposes, would certainly give In purchasing considerable attention should be given to the condition of the fowls. It certainly does not pay to attempt to fatten sioklylooking, puny birds, as the aim is to bring into a marketable condition as quickly as possible, with
as little attention and feeding as possible. The as little attention and feeding as possible. The
best time to commence operations is about the secand week in May, as usually you can demand a higher price for birds that are placed in the firds about $1 \frac{4}{4}$, lbs. in weight and not less than $t$ wo or more than four months old.
I have tried both pen- and crate-feeding, also cramming, and would advise the pen-feeding memum. I do not lay any hard and last rule
down to the variety of food given ; neither to the guantity allowed each bird given; neither to he quantity allowed each bird. I usually seed on bran, shorts, feed-flour and ground corn for
the morning meal, and wheat, corn, and a little buckwheat occasionally, for the evening feed, I find two meals a day quite suffcient, with a liberal allowance of green food at mid-day. hours to be the most satisfactory before twelve mencing fattening operations. Some producers advise a twenty-four, or even a thirty-six hours' my experience has proved, that this is apt to throw the birds backwards a little. Condiments or spices should never be employed.
By varying the above mentioned
By varying the above mentioned feeds, I find every pound of gain. I find one attendant (experienced) can properly care for some few hundred during the season, but would advise a beginner to handle not more than 150 during the weeks for the process of fattening, and can always manage to obtain att least 25 per cent. more than the ruling market price for farm From the above facts it will be seen that it certainly would pay the farmer and average producer to study the question of fattening more
closely. In conclusion, I might closely. In conclusion, I might say that one
should always keep in mind the following: The cleaner your poultry is picked the more The cleaner your poultry is
they will realize on the market.
Do not send to private cust
Do not send to private customers, as a rule When you find a good, reliable salesman to send to keep him.
chickens or grade your goods, whether they be ten good egs. A bad or small article spoils ten good ones; one large one will not sell tean
bad ones. Keep large, medium and small sep The best way for the ordinary farmer to mar-
The
tet his poltry to advantagg is to become ac- THR FARM BULLETIT Brome Co., Que

## Feeding Laying Hens.

and "The hen that lays is the hen that pays," and the hen that lays during the winter months is the one which makes the most profit for her
Lwner. Laying hens require four classes of food
material, including grain, vegetable food material, including grain, vegetable food, some
lind of meat food and grit. They also requir a constant supply of drink, water or milk, Bequire the place, does not mean that they do not re-
quire clean feed and clean drink. Dirty sour leeding troughs and slimy vessels to hold the the
drinking water are the cause of meny poultry rinking water are the cause of many poultry torced to feed from such.
The various grains win
The various grains which hens will eat and
give good returns from makes it impossible to ever, most economic result all conditions. Howed when a mixture of grainst is generally obtain with any fed singly grains is used as compared food, but the high price often makes it necessary sake. Corn is a good with it for economy's not be fed exclusively. Winter feed, but should nutriments for egg production, but because of a rolled. Barley is fed extensively be crushed ot ble in a mixture, and buckwheat is one of the best after the hens have become accustomed to it.
Many good poultrymen feed all the oats rolled, Many good poultrymen feed all the oats rolled,
keoping them in feed hoppers in the poultry houses
constantly. This is perhaps the most coopstantly. This is perhaps the poultry houses satisfac-
tory method practiced for feeding this tory method practiced for foeding this grain. mixture of the others, all of them, any three o them, or of two of them, is quite satisfactory ing to its heating a little corn is advisable, ow
tends tends to fatten the fowls, however, and a reasonproper balance in are is required to maintain the whole grain feed corn gives good results. Wheat corn and buckwheat, one-third each, is a good Most
thods possible. Simplicity is the simplest moand while many are not practicing economic feed ing, they could do so and still be fronomic feed-
great amount of complication any great amount of complication. A hen to do any
best should be fed three times daily during ther winter. With the rolled oats constantly before them a whole grain feed of the foregoing mixture night and morning disposes of this part of the in a trough and the hens allowed to eatd be given will just before dark. Any feed that may they eft in the trough should then be emptied in the the litter forked morning feed scattered in this and courage the hens to take exercise, which is to enutely necessary if eggs are to be produced regutarly. The noon feed should consist of vegetables, mangels, turnips, cabbage, clover hay, or change the vegetable diet from time practice to Some bang the cabbage or mangels up so the hen This is not necessary wher thus getting exercise. feed is well-covered with litter The only other class of food to be discussed is the animar foods. These are the most expen to promote egg production believe that good production. Most poultrymen winter without green-cut bone, beef scrap or in of some kind, and while they are in a sense correct, there is a limit to profitable egg produc
tion as the direct result of feeding the and most farms have a supply of a food which. equally as effective and far more economical problem of supplying drink for the fowl solves the problem of supplying drink for the fowl to a cer
tain extent.
Sour milk is just as in fact a little better than sweet milk, as and perimental results have shown, and is equal in
value to any produced on the place it is profitable to purchase dishes clean and well supplied keep their drinking ters not in what form this is is is grit. It matserves the purpose. Oyster-shells ar long as it hens well, keep them well exercised, Flean and segardless of the breed and gather eggs in winter when eggs are "gold nuggets."
A new poultry house, 240 feet long, to be dinection with the poultry department of the Some poultry department of the
0. A. C. Some valuable work in the intricacies
if breeding show and bred-to-lay stock is to be of breeding show and bred-tolay stock is to be

An Indian-Summer Job.
Packing apples is an ideal job for an Indiansummer day. The year seems to be as ripe as the fruit and a poet might pick off perfect days to store in song for future meditation just as we night there was a sharp frost and when 'cthe sun new risen, shone through the misty horizontal air shorn of his beams," the fields were white with rime. While the air was being warmed and the south wind began to stir was a good time 10 carry apple barrels from the shed to the orchard. Having been shown how to carry two at a time by placing them against my hips and catching the outer rim, I felt as if I were trying to fly. I would gladly have employed a professional anyone to help, a demonstrator of the Fruit Branch showed me how the job should be done and I tackled it mysilf. He assured me that after I get through with the Peewaukees it will be
fun, as the Spies and Baldwins are all over No 1 size, and all I will have to watch for will be the culls. In the Peewaukees the side worms Were particularly active and did a lot of damage.
Wherever apples touched one another or touched a leaf the worms burrowed around in the skin and made culls of what would otherwise have been prime fruit. The cut made by this worm as a well, but 'tis a church door, nor, so deep heard it said that experienced packers can thave defective apple by the touch and go on picking up three apples in each. hand and looking at the perienced packer, and though I wore yy an exand did not handle more than a couple of apples at a time, defective ones would still get past me.
$I$ would find them in the sorting later on in the barrel when sorting basket, and emptying each basket. When I was racking it after ed me a lot of work and worry, and though I did culls may have hounted by the fear that some sympathize with at least some of the farmers who get into trouble by packing improperly branded fruit. Unless one is skilled at the work, man from the Fruit Branch mistakes, and the were so sure to get in that told me that culls Orget about the ten per cent. allowed by well wou may do your level best and the ten per cent packing apples is a thoroughly artistic prove that does not us that no work of art is jreat A thematically pathy. But the artist need beyond human symto deliberately put in the error. Being troublo Only machine to do that in spite of all his skill perfect, and taste. But let us get back to to a cultivated

There is always something to learn about about the work than I thought there more know before I began, and as each expert I meet
tells me something new. I conclusion that as yet I haveng bort forced to the started. The last thing I haven"t got rightly
if a man in learned is that if a man is not careful when picking this year' crop he may pick next year's crop along with it. When apples are pulled too green, as altogether
too many have been this season, the twigs on
which they which they grow are this season, the twigs on
stems. As break off with the stems. As these twigs are the ones that have
the fruit buds for next year's crop ing can do a great deal of damage. When pickapple is properly matured, the stem separates from the twig naturally without stem separates to the apple or pulling off the twig. As the
ruit on one Peewaukee tree we I had a chance to see just what this destruction, amounts to, and it was surprising. This leads
me to wonder if there me to wonder if there will be much fruit next
year on orchards where the fruit year on orchards where the fruit was picked at
least a month ago, when the apples were
edly edly a month ago, when the apples were decid-
ears bad enough to have to sell this years crop for a sad enough to have to sell this
next vear's at the without destroving

## * * *

Although the apples are being packed, they are not definitely sold, but the probability is they
they will be shipped to Edmonton whe ple's mouths seem to be watering for where peoario apples. As T know wath whor choice On-
ing. I feel sure of fair treatment suggested are so amazing that I am the prices suggested are so amazing that I am compelled to
ake a chance. Arrangements are beine
get a fruit car that will be heated if necessary
and every precaution will be taken to delivery of the apples in good condition. looks as if we would have a carload of fruit, about one-half Spies and Baldwins, an according to the information I have received, Be West. If the venture turns out well, others may be encouraged to act independently, and if I do suggested, $I$ shall be like the man that are being ed by a mule, I shall not be as pretty as I was but I'll know more.

And now let me say good-bye to the beaut have been through rushes of wouple of like thisk. before and know just what they mean. From daylight steady work that will dull monotonous round of derful things that are going on in nature. The peering through my spectacles, but I shall be scales and bruises in apples, instead wornmholes, in the glory of the maples. I shall, no doubt, back, grand the warm sun beating on my I do not expect to be able to to interest in my surroundings until the last further y packed and loaded on the car. If I deliberate I stopped to enjoy the Indian-summer weather the packing, but that would never would neglect ples represent a summer's work, and they must

Since I cannot revel in this Indian-summer weather myself and try to describe it, I shall do
something better. William Wilfrid Camphell has written a little poem on the subject, which every
Canadian should know by heart, and I shall
quote it:

Along the line of smoky hills
The crimson forest The crimson forest stands,

Now by the brook the maple leans, nd all the sumachs on the hills
Have turned their green to red.
Now, by the great marshes wrapt in mist Throughout the long still autumn day
Wild birds are flying south.

## Beans, Fruit and Tobaceo in Kent.

 south and west of the little to tow of miles east, in the southern part of Kent Cown of Bleneim, if not in the sections of farming country in Canada, fruits and vegetables. Here can be grown all the sunny South. Here is the largest and best the district in Canada. The farmers here grow and market hundreds of acres of white beans. Theymarket them largely through their own ware
house market them largely through their own , ware-
house, as they operate the Kent Farmers, duce Co., Ltd., with which the rarmers' Proarmer's Advocate are already acquainted of fruit, apples being shipped fromge quantities train load. Twenty yhipped from here by the Chey were ruined if their apple farmers thought
$\$ 1,200$ or $\$ 1,500$. Here all below first places to take up the also was one of the ose scale. Of the many fight against the San hat are productive. Holy a very few left to-day has are heing made. Wiever, many new plant-
has been upward of the last year there ples. This is also of them peaches and early in trict, about 175 carloads being bhipucing dis-
Blentieim late turns for several vears now, To has paid big regood and prices fair-10c. per lb, for have been
$1212 \frac{1}{2}$ c. for 1911 . The crop this and crop is but the quality is far better. An averago and some even more. The many getting 2,000,
to lo this country for supplies nowners are looking - fruit here this past summer quite

The contract has been let for a new Agronomy
Building at the Ontario Agricultural
The Building at the Ontario Agricultural College.
The new building will be placed just south of the
nrespnt Horticultural Build ween the two for another huldeaving room be 1ons warrant its erection. Work will begin this
all on the foundation : Day the foundation. The hork will begin this Nay, just north of the main house of Prof. G.

Canada's Cpops. A bulletin issued at Ottawa October 16 th by
the Census and Statistics Office covers the crop conditions in Canad for the month ended Sep-
tember 30 . It states ${ }^{\text {then }}$ that during this month disastrously wet weather continued to prevail over most parts of Canada, especially over the
Provinces of Quebec, Ontario and Manito Provinces
September 30 large areas of and Manitoba. At East and West, were still either uncut or in the
Exposed to the wet in stook. Nuch tore exposed to the wet in stook. Much damage were
been caused by sprouting and in the Northwest Provinces second growth has in numerous instances caused uneven ripening and consequent
lowering of grade. Frosts during iop those Provinces did some daminge, but as a rule ously affected. In parts of Southern were seriground was so wet that many farmers abandoned the sowing of fall wheat for next year. The estima ees of yield published a month ago
could only be regarded as of preliminary value, because in consequence of bad weather and late-

season harvesting operations had made so little | progress. |
| :---: |
| The new |

respondents at the end of yield obtained from corerally the previous estimates for most of the crops, but inasmuch as very little threshing had unharvested, it is feared, that the grain were still after completion of the threshing, may turn tes, lower than the figures now given. For spring wheat the estimated production is
$188,816,600$ bushels, as compared with $189,904,-$ 500 bushels last year. For fall wheat the esti-
mate is $16,868,700$ bushels, compared with 26 , ${ }_{0}^{\text {mate }} 0$ wheat production being therefore $205,685,300$
bushels, as compared with $215,918,500$ bushels in
1011 1911, a decrease of 5 p. .c. The yield per acre
is 21.08 bushels for all wheal bushels last year. Oats show a total production of 381,502,000 bushels, compared with $348,585,-$ 600 bushels last year, the yield per acre being
41.29 bushels, compared with 37.75 . $\begin{aligned} & \text { Barley is }\end{aligned}$ is estimated to yield a total of $43,895,100$ bushels compared with $40,631,000$ bushels 1 last yearr, the
yield per acre being 31.00 bushels, against 28.94. yield per acre being 31.00 bushels, egainst 28.94 .
The total production of rye is $8,086,000$ bushels
Tagainst 2,688800 . against $2,668,800$ bushels in 1911 , the yields per
acre being respectively 20.75 and 17.41 bushels of oats, barley and rye increases in total production, as compared with last year, represent
percentages percencases peas is $4,202,200$ the estimated pro-
duction of phels $1,106,800$
bushels,
be bushels, of flaxseed $21,148,400$ bushels, of in mixed
grains 17,940900 bushels grains $17,940,900$ bushels, and of corn for husk-
ing $14,218,400$ bushels. The average quality of these crops at harvest
time, measured upon a per cent. basis of 100 as
represent reperesenting grain well per cent. basis of 100 as
saved and wed will filled, well saved and unaffected to any appreciable extent
by frost, rust, smut, etc., is as follows : Spring
bhes what 83.70 , oats 86.01, , barley follows : Spring, rye
weas 80.82,
peas 68.41 , beans, 68.81 , buokwheat 80.87 mix
 barley and flaxseed are above, while peas,
and and corn for husking are below the average qual
 the quality of both 1911 ( 75 p p. .) ) and 1910
( 73 p. . . $)$ Root crops continue to show excellent figures
as representing average condition during growth. The highest are potatoes, 90.12 p. c., and the mamed corn for fodder, 80.63 p. c. . The last
during the month. archibald blue,
Chief
Officer.

Professor of Horticulture, Macdonald College.
appointments at macdonald college. T. G. Bunting, B.S.A., Assistant to the Domin-
On Horticulturist, at the Central Experimental Fon Horticulturist, at the Central Experimental
Farm, Ottawa is resigning his present position
to undertake the duties af Professor of Horticulture at Macdonald College, Que. Mr. Bunting
is an honor graduate in horticulture of the Ontario Agricultural College. He has had the ad-
He vantage of practical training and experience on
his father's fruit farm in the Niagara district in the commercial raising of fruits and vegetables F. M. Clement, B. S. A., the new Lecturer in
Horticulture, was born and brought up on a fruit rricniture, was born and brought up on a fruit
Irm in Niagara Township, I.incoln County, Ont. S the author of Bulletin No. 201, of the On-
A. Berrey, B. S. A., who has been appoint-
the nevly-created position of Assistant in


Ontario Agricultural College, having specializod
in Animal Husbandry, taking special interest in
Sheep Sales and Faips in Nova Scotia.

## Edtor "The Farmer's Adrocate", The sale sale of pure-bred rams and grade ewes at

 Antigonish on Oct. 4, conducted by the Dominion Department of Agriculture and the DominionSheep Breeders' Association, resulted in the disposal of sixty or more animals. They have dee scattered fairly well through the county, the numerous sections being well represented. This
will have a decided beneficial effect ont our she will have a decided beneficial effect on' our, sheep
industry, and there is no excuse why any' .armer should be without good sheep, as the prices wer low and within the reach of everyone. A fow
Cotswolds were ind Cotswolds were included in the sale, but bids were
not numerous, and as a conseouence they wero not numerous, and as a conseguence they were not
sold. It is stated that the climate would not be well suited to them ; anyhow for some reason they are not liked in this part of the Province. They
were forwarded to other sales. All sheep sold were in excellent condition.
The pickling season is just passing, and the housewife is finding difficulty in procuring tomabut a great short whole Province was toured, plants went to vines and did not bear, the latter
part of the season being so wet; the plants blossomed all right, but did not form fruit. Farmers at present are busy digging their po-
tatoes, and report, where the potatos were
planted in upland and planted in upland and well-drained soil, dry as a
consequence, a banner crop of large potatoes of good quality, while on the other hand, the pota-
toes in fairly wet ground are reported half rotten. One young farmer planted two lots of pofour, but was surprised to find when the lots were harvested that the four-bushel lot yielded more selling at present for about forty-five cents. The Nova Scotia Provincial Exhibition was a grand success this year, so the authorities say, Nova Scotia, the men who could not attend the exhibition on account of delayed haying and haring exhibesitating their remaining at home durthe Halifax dailies did not use them right that the simple reason that the prize-winners were not published as should be. We must admit that a big corner was horse racing. What does a good armer care about horse racing ? Nothing. One er, stated that if you want to see how your exhibits do, you would have to accompany them to Halifax, and he was very correct. Leaving the Nova Scotia Provincial Exhibition was quite sucNossful.
Perh
Perhaps there was never a year before when so
many exhibitions (county) Nova Scotia. They were all very succesflul tot as a result of fine weather. It is the county exhibitions that are bringing the Nova Scotia farms friendly competition A A frw years will tell, as the young men of every county taking an active part at all the small exhibitions.
26 th and 27 thish prize-winners were greatly pleased when the The tigonish Casket published a full account and also a complete list of the prize winners.
Herbert
Smith, of Clydesdale, Antigonish Co., won the Smith, of Clydescale, Antigonish Co., won the the
"T. Eaton", yet of dishes for the best crock of
butter.

## Antigonish Co., N. S.

The Duthie Shorthopn Sale. The annual sale of Shorthorn bull and heifer
calves from the herd of Mr. Duthie, Collynie Aberdeenshire, which took place on Seotembe 8th attracted a very large attendance of breeders
and some splendid prices were realite ball calves cantal prices were realized. The 24 $\$ 81,890$, and the 12 heififer calves an average of \$430. The highest price of the day was 2,000 months-old bull calt Collynie Cuphearer, sixe the Missie bull, Merry Stamp dam Proud sire, by Achilles, purchased by E. N. Casares Lundon, 1,000 guineas for the dark-roan six-months-old Collynie Golden King, by Adbolton Regal King,
dam the Goldie Cow, Golden Thorn, by Scotch dam the Goldie Cow, Golden Thorn, by Scotch
Thistle, purchased by The Edgcote Shorthorn Company, Banbury: Collynie King Royal, by the
 for a bull calf at any previous Collynie sale was averagu gueas in 1917 , and the highest previous
$\$ 2$ was made in 1907 , when 17 averaged

The Cox-Fupness Holstyein Sale. The auction sale on october 17 tht, at Ennis
claire Farms, Oakville, Ont. of fure bred and caire Farms, Oakvilie, ont. of pure bred and
grade Holsten, the propert of H. Cox Cox and
r. S. Furness, was not largely attended Cowis. P. S. Furness, was not largely atended owing to
very unfavorable weather, but prices obtained very unfavorable weather, but, prices obtained were
on the whole satisfactory, especially for the
 sale, established record prices, the arverá tor tuto
grades being $\$ 91$ for cows, and $\$ 56$ 'tor" hellets and calves, and the highest, $\$ 150$ for each of two sollowing is the list of pure-bred
saling for $\$ 100$ and upwards.

## cows

eo Kol Mantel 3rd, W. J. Kelleher, PideGoodie of
Palermo Clinton Girmo (irl, Dr. Watson, Burlington..... 125.00 Clinton Girl, Dr. Watson, Burlington.....
Summer
Hill Maid, D . Watson, Burling-
Woodland De Kol's Beauty, Jas. Lidate;
Dundas 100.00
calves.
Johanna Woodland Mercedes, 7 months
old, Munro \& Lewless, Thorold........ 150.00 De Kol Mantel 4th, 3 months old, W. J. $\begin{aligned} & \text { Kelleher, Pickering } \\ & \text { K................ } 150.00\end{aligned}$ yEARLING BULL
Beauty's Victor, Wm. Barker, Oakville.... 75.00

## $\$ 17,000$ in Ppizes for the Winter

 Faip.In a little over six weeks, or on Monday, De-
cember 9 th, the Ontario Provincial Cember 9 th, the Ontario Provincial Winter Fair
will be in full swing at Guelph. Exhhibitors who have been succeassful at the shows should at once get a copy of the prize list from A. P. Wester-
velt, Secretary, Toronto, to see the velt, Secretary, Toronto, to see the generous
prizes for which they may compete in 1912. In prizes for which they may compete in 1 ing 12 In
all, over $\$ 17,000.00$ is offered for the leading kinds of horsses, beef and dairy cattle, sheep, swine, poultry and soods.
Special attention
Special attention is devoted to the horse dopartment of this year's fair. This department
has grown tremendously since its inception. The prizes offered and the value of the fair as an advertising medium has resulted in the bringing to-
gether of some of the finest classes of breedin getare or some or the innesh classes onade. With the new building, which was used for the frat
time last ver, there is stabling accommodation for last yorses. there is stabling accommodation horse which he wishes to advertise for service or for Clyd exhibit at the fair. The classes are Standard-breds, Thires, Percherons, Hackneys, Heavy Draught Horses. The cash prizes for

According to a cablegram received at Ottawe last Saturday from Rome, the 1912 production of wheat in the twenty-two countries which had so ar reported to the International Institute or Asme countries in 1911. Barley is 105.2 per cent., oats 120.7 and corn 116.4 per cent. The Russia, United States, India, France and Canada with wheat estimates in the order named.

From many parts of the country reports con through the prevailing wet weather. In the digging it is not uncommon to find more than half of the tubers rotten in clay and clay-loam soils; and some that appear sound at first go
pad afterwards. Luckily for those on sandy soils, their crops are very much better, but it fy very generally forecasted that prices for another season will rule high.

George Hilton, V.S., acting for the Veterinary
Director General, informs The Farmer's Advocate that the Ministerial order of July 16th last prohibiting the importation or introduction into Canada of any hay, straw, fodder, feed stuffs or Europe, has been extended for a further period of three months, from Oct. 16th last.

A great deal of the apple crop in some OnMore urgent work hoing accumulated because of wet eather, and there are no hands to spare for ap-ple-picking.

The date of the Canadian National Exhibition, Toronto, for 1913, has been fixed to begin
Aug. 23 and continue to Sept. 8 , inclusive, Quite
a number have been recommended by the and imprectorate.


 Tue meink oo toint by to above ogever

 While the good to choice remained firm,
at ou last quotations. Sheep and
calves at our last quotations. Sheep and
calves remained teeady to firm, while
lambs and hogs advanced in price. Hemters and springers were firm, at our
last quotations: Last quotations:
Chicago, were the only buyers of expor cattle, which were bought at lower prices than was paid for selected lots of butchers' cattle. On Tuesday, this firm
bought 100 catile for the Liverpool marKet, averaging 1,150 to 1,250 lbs., $\$ 5.85$ to $\$ 6$ per cwt ., and on Wednesday
they bought 100 steers for Lendon
1200 they bought 100 steers for London,
1,260 Ibs. each, at $\$ 5.90$ to $\$ 6.25$ per Butchers'.-The highest price paid for $\$ 6.85$, while the bulk of sale heifers wa butchers ${ }^{\text {s }}$ were from $\$ 6$ to $\$ 6.20$; load
of good, $\$ 5.60$ to $\$ 6$. of good, $\$ 5.60$ to $\$ 6$ medium, $\$ 5.25$ to
$\$ 5.50 ;$ common, $\$ 4.50$ to $\$ 5 ;$ inferior
$\$ 3$ to $\$ 4.25$, $\$$, $\$ 3$ to $\$ 4.25$; bulls, $\$ 2.75$ to $\$ 5.25$; cows
$\$ 3$ to $\$ 5.25$; canners', $\$ 1.75$ to $\$ 2.50$, Stockers and Feeders. ${ }^{2}$ Receipts wer large, and for the common, light cattle $1,100 \mathrm{lbs}$., $\$ 5.40$ to $\$ 5.60$; steers, 90
 Milkers and Springers,-Receipts. liberal, especially of the medium to go cows. $\begin{aligned} & \text { Prices were firm and unchanged } \\ & \text { at } \$ 50 \text { to } \$ 90 \text {, and one or two large }\end{aligned}$. breedy cows, sold at one or two large
Veal to $\$ 100$ each large, and prices were as firm as at any
time this year, selling all the way from $\$ 3.50$ to $\$ 9$ per cwt.
Sheep and Lambs.-Receipta were lar Sheep, light ewes sold at at $\$ 4$ to large, $\$ 4.50$,
heavy ewes and rams, at $\$ 3$ to $\$ 3.50$; lambs sold from $\$ 6$ to $\$ 6.60$; cull lambs Hogs.-Receipts were not equal to the
demand demand, and the packers failed to reduce
prices, although they tried hard to prices, although they tried hard to do
soc The bulk of hogs fed and watered,
sold at $\$ 8.50$ to $\$ 8.60$, ind $\$ 8.10$, $\$ 8.25 \mathrm{f}$. o. b. cars at country points. Horses.-There was little doing at any
of the horse markets. Good- पuality drafters were in demand, and sold at
high prices, but second-hand, serviceablysound horses, of which there are more
than the demand calls for, were mue lower in value. Prices were reported as Rollows: Dratters, $\$ 275$ to $\$ 825$; gen-eral-purpose, $\$ 225$ to $\$ 260$; expressers,
$\$ 175$ to $\$ 225$; arivers $\$ 100$ to $\$ 175$ to $\$ 225$; arivers, $\$ 100$ to $\$ 15$
serviceably sound, $\$ 40$ to $\$ 75$ each.
breadsturfs.

 solids, 27c. to 28c., separator dairy
28c. to 29c.; store lots, 24 c . to 26 c
 $\begin{array}{llll}\text { Honey. - } 2 . \operatorname{xxtracted,} & 12 \mathrm{c} \text {.; } & \text { combs } & \text { per } \\ \text { dozen, } \$ 2.75 \text { to } & \$ 3 . & & \\ \text { Eggs, }- \text { Strictly } & \text { new - laid, } & 35 \mathrm{c} . & \text { per } \\ \text { dozen, }\end{array}$ dozen,
do 30 ,
Potat
car lotoes.-Prices
cirmer for on trario,
per track, Toronto, 70 , to 75 c Poultry.-Receipts, liberal; prices for
live ber live birds were as follows:
18c. to 22c.
Turkeys,
Teese
 as follows : Turkeys, 25 c . to wrices wer.
geese, 12 c :
chickens, 14c. to 16 c .; hens, 11 c . to 12 c .
HIDES AND SKINS.

1 inspected steers and cows, 1 No. 3 inspected steers, cows and bulls,
12c.; country hideg, curce 10 c ,

 wool.
Unwashed, coarse, 13c.; unwashed, fine,
14tc.; washed, coarse, 19c.; washed, fine 14 c c.; washed, coarse, 19c.; washed,
22c.; rejects, 18 c.
TORONTO SEED MARKET. S12; alsike No a per bushel, $\$ 11.50$ 11; alsike No. 3, per bushel, $\$ 9.50$ to imothy No. 1, per bushel, $\$ 2$ to $\$ 2.50$

## FRUITS and vegetables.

 Trade at the wholesale fruit markethas materially declined, the season for
sumer

 50 c .; cucumbers, 75 c . to $\$ 1$ per basket;
gherkins, 70 c . to $\$ 1$; tomatoes, 30 c . to 40c, cabbace, per crate, $\$ 1 ;$ celery,
dozen, 25 c . to 35 c .; quinces, 40 c 50 c ., apples, per barrel, $\$ 1.50$ to $\$ 2.50$
plums, 60 c , to 75 c .

## Catt Chicago

Cattle, - Beeves, $\$ 5.50$ to $\$ 10.95$; Texa
steers, $\$ 4.50$ to $\$ 8.50$ Western steer.
$\mathbf{\$ 3 . 7 5}$ to $\$ 9 ;$ stockers and feeders, $\$ 4.2$ to $\$ 7.50$, cows and heifers, $\$ 2.90$ to
$\$ 7.80$ calves, $\$ 7$ to $\$ 9.85$. Hogs,-Light, $\$ 8.30$ to $\$ 9.10$; mixed
$\$ 8.45$ to $\$ 9.20 ;$ heavy, $\$ 8.45$ to $\$ 9.20$ $\$ 7.75$.
Sheep and Lambs.-Sheep, native, $\$ 3.60$
to $\$ 5$ Western, $\$ 2.85$ to $\$ 4.85$. year $\begin{array}{llll}\text { lings, } & \$ 4.75 & \text { to } \\ \$ 6.85 & \text { to } \$ 4.85 \text {; year } \\ \$ 5.25 & \text { to } \\ \$ 7.50 \text {; Western, } \\ \$ 5.50 & \text { native } \\ \$ 7.50\end{array}$

British Cattle Market.
John Rogers \& Co.., of Liverpool,
ble quotations for Canadian steers,


Montreal.
Live Stock.-On the Montreal market the offerings were light and the tone wa firm. Choice steers sold at $6 \frac{1}{c} \mathrm{c}$. to 6 bic. per lb., while fine were around 5țtc. to
 . Meaium grades brought 4 c c . Sheep and lambs were rather firme sales of sheep taking place at 3 gac. 4c. per lb., while lambs sold at 6c. 6 fc . per lb . Calves ranged all the way
from $\$ 5$ to $\$ 12$ each whil from $\$ 5$ to $\$ 12$ each, while hogs sold
8 g c. to 9 c. per lb., weighed off cars. 8yc. to 9 c. per 1 b ., weighed of cars.
Horses. Dealers report a moderate de There is now great activity in connec tion with moving out the fall shipment and this occasions the purchase horses, though auto trucks are coming into general use rapidly. Lumber camps erate way, and some sales of heavy horses have taken place. Prices were as follows : Heavy draft, weighing from ight dre $\$ 300$ each; light horses, 1,000 to 1,10 ach, $\$ 125$ to $\$ 200 ;$ broken - down, ol
animals, $\$ 75$ to $\$ 125$ each, and choic
addle and carriage saddle and carriage animals, $\$ 350$ th
$\$ 500$ each. Dressed Hogs.-There was practicall no change in the market for dressed
hogs. Fresh - killed, abattoir-dressed sold at 12 c c . to $12 \frac{1}{3} \mathrm{c}$. per lb. A few sold at about 1c. peff lb. below, an Potatoes.-Some of the stock was not Wivth handling, and could hardly b
given away. Cobblers, in car lots, sold at 65 c . to 70 c . per 90 lbs ., track, whil
jobbing lots were 25 c Eggs.-Prices here 25 c . to 30 c . higher. were quoted at 30c. to 31 c . per dozer
while Noer stock 23 c .
Syrup and Honey.-The market showe little change, being 8c. to 8 tc. per
for syrup in tins, and $6 \$ \mathrm{c}$ wood. Sugar, 8 fc . to 9 tic. per
Honey, white-clover Honey, whit-clover comb, 16 c c . to 17 c ,
per lb .; extracted, 12 c . to 12 cc . per lb per 1b.; extracted, 12 c . to 12 fc . per lb.
dark comb, 14 c . to 14 c c. per lb., and extracted, 9c. to 10.. per 1b.
Butter.- Pr .ces advanced in and ships again, and over 30c. was paid there. Supplies were evidently light,
and there is fear of a shortage. tions were $29 \frac{1}{\mathrm{t}}$. to 30 tc . per lb . for finest, and a cent less for fair, dairies being Cheese. -The tone of the market in the
country was, in country was, in some instances, lower,
but the market here was about steady,
being 13 tc . to being 13 z c. to 13 ag. per 1 b . for finest
Westerns, Townships being low these prices, and Quebecs tc. less
than Townships. Grain.-The price of oats continued
fairly steady, at $54 \ddagger \mathrm{c}$. to 55 c per or No. 2 Canadian Western; pe. less for
 and 5112. to 52 c . for sample oo. ${ }^{2}$ feed,
Flour.-The market still showed Change, although there had been son talk of an easier tone. Manitoba first
patents, $\$ 6.10$ per barrel;
and strong baker. nd strong bakers', $\$ 5.40$. $\begin{gathered}\text { Ontario p } \\ \text { tents, } \$ 5.25 \text { to } \\ \text { O5.35 }\end{gathered}$ wood, an straight rollers, $\$ 4.95$ to $\$ 5$ wood, an
juto., 30 oc., per barrel less.
Milleed. -The Milleeed-The market for millfeed was
steady, at $\$ 23$ per ton in bags, for
ran; $\$ 27$ for bran; $\$ 27$ for shorts; $\$ \$ 8$ in bags, $\$ 30$ for
middlings; $\$ 36$ to $\$ 38$ for pure gra mouille, and $\$ 34$ to $\$ 35$ for mixed. grain
Hay.-Prices per ton for No. 1 preassed hay, carloads
track, Montreal; $\$ 13.50$ to $\$ 14$ for No
2 hay, extra; $\$ 11$ to $\$ 12$. $\$ 1$. 2 hay, extra; $\$ 11$ to $\$ 12$ for No. 2 or
dinary; $\$ 10$ to $\$ 10.50$ for No. 3 , and
$\$ 9$ to $\$ 9.50$ for clover mixed Hides. - The market for hides was fairly
active, and prices held




## Buffelo.



## Cheese Mapkets.

Woodstock, Ont., 13tc. to 18 tc .; Brock-
ville, Ont., 138.; Kingston, Ont., 127c.
 wall, Ont., 12 fc c. to 12 fc. ; Napanee,
Ont., 12 zc . to 12 l 15-16c.; Picton, Ont.,
13c., to 13 1-16c.; Iroquois, Ont., 127c. London, Ont., bidding 13c, to 134c.,
no sales; Belleville, Ont., $1218-18 \mathrm{c}$. to
122c. Co st. Hyacinthe Que 12 ., butter, 81 kc .; 28åc.; Cowansville, Que., 12 11-16c.

Canadian Sheep fop Exhibition in Chicago.
Up to December 7, 1912, Canadian
sheep may be imported into the United
States for exhibition ternational Live-stock Expositition held at Chicago, III., from November 30 ject to the thirty-days, without being subvided they pass a satisfactory inspection ant the port of entry, and are accompanied by an allidavit of the owner or mporter, and a certificate issued by a
Canadian official veterinarian, as required by Regulation 42 of B. A. I. Order 180, "Regulations for the inspection and
quarantine of horses, cattle, sheep, swine, and other animals imported into the nited States." And provided further main in the United are not sold to returned immediately to Canada at the The Department must the owner or importer, through the office Chicago, of any Canadian in charge at are to remain in the United Sheep which breeding purposes, and such sheep will position grounds under the at the Exof an inspector of this Department who to destination certificate before shipment days of quarantine will be The thirty the date of entry into the United
States. All Canadian sheep intended for this exposition must sheep intended rectly to the Exposition grounds, and must not be
stock yards.

## GOSSIP

vertised by the Earl Construction Co comfort and convenience to be a great mome. Free literature is mailed on ap-
plication. See advertisement.

Sale dates clatmed. C. Flatt \& Son, Hailton; Clydes-
Comer
dales, dales, at Union Stock-yards, Toronto consignment;
manager. ovember 6th, at Limehouse, Ont., Dr.
Jas. Lindsay and Alfred Stone, Guelph:

## dates of coming fairs.

 Fruit, Flower, and Honey Show, To-ronto, Nov. 12-16. National Dairy Show, Chicago, Oct. Smithfield Club Fat-stock Show, Islingon, London, England, Dec. 9-13.
Ontario Provincial Winter Fair, Guelph, Chicago International Exhibition, Nov
Chicago International Exhibition, Nov.
30 to Dec. 7 .


## Thanksgiving.

 Thers is no hearth so bleak and bare No table e'er so sparsely spread ther But that a grace should there be faid; No life but knows some moment bles Of sweer contentement and of resNo heart so cold but Heaven ab Hath touched it with the warmth of lov So count your blessings, one by one, At early morn and set of sun,
And, like an incense, to the ski Your prayers of thankfulness shall rise Look for the love that Heaven sends, Thus you will learn the only way To keep a true Thanksgiving way,

In the Amazon Jungle. In our last issue, when touching upo the rubbr countries," reference wa
made to Mr. Algot Lange's book, "In the Amazon Jungle'" (G. P. Putnam's
Sons, Pub.), which is olume dealing with that terrible counDisembarkie mighty Amazon River. ary, 1910 , from R. M. © ast day of Janupoint 2,200 miles M. S. "Manco," at Lange found himself confronted by M omen in the very name of the place in months. Was to spend the next few
Remate de Males, or "Culmination of Evils,"
the was called, and a quite ready to believe the name justified. and ere the second chapter of his life in South America had passed, even Remat
de Males would have seemed a blessed place of respite, a taste of Paradise. is a sort of supply-station for the rub ber-workers, and one of the points to Which they fock when the rainy winter population at such times rising to the aumber of some 500 , chiefly Brazilians During the
Males Males presents the picture of a village
on stilts, as all the buildings are raised on poles in preparation for the inevitable der, and "at the bottom of every ladder appears a rudimentary pavement, prob-
ably five feet in area, and consisting of iifty or sixty whiskey and gin bottles placed with their necks downwards, as
a foundation for the ladders." The a foundation for the ladders." The
roofs are of palm-leaves, the walls of
rusty, corrugated sheet-iron, and the rusty, corrugated sheet - iron, and the
floors of rounded poles, with cracks be-
tween thront beneath may be seen. In summer, this beneath may be seen. In summer, this
is a panorama of pigs, goats, and other
domestic animals; in winter when the floods are animals; in winter, when the of river-creatures alligators, water-snakes, and malignant,
repulsive fish, of which persons outsid South America know nothing."
this seasen this season, by the way, the animals are
moved into the houses with the people,
and the butcherin room," the refuse being thrown out at the back door for the fish to eat.
All this seems unattractive enough, but add to it an air full of miasma, and the
constunt menace of yellow fever; add to it the incessant worry from vicious,
tropical insects, and the intolerableness seems complete. The roosf swarm with
wretch od pests, and if there is an attic. as the hotel in which Mr. Lange
stayell, it is but a most undesirable additicu). He "would not have ventured
up thers without a winchester in hand " up ters without a winchester in hand,
he
fested with the dangerous, poisonous
vermin of the vermin of the Amazon.
All sleep throughout the jungle region is taken in hammocks, a rather preacion ous position should one chance preaari-
ble out or the ropes to break in season ble out or the ropes to brack in season
of exceptionally high flood, when Water rises above, high flood, when the
there is no danger Even when there is no danger of this, sleeping in hammock in the tropics is not without
its terrors. It is necesary to its terrors. It is necessary to put wads
of cotton smeared with grease about ropes to keep back the ants, and occa-
sionally sionally even this does not suffece, so
that one can never be sure of escaping that one can ne
midnight raide.
Food, as may be'imagined, is yery pensive. " "Even sugar and rice," says
Mr. Lange, "which are Mr. Lange, "which are among the important products of Brazil, can be had
in New York for about one-tenth of what in New York for about one-tenth of what
the natives pay for them in Remate de Males." Preserved butter costs $\$ 1.20$ a
pound, one pound pound, one pound of potatoess costs 60
cents, one box of sardines $\$ 1.20$, one cents, one box of sardines $\$ 1.20$, one
pound coarse sugar 60 cents, and one
hasket basket of farinhar, the cents, and one
costing ingal staple, costing elsewhere $\$ 4.50$, sells there at fare is very limited, and the tood, sisting almost invariably of farinha black beans, rice, coffiee-without milk or sugar-and very occasionally jerked beef,
soon becomes almost unbearably monot, onous, As a last straw, almost every house A the village contains a cheap gramaphone and two or three screeching rec-
ords, whose "diabolical" sounds go overr the evening air, coming, above all. from a central resort at which the rub-ber-workers gather to gamble off some of their terribly-earned money. "It will
talke me years, surrounded by the com-


Remate de Males in Flood-Tim
From Mr. Algot Lange's book, "In the Amazon Jungle,
forts of civilization," says Mr. Lange, of a total of fifty-two. In fact, Remate
"to get these three friyhtful tunes (from to get these three frightful tunes (from de Males has derived its name from the Thead." yet, as has been said, compared with th kindly, and not dirty either as a rule, life in the heart of the rubber forests or in their housekeeping. The men, it as in a haven of rest uninviting huts is is true, go in ragged clothes, even when Why do people live in such a place? hockets, but they of money in their may be asked. Why do they engage in
pogularly, and such work? Similarly, it may be asked the women are as earnest votaries of why do the natives of Labrador put fashion as were ever their cousins of up with the exigencies of their fierce
Paris, albeit their taste is somewhat norther home?. The rubber-workers diferent. "They are mostly Indians," are, for the most part, natives of the
dithe says Mr. Lange, "With dark hair, bare- country; they are a art, natives of the
footed, teeth filed like a shark's teeth. people they and illiterate Pooted, teeth filed like a shark's teeth. people; they know of nothing better save
Screaming colors are favored; a red skirt
with green stars was considered at one entive woman of fashion, until an indots could also be worked in. In addisquander money on elegant patent-leathe will elippers (with which they generallys neglect kerchiefs perfumed with use their wilk handCologne, bought wat a cost of from $\$ 14$ Behind a bottle."
Behind this village, picture the dense wall of the jungle, a mass of tall traese,
matted together with riotously - growing vines and dense undergrowth; growing
 frowers; beneath all the constant danger pents; - -the jungle, beautiful, but terrble, into which the rubber-workers must go when the floods (covering an area
equal to one-third of the United go down. Picture the village, the wall of forest, as the "spring" comes on and
the rains cease and dry land begina appear, the humid air heated to an to most, unbearable degree by a sweltering sun, the ears deagened by a sweltering
"a million frogs," and by the "hrus of "a million frogs," and by the "horrible the gasping call oo monkey," "near-by
the song of alligator, and the song of myriads of mosquitoes"; then be thankful that you have no worse
fate to put up with than an occasional rainy put up with than an occasional
rainy summer such as that of 1912 has With the sinking of the flood and the
Win putrescence resulting therefrom disease
often runs rampant more fiercely before, as an instance of which, Mr. Lange tells, that in four days, in an oncampment of Indians near Remate de
Males, only twelve persons were left

MEAT. [A paper
Gillien, at
given by
meoting of the
ming Branch of the Women's Institute.] It often happens that a good deal knowledge which we are not consciou somehow into the brains of big and iit
the people the people ae well-comee very readily to All salt meat should be put in cold
water, that the salt may be extrectec water, that the salt may be extracted
while cooking. Fresh meat, which is while cooking. Fresh meat, which is table, should be put to cook in bolling water. When the outer fibre
the inner juices are preserved For making soup, put the meat over or the broth. In boiling meats, if more water is needed, add that which is hot and be careful to keep the water on the
meat constantly simmering. Remove, the mear when it first begins to boil. The more gently meat cooks, the more teinder it will become. Allow twenty min-
utes for boilling each pound of freah meat.
Roast meat requires a brisk fire.
 quired for roasting each pound of freah
neat. The variation in roasted meats consists slmply in the method of preparing them to cook before putting them
in the oven. What to do with Cheaper Cuts of Meat.-Take a neck piece or shoulder of
veal. Put a piece of butter the size of an egg into a plectlle, and put it on the stove. When it begins to fry, put in the veal, season it, and let it fry brown, When done, take cream and four, well chicken. you thicken as for fricasseed nice dinner, very like chicken, and much dinner for six ound of veal will make inner for six or eight, providing it
is not all bone. The loin and ribs it both beef and mutton are expensive


How to Prepare a Thanks giving Dinner.
Thomas at a meoting of the Hartrord Branch of the Women's Institute.] It might be interesting to find out the
origin of Thankggiving, and see why it

 Pilgrim Fatiers, Yhis name was given to America to seek religious liberty do nied them in Enstand.
Atter a stormy and dangerous passage,
they made landing on Plymouth Rock they made landing on Plymouth Rock
the 9th of November, where they found od a a cony whici bocame the germ
the New Englatind States Che New England States.
We find they sacrifeed. nd loved ones, for themes, country,
 whe they landod, they foll on their preserved them, amid so many dangers. foundation of their figned documents as the government, solemnly conbining them-
gelves in a clvil body to enact all emb ordinances, and trame all such constitu-
tions and offices, as from time to time eral good. So here we find the origin of Thanks-
giving, and it has become now an anhual national festival of thankggiving Nowhere is it kept with cuch zest as in in
the New England States, where it as the ereat annuan tamily, where it ranks
ling the place winal, tak. Ing the place which
corded to Christmas And so, on Thanksiving, multitudes
of poople in the temples. of religion, and
in their homes and thankgiving hand, meet together with
own way, as they hatue, each in their
have been beesed No doubt the thingss prized most, when
it comes to the final test, are things that cannot be bought
asking, such things ous country, happy our peaceful tamilies, triendships and confidence, and us in life, as it is in our climnate, the cloudy and stormy; happiness is the cur- notable feature in celebrating the day
but the old-time houserkeeper could not
live from hand to mouth, as her grat granddaughter can. She had to be
forehanded in every department; her forehanded in every department; her
preparations for Thankggiving began long
before that day. Pickles of all sorts,
apple-sauce and preserves were prepared apple-sauce and preserves were prepared,
weelcs ahead. . Mince-meat was mixed weeks ahead. Mince-meat was mixed thavor. The meat had to be minced in did not come seeded, nor the spices
ground, and even the sugar-1oal had to When the time came to fatten the tur
key for the feast-day they soaked barley or oats for the first with
and and for the last two weeks they had, in addition, rice couked in milk, to mak
their flesh white and fine lavored. Everything in the house was spick an span, and stores of all kinds of food
were cooked, not only for the great were cooked, not only for the great din-
ner, but also that there might be abunn ner, but also that there might be abun-
dance for the guests, and leisure to en-
joy then dance for the guests, and leisure to en
joy their visit, as some might be stay
ing over ing over. All preparations were made
before the day came, so that except for the necessary cooking, the that except for
Sunday. Of coure was like Sunday. Of course, all cooking and
baking was done by the fire-place and old, brick ovens. All vegetables were ready for the pot the night before, the
chickens stuffed, the cranberry - sauce chickens stufled, the cranberry - sauce
made, the puddings prepared, and noth-
ing to do but cook the dinner. had been a great pie-baking time before hand; mince, apple, cranberry, pumpkinin,
and dried blueberry, enough to last for
weeks. weeks. The covered ones were frozen
solid, and slipped of the plates one
above another in big, earthen jars; then
they were themer they were thawed one at a time as
needed, and were as good as if freshly-
baked. There was only one way to serve tur
key, and that was stuffed and roasted to each cup of bread crumbs, one or two
ounces of fat was allowed; this mixht
be butter, beef ounces of fat was allowed; this mipht
be butter, beef suet, or fat pork chopped
fine. The fat was warmed and blended fine. The fat was warmed and blended
with the crumbs, seasoned with salt and with the crumbs, seasoned with salt and
pepper, mixed with herbs, and moistened
with hours were allowed for roasting a then-
pound turkey; the oven was made ver pound turkey; the oven was made very
hot at first to sear the outside quickly, then the heat was reduced so that every danger of burning the outside. It was basted often with butter and water, and
sprinkled with flour to insure even sprinkled with flour to insure eve
browning, and a crisp, tender skin. Raised doughnuts were always used on
the Thanksgiving tale called nuts, perhaps because of often
brown crust ard their brown crust apd rich substance; the
were often made into fancy shapes please both young and old.
on Monday to allow travelling men to spend the day at home with their fami-
lies before leaving for their and it is quite for their week's work, housewife to prepare a special dinner for Monday, as it does not leave much time
to prepare anything to prepare anything beforehand. But
with our modern ways of living, it does
not take not take as much time as it did our
great-grandmothers. However, we can prepare our puddings, and pies on Sat-
urday, and plain cake, cranberry - sauce urday, and plain cake, cranberry - sauce,
salads, pickle, and bread and butter we
have always ready, and our fowl can got ready on Saturday. By rising a
little earlier Monday morning, we are Country people have such an abun-
dance of everything at hand, that it is not hard to soon make up a dinner out
of the best our country affords, and we
need not count the cost like our city
friends, if we want to give a Thanks. giving dinner.

Announcement pe Pear son Flower Garden Competition, Pee , Ont.
$\qquad$ he has offered in the Flower Garden
Competition Por Peel Co., Ont., have
been awarded as follows: 1, Mrs. D.


An account of the flower-judging trip

Hope's Quiet Hour

## Sepvant of All

## For whether is greater, he that sittet

 at meat, or he that serveth? is not hethat sitteth at meat? but I am among you as he that mearveth.-S. Luke xxii.:
27 . Our Lord has laid down as a rule this fact, which is perfectly natural and true
to common life, and yet which sounds so strange: "Whosoever will be great among you, shall be your minister : and
whosoever of you will be the whosoever of you whll , be the chiefest
shall be servant of all," yesterday that I pead in the paper that the sister of an English lord had sold
her possessions and was livit her possessions and was living on five shillings a week in a little cottage in
Ireland. She has become a trained nurse, and is devoting her life to the service of the poor Irisk peasants, many
miles away far greater than if she were living a life
of selfish pleasure, served by the instead of serving them ?
is taken by Christ to illmon experience who is sitting facts in the universe. One vant to wait on him, is acle, with a think that the servant is beneath him Man in history solemnly declared that He did not come to be served, but to serve. If He had chosen to live
palace, with many servants to
Him, the world would not now acknowlHow delighted the "laboring men"-as
they are called-are to claim the Carpenter of Nazareth as a true Comrade. sional, working honestly for His daily bread. Afterwards, He was ready to to
heal sick bodies and heal sick bodies and souls whenever the
opportunity offered. For thousands years He has been doing the same thing, those though the hands and hearts of those who are trying to follow His of
ample, and who dellght to say with St.
Paul. Jesus' sake." "Ourselves your servants for If those who serve most are the great-
est, then God proves Himsel the est, then God proves Himself to be the
Greatest, because He only is the Greatest, because He only is the Servant
of all. He is endlessly serving, and no creature of His maslessly serving, and no
cant as to be is so insignificant as to be passed over. The sparrow
falls to the ground oto die, alls to the ground oto die, and no one
cares-no one but God ! Sparrows such "common things." It cannot be in
trouble "without the Father," to hold it tenderly in His strong hand. to hold
possibilities open before possibilities open before us as we think
of our Lord's hint on this subject.
the the Father loves the sparrow as it dies. is it likely that His love for it can be
quenched by ita death? and Ho quenched by ite death? and He is not
the God of the dead, but of the living
for all live unto Him. for all live unto Him. Does He destroy,
or allow anyone to destroy, the little
bird so dear to Him? bird so dear to Him ? He clothes the
grass of the field and the wild grass of the field and the wild tower
which we heedlessly trample under foot.
if He dies If He does not love trample under foowers and the
grass, how can any of His children love them? He is their Servant, dressing them in their tresh and dainty robes,
washing them with the dew and the rain, supplying all their needs.
Some people, who need the have their
eyes opened, tell us that ."o eyes opened, tell us that "miracles don't
happen." It seems to the that happen. It seems to ine that miracles
hapen everywhere, and always. Tenny-
son reminds us that if we were wise
enough to undercint enough to understand one we little flowere wise
growing in the crack of a wall, we should
be divine in our intellect be divine in our intellect and able to to theuld
understand God. Here we are at Thanksgiving-time
again, reminded once more that we have caune, reminded once more that we have
gitts which are for the cor pricelcess common which we are inclined to acceplt as yet a
matter of course. Where were the vege-
tables, grain, and tatles, grain, and fruits were the vege-
from countered in
They were partly filds). six mouths ago? They were partly earth, parly rain, and
sunshine, then. The Father hows that sunshine, then. The Facher kinew and that
His children whill weed fond, therefore
very clever-with the materials they find if we had to depend should soon starve maktity food. Give on their powers ot materials God uses-the seeds, earth, air water-and see if he can make one pó "so commone"; and yet, These things are
Servant did not melte livine Servant did not maike the
be forced to we should make flour, but oply God. Men can wheat. Enless He, Who is Servant of all, spread the table with the good
things $H e$ had provided, none of
 great He waits on ever everyone aid on is
every living thing Our Lord, in this as in all other things, was the revelation to men of the
ways of God. When He was full of the bering "that the Father had sivem things into His hands," He was impelled ness to stoop to the lowliest act greatice within reach. He carried out the om contained in our text, by rising nized Master and Lord of the party, and St. Peter ordinary work o thought that His Master was offering to wash his feet-are we accepting His
daily, hourly service, in the aily, hourly service, in the same spirit,
of humility ? "If I wash thee nor,", Was the convincing reply to the disciple,
"thou hast no part with Me." Unless He is willing to give us our daily Uneas
we must die, but at we must die, but at least we should not
accept His tender service rudely and thanklessly. It was not only when the Master
walked as a Man among men that He carried out the promise of the text. was left behind, and He had earthly lif ously to the new life beyond death
which is Which is so mysterious to us because we still was delighted to take the it, He a servant and do a servant's work What a beautiful story it is, that story
of the breakfast of the breakfast by the Lake. The and were hungry and discouraged. The had caught no fish for breakfast, They could not satisfy their healthy appe
tites.
Their Master-Whater hungry multitudes in the wilderned the ver chere, or so they thought. Is He done their best, and need Him? They to having servants to wait quite unused their self-appointed Servant had made them a delicious breakfast. Not satis
fed with them to eat and waited on them Hinvited
self. "Jesua self. "Jesus then cometh, and taketh
bread, "and giveth thema, and fish likewise." He is always, preparing like our
meals, and always waiting we eat, though He no longer shows Him-
self openly. How could we change stread and fish, or any other food, into He gave us the the mysterious and lower ans mantion? if the digestive power of a
man is destroyed, the bread remains No one is decays, doing harm, not good.
everydey mise enough to perform the everyde.y miracle of digestion by his the just now aboure hearing a great deal "Spontaneous there was no life beforation" Considered impossible; now it is by to many
declared to be within declared to be within the bounds of pos-
sibility. But if be no infinite chasm if after all, there should certainty that there still remains the Giver of Lite, whether it be animal or
vegetable life. Scientiond mayy wonderful Scientists have done many of the mighty forces which Ged
has placed in this world of all-such forces as electricity, gervants
tion, air, water. fire of giving wite is fire, etc.,--but the power
of IIIm kept in the hands hlade of grass, that "The Life." Not a
extract necesser enough to extract necessary food from the earth,
air and water, can, the wisdom of men
create; not an ans mos. man and

OCTOBER 24, 1912
THE FARMER'S ADVOCATE
and Alowers, and grain and vegetables, woman to build up a home where peace
animals and men.
Ho animals and man. Ho is so rich, and and contentment abound. Neither one
we are His
Hoved children; why, then, can take the mance are we often worried about our neecssi- can take the place of the other, but each
ties? (ur Father knows that we have ise complement of the other, the

 nouriahing and delicious tood we want. love-there will be no question of duty,
but each will be wettching to help. "To
 the earth He can make wood or bricks
for our houses. Hidden in His earth are gold and silver, jewels, riches of all
hinds From Him came tar kinds. From Him came far m
precious things than these-the our friends, Joy, hope, peace, the know
edge and love of God. edge and love of God.
Let us really be thankful on Thanks Let us really be thankful on Thanks
giving Day, thankful to Him Who is glad do serve us all; Who gives us sun-
ghine and rain, sweet air, dear triends, and countless other blessings. And let us prove ourselves true children of the
Divine Servant; foeling ourselves highly honored when we have an opportunity honored when we have an opportunity
of serving anyone, willing to follow our Master by preparing meals for hungry
men, and waiting on them while they
 is always doing. Why has Ho made so many creatures? ?. Why is He constantly
making countless millions more? making countess matis neens my overyone
His ervico is almeys -oven by those tiny creatures which are
so mall as to be invisible to us it must so small as to be invisible to us-it must
be that Ho wants to have more and more to serve. His love of service seems never to be satisfed. Yet we,
Who should be like our Father, are apt to think it hard on us it we are expect od to do a little work without pay.
The prophet Malachi said that in his The prophet Molachi said that in hid
days no one would shut the doors of the Lord's house, or kindol a Are on His
altar, unless they were paid for it His altar, unless they were paid for it. Did
our Leader demand pay for washing the feet of His servants, or for cooking their breakfast? The only path of greatness is the path of service-pay or no pay, recoiving thanks or ingratitude. That
is our Father's way. Is it ours DORA FARNCOMB.

Star-led to the Heights. A Christmas story, by Dora Farncomb
author of ."Hopes's "The Vision of His Face." Price ${ }^{\text {as }}$ cents, postpaid (or three copies for
dollar).
The William Weld Co., London,

## The Mending Basket

(1) reply to sherard mcleay. ous opinions as as to man's duty about then the tor the house, and, withal, rather aggravat-
ing to be told that "call farmers are ha to ", or to be classed among the men d Sherard McLeay's acquaintance. Just here, let me say, and say it emphaticalwives, either, are no worse or no more ealfigh than any other class of men or Parmers, but there are selifsh men all through the world. I know at least
one minister of the gospel who will not not one minister of the gospel who will not
allow his wite to handie the moneypays for everything himself, from the milkman to the dressmaker-and I know
one tarmer's wifo who ulways goe to
ond one farmer's wifo who always goes to
market with her husband to look atter the money. She will ride in with a load of hogs, and always be on hand when the cattle are delivered or grain-tickets have their wives with them, but this woman's husband is sober and capable. It would hardly be fair to judge all
ministers or women by these, whuld it? As to Sherard McLeay's day's work, it
is
a
sheer physical impossibility, and needs no further attention. I know of Very few farmers in this neighborhood
where the men do not help with the Where the men do not help with the
milking, or do it all, if there is only milking, or do it all, if there is only
one woman; and I know of no woman Ote woman; and 1 know of no woman
who has charge of pigs and calves, but I do know iote of women, and men, too,
for that matter, who are working too
 Nhat is a man's duty about the house? times where it is carried out. The trouble is that we are too ma-
terialistic, too busy worshiping the dol
lar to apprecian life; too blinded by use and custom to

o. 207-Tailored waist, stamped on two spirit to acknowledge the Great Giver, Wherwise, at least, than with the lips. when you toil and slave and save, and make the woman you promised to love and cherish, slave and save, and drive
your children from you ?-a failure not by any means peculiar to farmers. not what is the object? Stop for five mingaining. There yourself what you are there is the most abject degradation in slavery, and no man is as mean a slave
as the man who serves money. And
vomped on $1!$ yar 75 cents.
voile, at
Desigens for Emibpoidered
Blouses.
There is a never-failing demand for
embroidered blouses, and although every
season one hearr that, separate waists
are going out of fashion, this prediction
has always proved falise, and they remain
as popular as ever, and as hong as the
coat-and-skirit costumes retain their pop-
ularity, so will the embroidered separate
waist, and thus it follows that all the
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as popular as ever, and as long as the
coat-and-skirit costumes retain their pop-
ularity, so will the embroidered separate
waist, and thus it follows that all the appreciate themselves as truly as men
appreciate them; they don't half their own power. If they did, they
would not be asking for weaker sex? In physical strength, yes,
but not in endurance but not in endurance; in their own
sphere are infinitely the able, if they but knew it, to lift the
whole Who loves us all," but it can only be by
the way of the Crose the way of the Cross. And alter all
it is no question of rights and wrongs, but of love and service, and common
sense. sense.
Bruce Co., Ont. "FARMER."



No. 8535-Stamped on two yards
linen, at \$1.35: stamped yards of voile, at 90 cents.

newest. ideas along the line of art em-
broidery appear first on bloûse designs and it certainly put forth one's best efforts on an articte orative.
Hand-embroidered waists, are very expensive when purchassd ready-made, and our readers will find a consolation in are inexpensive, and the embroidery fascinating occupation for leisure hours. These waists are easily made up atter tie trimming to complete es embroidery is usually the only decoration needed. The most, Tashionable materials at present,
marquisettes.
The first waist, No 207 , is stamper on two yards of 36 -inch pure, fine linen, and is one of the fashionable tailored
models which launder benutifull models which launder beautifully. It is and eyelet. White cotton thread is used for this, Size "E"' for" the eyeletting, and "D" for the solid, padded stitch. No. 211 is a lingerie waist, and may beautiful design shows a combination of the fashionable Punch embroidery, with eyelet and solid. We will speak of this work more fully below
No. 216 is one of the still fashionable tremendous rage; the Punch stitch being embroidered in white, and the remainder of the design in blue. This waist is for set-in elment material to allow for the kimono style.
The Punched, or Normandy embroiders is having a tremendous vogue, which promises to continue, and become as
permanent as the eyelet and solid, which is in such general use. The work is easily done, and on receipt of a stamped envelope a diagram which may be easily copied will teach you this effective em-
broidery. Linens of a special open weave are necessary for this work; which can also be embroidered on lawn or mar-
quisettes. Special needles are also No. 8585 is one of the newest modelf, having a combination the odel Relief and Punched embroidery, and pould bo dimcul to imagine a more st than thi
No. 215 shows a kimono waist stamped on voile, which has been embroldered
with shades of white, pink and black,
using rope tilk using rope silk. This waist has been which so successfully imitates beads stitch Any surther ing fellan beade working-up or materials used on any of these waists, will be supplied on receipt a stamped envelop Readers will please understand that the nly. Material for embroidering er extra, and we do not supply made-up or embroidered articles.
A commenced sample of Punched emtill be sent on receipt of 25 cente Also a commenced sample of Venetian Relief will be supplied at the same price, and special threads will be quoted. Address all orders to Embroidery Dept.

## To A Brown Thrush

By Alice D. O. Greenwood. Dear ilittle bird on wind-tossed bougi Singing away through the pelting rain Happier far than I art thou;
When storms assafil you hen storms asseft you ne'er complain "Cheer up, cheer up, cheer up" you cry
Who taught thee thhe to sing, end In notes so clear,--so sweet, so high Dear Hittle bird with rain-wet wing Brave little bird that all day long When the skies are bright, or skies are Dost cheer me with thy matchless song Oh, tell me, it thou canst, I pray. Is this fond fancy but a dream,
That thou when summer days have Wilt wing thy fight o'er vale and stream To some fair spot that I have known By some dear friend now far away, By some dear friend now far away And sing to me when skies are gray
n-



The Beaver Circle.
OUR SENIOR BEAVERS IFor aul pupis trom Senior Third to
almost unfaitheul An old man used to tell the Iollowing story, whose incidents, he said, happened
When he was a young lad fust starting to follow a team on his father's tarm.
 morning, leaving my tivo sisters and boen plowing for a few daya back 1 had I remember the pride with which trutted to the fild that morntig gafter Pottrea,
place:
"I hat not gone more than three or lour rounds when I heard someone call-
ting me. Looking in the direction from Thence it came, 1 found three of my companions, each with a gun. They
anted mo to go hunting with them coures, I only laughed at them. The tedea that 1 , who had the responsibility of the occasion, should shirk my duty "Tt was was ridiculous !'
ever, tor hunting, and $I$ mae fuat low ing for a day out again, but of course
could not But they coaxed so hard ! them that day. they told meoned ow, hat I remember one of them advising me to toll my father
next day, if he thought next day, wige thought had not
plowed enough, that took siek and I did not like to leave it. That kind of persuasion did not afloct me much, however. I thought if I went that father would not noticic" thee
diflerence in the plowing after all. Anany consented to go, partly relieving my conscience by thinking that it was $t$ their fault for coaxing me.
fally, and we drove the team buack to the stable again. I thought they had botter be unharnessed, and the boys said
 the house, and was just in the act cleaning my rifle when I was aroused by a shout trom the stable. When I got own I round one of the young lad
ling perfectly
stinl on the tang behind Polly. As he was as white as sheot. I thought he was dead for cerain. $\begin{aligned} & \text { One of the follows who thought } \\ & \text { the eiad had tainted, rushed out }\end{aligned}$ pail of water, while the other tellow wa eeling his pulse to see if he was alive of who had the least prosence of mind anyone, stood watching him for
awhile, and then ran for help."
carry, me, 1 was not long in bringing however, the the When wo got bacl foor smilling lad was sitting on the were, safe, and none too dry, but we directions we soon hed him all right a good time we had had at Port Dover again. I then was myself enough to ."What had happened."
whose tomper $I$ was unharnossing Polly,
them was somewhat irritableon to tol
to take harness ofr, and was going had
him, knockion collar, when aho kicicked
him in the position whero It and leaving
"It certainstion where I found him."
$\begin{aligned} & \text { It certainly settled imy struggling } \\ & \text { consolenee, for when he was all } r \text { right }\end{aligned}$
went straight when he was all right, to work. I
sten laughed at my woif since, but I
Grey co., ont.
a trip to port dover
bo
by
if
cour
on courre wanted to go to she told us to gote Doter Courbo we wanted to go, so we got tup
and gtarted to got ready Wo

 drove up. We all went and got in. It
was sort. was sort of "Jjammy," for there were
seve or us in all, but we managed it all right.
We reached the Burgessville station at about a quarter to teven and got our tickets. In a quarter of an hour the
train came in.
We boarded it. but couldn't find a seat, so wo had to stand up all the way and we were preparad Yor a little rest after standing up so
long. We ha
We had a lunch shortly after we arice cream Then We got some poporn and
our bathing anto about an hour, we got our bathing suits on and went in bath-
ing. We had great fun, ing. We had great fun, for there wer
many in the water whom tw kne There was an iron swing in the and a teeter. We had teeters and swings. We stayed had tetetars and get our dinner. $I_{\text {was }}$ was orrye or tot and water, or being on it.
After we had our supper it was nearly time for ouz home-bound train.
> ol the cars that the station, but most full; , Bo we that ware unlocked were pler. There were a fisherman and his pili. Thinge wiere a fisherman and his
the traing fishing when we went back to the train. There had be went back to
locked, so we went in band a dor unlocked, so we went in and got a seat.
We had to wait for the men to put an
other enging other engine on on the the men to put an-
otwo and to put
two more conche two more coaches on. At last it start-
ed. When we mot ed. When we got to our station it was
raining to "beat the band."
zenda, ont

## Re Gapden Competition.

 All of the "garden" letters, with photos, are not in yet, so 1 amo goingo give you two weoks send in your two weoks' grace. Kindly reach this oftece not later than Novem-
ber 7 th.
This is the last notice that ber 7 th. This is the last notice that
will appear in rogard to the darden Will appear
"Bess" - A Hopse By Daniel w. Gallagher. Cuilty, yee sit-that's my plea.
 I don't set it down as er diggrace That $I$ struck that man and cuused hin Pain;
Why if $i t$ were to happen againI'd d be sore terpted ter strike, I gue
Any feller I caught anusin Any felier I cuaght abensinive, Bess.
Who is shess, Who is sho?-Jove! I thought you knew.
she's just a horse a good one, too That I used ter drive good one, too, When I saw her toilin" erlong ther wa With a load piled high by bunglin' fools That would tax the powers of twenty My mules,
And 11 hated the driver and pitiod Besesy
They say dumb beante dop't But Bess, why, bless yer, she knows er
frie And she stopped right short in glad surprise;
I could rea
could read ther joy in her honest eyes. Sank doe, come, which, like heart: my breast and touched my For it seemed ter say: "I don't complain, But how I long ter be back again
With you, old friend as a When you fed rand peeted and cared for Then the." driver struck her. welt. It seemed as though that blow I felt;
So 1 sprang ter ther stren I sprang ter ther street and peellod
my coant In er monent more I had clutched his And hurt him some, I must contess, But he ought not ter have lashed old
Bess. What's, that yer say, sir? I may go. And after this folks canat, yer kno And arter this folks can't tell me mo
That fustice ain't dealt as it aught ter
be.

And so, that's all I have ter say,
Exceptim', perhaps, that I I couphtint perhaps, that yesterday She's got an owner whotll treane. Who'll see her through orer Who'll see her through ter ther very end,
For ter me she's just like an old-time For ter me she's just like an old-tim
friend: And never again will she have ter haw Will she occupy load, but a blg box stail Will she occupy and reign ther queen
of er fine big field where ther When ${ }^{\text {green. }}$. When I get back home I'll tell all right How yer stood fer treatin' ther hores -Boston Traveller

## The Secpet of the Machines.

By Rudyard Kipling.
We were taken from the ore-bed and the Wine,
wit- melted in the furnace and the
We were cast and wrought and hammered We were cut and filed and tooled and
Some wator, coal, and oil is all we ask, And a thousandth of an inch to sive us play,
And now if you will set us to our task And now if you will set us to our task,
We will serve you four and twenty

We can pull and haul and push and We can pull and haul and push and
lift and drive, We can print and plough and weave
and heat and light and heat and light.
We can run and
We can run and jump and swim and
fly and dive, We can see and hear and count and read and write :
Would you call a friend from half acros If you'll let us have his name and town You shall state, and hear your crackling You shall see and hear your crackling
question hurled question hurled
Across the arch of
Across the arch of heaven while you Has he answered? Does he need you at You can start this very evening if you And take the Western Ocean in the strid thirty thousand horses and some
screws ! screws :
Do you wish to make the mountains And lay their hew-cut forests at your Do you want to turn a river in its bed,
And plant a barren wilderness with wheat?
Shall we pipe aloft and bring you water down
From the never-failing cisterns of the
snows,

To work the mills and tramways in your
And irrigate your orchards as it flows?
It is easy! Give us dynamite and
drills! Wrills! We iron-shouldered rocks lie down and quake
the thirsty desert-level floods and And the valley we have dammed becomes a lake!
But remember, please, the law by which We are not built to comprehend a lie, We can neither love nor pity nor forgive.
If you make a slip in handling us you We are greater than the Peoples or the Re humble, as you crawl beneath our Dur touch can alter all created things,
We are everything on earth-except the Gods ! except the
Though our smoke may hide the Heavens from your eyes,
It will vanish and the stars will
shine arain Shine again,
Because for all our power and weight We are nothing more than childre We are nothing more than children
of your brain!



The Ingle Nook.



DDear Ingle Nook Friends, -We were

 ever said whether you are especially
fond of books about gardens or not but if you love the gardens themselves, as every good countrywoman should, I care much about gardens, but lowe books at all, I am sure you would like this eo close to hersalt. her tizeth brings one dislilikes, and her manner of living and her Garman land.
As in the "German Garden" she tells again of the fowers that made her little
world a Paradise, and of the little sometimes naughty, angels who there
abode,-the April, May, and June phies abode, the April, May, and June babies;
for Eizizabeth cannot live without child ren any more than without flowers. She tells you or her strolls, and
thoughts, and impulises, and little dnily doings, and so you ramble with her and the children through the woods, and
down to the quaint old cemetery; and you see her asaint she rushes ort to be alone or a while, hugging a Thoreaur
under her armm and fnally throwing herself down to lie on her back beside the
pond that lies in ", pond that lies in a, "dimple", of the rye
fields. -just to look up to the blue sky and think and think; and you creep out


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for Ten Days' FREE Trial, the greatest labor saver ever invented. the


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 So frirthermore guarante that it will da
saisfut orily tho Work for which it had Ren Rola, and it the event of failure tod

Tho Geo. $\underset{\text { Woodstock, }}{\text { H. Ont. }}$ King Co. Limited
"KING EDWARD" VACUUM CLEANER Not only is this machine the most
powerful and yet the easiest to powerfu and yet the easiest to
operate, but the price is the lowest, because, we have eliminited the
jobber's and the dealer's profit jobber's and the dealer's profit,
selling direct to yout We want to place the King Edward. Vacuum Cleaner in your home. We
want you to use it want you to use it on your carpets,
hangings, mattresses, furniture and hangings, mattresses, furniture and
hardwood floors. The suction is by double pneumatics that means
the very greatest efficiency mat the the very greatest efficiency means
least expenditure of energy. the

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 This machine quickly pays for it.self in the labor it saves. It is a
wasto vaste of money to be without it.



The Gbo. h. King Co. Ltd.
 free trial, without obli igation on to me me. ${ }^{\text {ass }}$
Name....
Addres.

 at the wonders of the air, to marvel
watch the soft watch the soft and silient coming of to
dawn over the woods and hills and the hy and the flowers all about Then tion at ber you listen. to her exaspera
(Heell "feel" the soul of fowers, who cannot
and beautiful things as sile she terested How interesting she is 1 this them. terested, spirited, clever, witty, unusua
vet entirely

How delightululy she understands child-
 place, for instance, she tells of the com-
ing of their tutor he came I was arraid they "The frist domy dould be shy
of such a bia straid then

 together, and as I shut them alono dor, I
heard them eagerly intorming doin, Way of opening the triendship, him, by
heads were washed every and whate whathed every Saturday night,
match becauser thair riboons did not at the one there had not been enough anything ever more tro goo around." Really I don't know where to stop
quoting from this charming fuoting from this charming little sook
The boy who watered the lown it appears had who watered the lawn,
cutting across cornentesome habit of a way thross corners with his cart, in
turt. Curt. In Whastul disastrons to the green
ed. that. by malk Elizateth suggest-

 The lid. "T asked the June baby", she
sans., ..Wo had several times noticed
$\qquad$

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uses on Large siner-canion It's afe
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 FREF ourt
 atbok of 9 g parses muncel


THE FARMER'S ADVOCATE



 diable fay thero all the time with the



Like all other children, Ellizabeth's
wero tascinateted
ith



 hungry or ir ir wero leas prosesic,
might have gloomy forchoding ceen interest wainy prophentiotioss ot that such lite, and in books, wo know, the chiluren
who talk much
 tial parents a quantity of advice. For tunately such children are confined books, and there is nothing of the minis
tering child-surely a very form of infant-about my uncomfortable deed, I notice that in their conversations
together on such spirit of contradiction matters a healthy afternoon, after having accepted and this defnition of angels with apparent rever-
ence, the ence, the June baby electrified the other
two (always more erther ing) by remarking that ax and yield ta be deep in my booke. I pretended ing ; April and May wook and not listengrass sewing ('needling' they call it)
fearful-looking Seraphine's birthday wool-work things for ing idly against a pine-trunk, was lean-
a headless doll rounging one remaining leg, her heels well duy into the ground, her sun-bonnet off, and all the yellow tangles of her hair falling
across her sunburnt, " 'No', she repeated fir lace. eves fixed on her sisters' startled faces, 'I don't want to. There's nothing there "' 'Nothing to play with ?" exclaimed the other two in a blay with ? exth-and throwing down their needlowork they made a simultaneous rush for me.
"'Mummy, did you hear? June says she doesnn't, want to go to the Himmell'
cried April, horror-stricken " 'Because there's nothing to play with
there, she says!, cried May, breathlessly, and then they added with one voice, as
though the threshed out and settled between them.
'Why, she can play at ball there with all the Sternleins (little stars) if she likes, across the firmament and hurling the
stars about as carelessly as though the
were tennis-balls. were tennis-balls, was so magnificent
that it sent shivers of awe through me
" 'Rut if you break added April, tourning severely to duls,
and eeyeing the distorted remains
and
hand. 'I hand, 'I don't think liebere Gote will let
you in at all. When You're big and
have tiny Junes-I think yon
them to them tiny Junes-I think you'll break bieber Gott doesn't love
mummies what breaks the

disputes in which I am invariably
I have quoted enough of "My Solit
tary Summer" to show you what
charming book it is not profound o
deeply philosoonhical-just a book which yhu can smile, from which yo
will often want to quote are sure to want to read again. In my
own own little library I never place volume
that will bear but one reading. I find
ither it a good plan to read books first fron
the Public Library, then I keep a lis
of those that I of those that I am sure I want to own
those that I shall be sure to want to
reand again and again, the books worth

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University
Scholarship won in 1909 and 1910 . Boys prepared for Agricultural College. REY. J. O. MILLER, M.A., D.C.Lı,

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 years. Why worry with hose that wear out in a week
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in cotton for men, women, wearing " "Holeproof
children and inf
because of their wonderfu. children and infants, six
pairs $\$ 1.50$ up to $\$ 3$, accord-
quality the the eir softness, com
fort, light weight and style
 $\begin{array}{cc}\text { guaranteed six months. } & \text { We pay the top market } \\ \text { Wer make them in. silk } \\ \text { for men and woment three for our cotton yarn- }\end{array}$
 pairs for women, guaran-
teed three months, $\$ 3$.



## foleproof flosiers

Send Trial Order Now!

## Send the coupon to orour left for a trial bo TonA Y! Soenhow good hosiery should wear even the



\section*{| 44 |
| :--- |
| 4 |} the money in any. convend

ient way. Thousand buy
from tis This way buy =awew wat HOLEPROOF HOSIERY CO. Ilimitel $a_{r e}$ Yout Tosse alnsutud?

## 4 Gray Engine for every Sobs




## Avondale Holstein Cattle

AND DORSET HORNED SHEEP.
 Yearling rams Adress.
H. LORNE LOGAN, MANAGER. A. C. Hardy, Brockville, Ont. N

the star just made ; draw a loop up
through each of the next 3 at through each of the next 3 st. (thts will
leave 6 loops on the hook) : draw the yarn through these and close, as in the preceding stars. Repeat to the end of
the ch., and break off the yarn. the ch., and break off the yarn.
Now for 2nd row, draw the ya through the outer edge of the first yarn made, and make a ch. of 3 st.; throw
the yarn over the hook and bring a the yarn over the hook and bring a loop
up through the last st. of the ch. just made (the yarn is thrown over the hook only for the first st. at the beginning
of each row); take up 3 st., drawing up the last loop through the first st. be
yond the first eye. Repeat to the end of the row. Break off the yarn.
Now having
next 3 having made the 34 stars make
other color same, only using the other color chosen, say, olive gring the
the last row. This makes the
ther Taking up the other makes the collar.
first made, work 2 st first made, work 2 stars of 5 st., then 1
star of 4 st. clear across. This will
give star of 4 st. clear across. This will
give about 42 stars.
2nd row-widen after the 12 th 2nd row-widen after the 12th sta
from both-ends.
3rd row
 before drawing the wool thrs;
faten then the star, drop it and pick up
fatrand to the strand of the green and work 2 stars;
then before drawing the wool through
the last green star drop it wnd drew tan wool through; continue with tan
stars, widening as on other side.


~ Old Things Look New a \} when they are dyed with Maypole Soap. It gives them beautifull, rich shades, fadeless in sun or rain.

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is very easy to use, and will not stain will save you many dollars a year. 24 colors to
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## ing off 1 star at each end of each row which completes the shield

 One skein each green and tan German-town wool is required for this shield

## be used, white and pale blue main especially pretty for a prirl children

of chain at beginning keeping the number
of stitches uneven A pattern for a sailor collar to matct
can be given if anyone would like it.

## PARSNIP WINE.

 Here comes a recipe for parsnip winefor Mrs. D., Wentworth Co., Ont.,-all the wrs. D., Wentworth Co., Ont., -all
it was sent by the Winn editor of the, for it was sent by the editor of the Ingle
Nook in the Western 1ranch of our paper.
Take 15 the. slical



- Hap Constrinctin


8th row-Drop 2,7 tan stars, 2 green,
tan. Work 7 rows of tan stars len




## STME

 BANGE THERANGEFOUALITY

The Body of Range is
ade of best cold rolled, blued,

 gallon of liquar. Boil all for 4 houry
When it is nearly cold add on toast, leanerly cold remain ald a little yeast
days, stirring it from in a tub for 1 the day, then put it in a the cask for a a yeary.
As it works in Another that over fill it it ape ach day.
monthe is ready in monthe is made as follows: Take 18
los. parsaips and 10 gals. water.
the
 add 3 ms . lump sugar. Boil 1 quor yeast on toost. ferment with a little
yet stand 10 days in
atub. a tub, stirring every day, then put in a
cask.
and well ventilated, and is made of one piece of heavy sheet steel, hand riveted. No dust. No warping. No cracking. Steel Oven Racks. Fire Box large and deep for coal or wood. Special wood fire box when wood is to be used steadily.
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 made of best cold rolled, blued, planished steel, with lining of heavy asbestos millboardLarge Top Cooking Surface with wide, short centres between pot holes.
Hinged Front Key Plate over fire, can be raised or lowered y crank.

SEASonable kecipes Grape Cataup.-Wash, cook and strain
3 ths grapes; add 2 tbs. sugar.
 Cayenne pepper and 1 taspoon salt.
Boill twenty minutes then bottle.
Criddt Gridale Shortcake.-S Sirt two cops four
and
teaspoon
salt.
Blend
1 cream, beating woda in 1 cup rich suour
mix quickly with to the four and into a cake a Houred board and roll out pan. Have the pan heated and greased
put in the dough, cover set hal-way back cover with a lid, and
the calke the range where When cake will bake withounge whirere
the wrowned on the botto the cake and brown the bottom turn
Serve for the tea wide wite syrup, or honey and cream.
Brown Nut Bread
 IIour and 1 cup whito four together.
Add 1 teaspoon sugar,
and and 1 cup
and molasses. spoon soda in a little warm water, mix
with with 2 cups buttermilk and add to the
flour with 1 cup raidins and four with 1 cup raisins and 12 watnut
meats broken in bits. Stir well
into into a well-buttered bread tin and bake in a rather hot oven 50 minutes.
Beans for Supper Beans for Supper.-Wash the beans,
soak overnight, then cook untilit tender:
Pour off the water

 1 qt. water tor five minutes, then cool
and and add one cup apple pures (stewed
apples rubbed throun
and apples rubbed through a sieve) 1 cup
white ${ }_{\text {Freeze }}$ and serve topped with whime
 granite dish, deeper than a pie plate,
F4l with saliced apples about a cup of sugar, $\ddagger$ teaspoon salt and a grating of nutmeg or lemon rind.
Put on 2 tablespoons butter in bits, add 2 or 8 tablespoons cold water, cover
with pastry and bake The oven must not be too hot. ${ }^{\text {Serve }}$ with or without creaim.
Fed along with your other hog foods, it supplies what is lacking-protein, the flesh and strength developer
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## Imp. Clydesdales and Peicherons

I have 65 head of Clydesdales and Percherons in my barns to choose land and France, and other extra show horses that have not et been shown. I have never had so many good horses well to see through my barns before buying. My horses are all for sale and at right prices. MARKHAM P.O., G. T. R., and LOCUST HILL, C. P. R., three miles
T. HH. HAASARD


"Chinese lilies."
Start "Chinese lilies," really a species of narcissi, at any time now as follows:
Remove the brown outer coats, make three or four vertical cuts in the make
scales Pour on luke-warm the bulbs in pebbles.
Pour to cover, and place the dish in a light window in a
room in which the temper uniform and not too hot. Paper-whit narcissi may be grown in the same way,
but should be kept in a dark place until the leaves start. If preferred they, also
daffodils and Dutch hyancinths dafooins and Dutch hyancinths, may be
grown in earth; many think they make stronger growth in that way. The chief element of success with either
of the latter,-daffodils and hyacinths, of the latter,-daffodils and hyacinths,
as well as tulips, is to keep them in the
der dark until root-growth is thoroughly developed, then bring gradually to the
light and to greater warmth. It hurried light and to greater warmth. If hurried
they will make spindly growth and choke in the bud. Six to eight weeks are
usually required to perfect the usually
growth

She-"And how is your bachelor
friend?".
Priend?"
He-"When I saw him last he was
mending very slowly," him last he was
She "Indeed ! I didn't know he'd
been ill."
He -"He hasn't been-he was
fresh buttons on

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## POMETRY CEANGO <br> a 18











## 








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 $\xrightarrow{\text { Prei Co. }}$







Holstel̆ns and Tamworths



## News of the Week.

Hon. F. . D. Monk has reat
ister of Public Works. works
 war againat the Turke.

Foreign.

 of the thot frind at Alim lact week.

Turkey and the Palkan States formally


 A revolt againat Proesident Madero, 1 led
by Conaral
Eellit Dinat
 Verara
renesls.
Marcon's right eve, which was injured In an automoblo accident in thaly

A doverment bill has been brought un
 tionail stook erment supervision

Peace between Italy and Turkey
been condwed been con luded by
ouchy, Swituerland

Tuberculin Test Waived on Canadian Cattle for the U.S. Exhilbition.
Chief of the Burteau of Animal Industry by, Regulation 89 of the Bureau of Ani-
mal Industry, Order 180, "Regulations mal Industry, Order 180 , "Regulations
for the inspection and quarantine of for the inspection and quarantine of
horses, cattle, sheep, swine, and other
animals imported animals imported into the United
States," the requirements of Regulation
3s 38, of Order 180 , are hereby waived for
cattle to be imported cattle to be imported from Canada tema-
porarily for exhibition purposes porarily for exhibition purposes at the
Interntional Live-stock Exposition, to be
held at Chicago, Ill., from November 30 held at Chicago, III., from November 30
to December 7,1912 . to December 7, 1912.
The provisions of said Regulation 39
shall be strictly applied to the covered by this order. Regulation 39
reads ns follows. reads as follows:
Regulation 39.-The Chief of the Bureau
of Anizal Industry of Anizal Industry may, however, by
writen order, waive the foregoing
tuberculin - test requirement for cattl tuberculin - test requirement for cattle
which are to be imported temporarily
for exhibition which are to be imported temporarily
for exhibition purposes, provided such
cattle are accompanied hy a satisfct or exhibition purposes, provided such
cattle are accompanied by a satisfactory
certificate of tuberculin-test by a veteri narian in the employ of and recelving a
salary from the Canadian Government made not more than six months preve
ously, and an affidavit by the owner
importer importer stating that the said certificate
of tulereculin-test reters to the cattle in
question. Any such cattle which an
 at the crose of the exhitition. to Caneade
partment The De partment must be notified of any Cana-
dian catle which will remain in the
United states, not tested as required by Regulation 38, and the tuljerculin- test
will be applied to thenn by an inspector
of this Derartment before shipment to destination. All cattle, sheep, and
swine, intended for exhibition purposes
must be shipled direty tion grounds, and must not be unloaded Chice of the Bureau of Animal Industry A fellow can keep up his own batting
average and make the world a little
more cheerful hy laying down an occa-
sional sacrifice hit.

## To Prevent Chapped Slin



- nse warm water and Baby's Own Soap.

The warm water opens the pores of the skin and the minute particles of pure refined vegetable oils which form the creamy, fragrant lather of Baby's Own Soap are absorbed into the skin, keeping it soft, healthy, and preventing cracks and chaps.
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## Good Schools !

 THE SPICE OF LIFE, derer, "back with the tortune I I said would make, and ready to pay themortgage off the farm '" "Ef that ain't hard luck!" exclaimed
the father. "As times are goin' now that mortgage ain't botherin' nobody.
I'd a heap ruther r'd a heap ruther have seen you broke
an' ready to do regular work for
wages., Elirott Business College,

All our instructors are experienced. The
courses are up-to-date and we do mor
for for our graduates than do other similar
schools. You may enter Write either college for a free catalogue. GOSSIP.
At the tender age of three, masculine
conceit had griped that small boy witb
a relentless clutch. He had kissed a
little girl of three. little girl of three, and she was rubbing
her lips viged
the that again,", said the bou's musn't do do
"She dother hard she is trying to tub your see how
"Oh, no she ain't," said the rubbin' it in ain't," said the boy. "She"s
A certain man who had been invited to
speak at a political mater
as the verys a gorgeous creation. It dream, twin brother to the Chanticler aghtmare. She sat in the second row
of the stalls. "Pardon me, madam,"
maid the man ehind said the man behind her, "I cannot see
the stage." She answere "use me," continued the miserable "Ex"will you kindly remave your hat?", The Madam," declerth stuck to its perch. Wre sternly, "if you do not take off A witness in a railroad case at Fort
Worth, asked to tell in hion how the accident happened, said: way
"'Well. Ole Well, ole and I was walking down the
track, and I heard a whistlo, and I got
off the track, and the train wen got and I got back on the track, and I
didn't see ole; but I walked along pretty soon I seen Ole's hat, and I walked on, and seen one of Ole's legs
and then I seen one of Ole's arms,
then another leg then another leg, and then over one side Ole's head, and I says, 'My God, some
thing muster happen to Ole ।',

Uncle Daniel Dewberry wandered around the big department store, idly watching
the scintillating colors of the electrie "Well, sir," said the clerk suavely, "I want a toothbrush," began Uncle
Daniel, and then, before Daniel, and then, before he could say
any more, the clerk was tumbling down
boxes like circus tents at a one-night stand.
"Yes, sir; you want the latest Parisian
mportation with the removel
$\qquad$
$\qquad$"Will you please -"
"Oh, for the baby, eh ? Well, here's
a peach, the 'baby grat.
a peach, the 'baby grand.' Well, here's
Uncle Daniel brought his horny
Uist
$\qquad$
$\qquad$



## REBECCA OF SUNTMYBROOK

 FARM.By Kate Douglas Wiggln.
[Serial rights secured from Houghton
Mimin Publishing Company, New Mimin Publishing Company, New
Yorks
chapter in.
Rebecca's Relations.
They had been called the Sawyer girls when Miranda at eighteen, Jane at iwelve and Aurelia at eight participated in the various activities or vilage ind and when Riverboro fell into a hable falling out of it, at any rate in the same century. So although Miranda and Jane century. So although Miranda and Jane
were between fifty and sixty at the time this story opens, Riverboro still called this story opens, Riverboro still called
them the Sawyer girls. They were spinsters; but Aurelia, the youngest, had made what she called a romantic marriage, and what her sisters termed a mighty poor speculation. "There's
worse things than bein' old maids," they said : whether they thought so is quite another matter
The element of romance in Aurelia's marriage existed chiefly in the fact that Mr. L. D. M. Randall had a soul above farming or trading and was a votary of the Muses. He taught the weekly sing-ing-school (then a feature of village litel in half a dozen neighboring towns; he played the violin and "called orr" a dances,- or evoked rich harmonies from church melodeons on Sundays. He taught certain uncouth lads, when they were of an age to enter society, the inof the schottische and mazurka, and he was a marked figure in all social assemblies, though conspicuously absent from town-meetings and the purely mascuine bridge.
His hair was a little longer, his hands a little whiter, his shoes a little thinner. his manner a triffe more polished, than only department of mates ; indeed, the to shine was the making of sufficient money to live upon. Luckily, he had no responsibilities; his father and his twin brother had died when he was yet a boy and his mother, whose only noteworthy achievement had been the naming of her twin sons Marquis de Lafayette and Lorenzo de Medici Randall, had supported herself and educated her child by making coats up to the very day of her death. She was wont to sey plaintlively,
"I'm afraid the faculties was too much divided up between my twins. L. D. M.
is awful talented, but I guess M. D. L. 'would ' $a$ ', ben the practical one it he'd "L.D.M. was practical enough to get
the richest girl in the village," repliod Mrs. Robinson. again ; if the twins could ' $a$ ' married Aurelia Sawyer 't would ' $a$ ' meen all right. L.D.M. was talented 'nough to get Reely's monoy, but M.D.L. would ',
ben practical 'nough to have kep' Ic.'" Aurelia's share of the modest Sawyer property had been put into one thing
after another by the handsome and luckless Lorenzo de Medici. He had a grace-
ful and poetic way of making an mat ful and poetic way of making an invent
ment for each new son and daughter that blessed their union. "A birthday present for our child, Aurelia," he would say,
-"'a little nest-egg for the future"' -"a little nest-egg for the future"; but Aurelia once remarked in a moment of
bitterness that the hen never lived that could sit on those eggs and hatch anyChing out or them. their hands of Aurelia when she married
Lorenzo de Medici Randall. Having exhausted the resources of Riverboro and
its immediate vicinity, the unfortunate its immediate vicinity, the unfortunate
couple had moved on and on in a stead-
ily decreasing scale ily decreasing scale of prosperity until
they had reached Temperance, where they.
had sattled down and invited eate to do

For llome Bread Makers
Thousands of letters, from satisfied user of White Swan Yeast Cakes, prove that it is good reliable yeas If your grocer doesn't sell them, advise WHITE SWAN SPICES \& CEREALS, Toronto mperted Toronto and ask for free sample.


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 and

Canadle

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|  |  |

 instruments to play. It is also one of the most fascinating and
entertaining. IThe solid ebony finger-board of the Echo Mandolin is very I The rosewood back and each note as perfect as a piono. The rosewood back and spruce top are of the same quality of colored woods and ivoroid binding give it a moselicate inlay appearance.
IT A courre of instruction in given froe if deaired
IVend for Catalogue 3. of "Muical Inotruments for the Home," which
ECHO MANDOLINS YAREN YIOLNS ECHO GUTTARS
THE WILLIAMS ${ }^{85}$ Sonso
R.S. Wom inmerocemin LMITED. 143 YONGE STREET - TORONTO
500 Eloventh Ave. E. $\quad 59$ St Peter Street $\quad 421$ MeDerrates

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"Kline"
Fanning Mill
on all kinds of grain. Once you see the "Kline" in operation, no other fanning mill utely unequalled for is absoling wild oats, chess, light and ing wild oats, chess, light and
small grains, smutt and seeds.

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year by applying Sydne BASG sLact
BASIC SLAG
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Alex. E. Wark, Wanstead, Ont., Saws Manager for Ontario No other fanning mill. Write for further pariculars, prices and terms.

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KLINE MANUFACturing co.
beeton - ontario

## 

 Aurelia two or throe
 mas, but retused to assist L.D.M. with
the regular expenses of his rapidly-grow-
ing ing tamily. His last investment, made shortly before the birth of Miranda
(named in a lively hope of favors which never came), was a small farm two miles
from Temperance herself, and so it proved $a$ home a t least,
and a place for the unsucessful Lorenzo and a place for the unsuccessful Lorenzo
to die and to be buried from, a duty
somewht somewhat too ton doried ferm, mand, many
thought, which he pertormed on the day of Mira's birrth.
It was in this happy-go-lucky house
hold that Rebecca had grown up. It was just an ordinary family; two or
three of the chidren the rest tpe chind tren were handsome and
ver, two thee of them rather clo ver, two industrious, and two common-
place and dull. Rebecca thd her acility, and had beemecta had her father': She "carried" the alto by ear, danced without being taught, played the melo-
deon without knowing the notes.
Her Loon without knowing the notes, Her
love of books she inherited chiefly her mother, who found it hard to swee or cook or sew when there was a nowel
in the house. Fortunately, books were have gone ragzed and hungry But. other torces had been at work in bears had been wrought unknown for Lorenzo de Medici was flabby and bone less; Rebeca was a thing of of iro ane and
spirit; he lacked energy and courage; Re
 at ife. Mrs. Randall and Hannah had
no sense of humor: Rebiccea possessed
no and showed it as soon as she could wallk
and talk. She had not been able, however, to
$\begin{aligned} & \text { borrow her parents virtues and those of } \\ & \text { other generous ancestors and escape all }\end{aligned}$
other the weaknesses in the celandar. secape all
not her had
not sister Hannah's patience
sir

 or woses. not, But whatever else there was
dalls's farm. The whitreedom at Ran-
dhe children grew Tought, ate What children nrew, worked,
could; loved one and sept where they ents pretty well, but with no ther popical-
passion; and educated themselves for nine months of the year, each one in in his own
way.
as and who oculd onty of the the method Hannah,
forcess applied from ween developed by



tion when she was born; they set in mo
daily daily spur, but was born; they needed no
cord-towards what no their own ac
of noll exhibition of herself: The fielld, for the the
painfully of her instinct the paindury simall, and the only use she wad
made of it as yet was to leave she
of the

Quick Work Washes Big Tubful in 5 or 6 Minutes
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suin It from side o so side almost withouid
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Director of Golonization
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OCTOBER 24; 1
 ing the poultry, picicing up chipp, halling thought irregon nitle, and Auralia, nead

 Shat, being A A trinit carewortu in tace and fearp in manerer; but abo was a selt-con
 their tamily and particicipeta member diantages of and partitipato in all the to worla. It was soveral vosition in liranda and Jane had seen the cors silden
 Hin intervew, and itw was for this rasoon her company, Rebecea, on the other
handi, had dressad up the dog in
in brees younger cing ridreanen ready too for did the ho had held them under the pump nond
 bringing them to the tabale in tuanh moist and hideous stata of shininess that the
their mother was ashamed of ther
ner

 what I must portorece call by its own name, a spit -urr) directly on the conter
of her brow, an ornament which allowed to war a very short th she wa in ract, till Hannah was ahlo ot coll
her mother's attention to
tit when was sent into the next toom to tomome


 dressing, fully as effeotive if not as start. $1 y$ the reants of nhe nutices were sole


 1y spinsters of the brick house; tor tit sada that Hannah could not possibly bo beco


 (To bo continued)

## gossip.

herefords at ajction his saduertisad in this issue, thero win
 fown, ont,., thirty-seven Hereforard cattie
 females having been bred. Heite of the are A1 beef cattle, easily kept, and Herefords high pricess for broff. in these times d may do well to look Those interest isement and attend the up the adve

TRADE TOPICS Thace on manoline ongine fills an important


 by McKeough \& Trotter, Ltd., Chatham,
Ont. See the advertisement, and write
them
$\qquad$ Of value to horsemen is the old and
reliable veterinary remedy known as
Gombault's Caustic Balsam, which as Gombault's Caustic Balsam, which has
made itself popular as a cure for many
pt the ills to which horses are heir pt the ills to which horses are heir.
The stason in which horses are to be
turnem cut for the winter being near, tris renedy may be wisely and success-
fully used in the treatment of strains or
enlarerements causing lameness. See the
adveri arnent

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Union Stock Yards Poultry Breeders'. Association Union Stock Yards, TORONTO
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GRADE PURE-BRED CATTLE, HOGS, SHEEP, POULTRY Entries close November 30th, 1912

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KING SEGIS WALKER
The highest pedigreed sire in Canada. Average record of dam, gr. dams, and g .
gr. dams: Butter, 28.36 lbs ; milk, 544.42 lbs ; fat, 4.24 lbs . Fee for service This sire's get are 8o per cent. females. For sale :'A grandson of King Segis and Pontiac Pet, record 37.67 fbs . butter and the : A whose dam is a daughter of Pontiac Korndyke, and
just completed a record of 722 lbs . in 7 days. An
OSHAR


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W $\mathrm{E}^{\text {ERE all }}$ making loking for a moneyone for you ripht in in your here

You can get into this steady, profitabe ensines and make it pay righ
and
and

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Hundreds of men have earned back You can make $\$ 15$ to $\$ 18$ a year 10 months a year. The work comes to you-you don't have to go after it." Ever wants machine made ditches. me build
Let us tell you the facts about, the profits to be made with a Buckeye
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\begin{aligned}
& \text { Liberal classification } \\
& \text { Increased ' prizes. }
\end{aligned}
$$

Entries close November 23rd, 1912. Reduced freight and passenger rate For Prize List apply to
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The "Heat-Where-You-Want-It" Idea
Sometimes a range is judged by its fancy trimmings-by the size of its firebox-by the number of holes, or the size of its oven-or by its general appearance.
All these things are important. But the most important for you What return in actual service will you get from the range itself and from every ounce of fuel you put into it? Behind "Happy Thought" Ranges, $\begin{aligned} & \text { grilling, broiling, stewing and all } \\ & \text { you must remember, there is the ex- } \\ & \text { other forms of cooking }\end{aligned}$ $\begin{array}{ll}\text { you must remember, there is the ex- } & \text { other forms of cooking. } \\ \text { perience of over twenty-five years-a } & \text { A sane design }\end{array}$ quarter of a century of sustained effort at a sane design proportions this range
so that you have the heat at the holes to produce the best. The aim of the makers has been
from the first to produce a stove that will give the largest possible return in perfect service.
So you find to-day that the " H So you find to-day that the "Happy Thking Luarter Million Canadian women who HAPPY THOLTAH RANGES

THE WILLIAM BUCK STOVE CO, LIMITED, BRANTFORD, ON
 3. Give the colt good clean hay and
rolled oats. PUMPING AND POWER QUERIES 1. Am sinking a well, and would like
to have your or your subscribers ion on the best pumping power. Is a two-horse - power engine able to pump
water from a $100-\mathrm{ft}$. well into a supply
tank tank 8 feet above the ground level?
2. What work can a two-horse engine do in the way of cream separating, cut-
ting straw with a small roots, etc.? a small cutter, pulping 3. Will a gasoline engine of that
power run satisfactorily in cold winter weather ?
4. Is th

$$
\begin{aligned}
& \text { wearer } \\
& \text { 4. Is the up-keep of a gasoline engine } \\
& \text { very great ? } \\
& \text { 5. Is a windmill }
\end{aligned}
$$ 5. Is a windmill good pumping power?

INQUISITIVE Ans.-1. A two-horse engine would
pump the water all right. pump the water all right.
2. It would also run a separatof or
a straw-cutter, would and could be used for sawing the rood, and
such work fanning mill, emery, or grindstone, orer the
3. It should, if pro 4. Not when good care is given.. ot
course, the cost of operation upon the work done. operation depends
5. Windmills, on account of there
ng very ing very little cost in their operation
are considered very satisfactory for
pum TILE IN SAND-STORING CORN In reacing your valuable paper, ${ }^{\circ}$
page 1758, of issue of October 10, 1912
your explenation the London Asylum Farm, you speak
two fifty-acre field two fifty-acre fields having been re
claimed, one especialy, being light sand
and of having underdrat and of having underdrained
what I want to know is:
sandy land, be drain
manner? will
met. inner? Will the sand in a profitable
in the tile, thereby filling them lodg
have sixteen bave sixteen acreby fhilling them? W Wheds
badly, and ditches will net dralnin right-it will not warm it do the work
2. I have standing in properly. of sweet and field corn, which one acr
pretty hard pretty hard with the frost before cut-
ting. The kernel seems thit
The milk stage yet. Will it harden, an
what is best method the spoiling during coming winter? My bar
is pretty warm is pretty warm.
and it slated, My bar
and clapboarded.
feed. Ans.-1. In the field referred to in the
article, the sandy portions were the article, the sandy portions were high and
dry, and did not need underdrainage. I
wns the Was the lower portions, which were
wlack muck, which were underdrained
handy land which is cold und and provided the dra by underdrainage In and the fall is good, they will work 2. We cannot say whether or not it
will ripell up. It is not likely the will ripen up, It is not likely not it
will get sutficiently matued it
phe


Home knitting is quick and easy With any one of our 6 Family Knitting wear, Caps, Gloves, Mittens, etc.Plain or Ribbed - can be knitted ten
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CTOBER 24, 1912
questions and answers. Miscellaneous.

OVERWORKED TELIEPHONE Are fifteen telephones Are adeen celephones not all that are
allowed on one line? We have twents one here, and it is too many on one

 Ans.-We are not aware of any suc general restriction

SOWING ONION SEED. Would you advise sowing black onion
seed in the tall? seed in the tall? If so, please state the time to sow, and the way to fit up require much hoeing ? Also, do onions Ans.-Many growers do not believe in planting onion seed in the fall, as the such as retain no moisturo light soils, such as retain no moisture during the winter season. Light soils can always
be worked early in the spring, and wet soils are late, so little is gained weven when it is sown on the light land
There is more
 land well this fall, and get it all ready to put in the seed the first thing in the
spring. The onion croo require spring. The onion crop requires a large
amount of labor, including hoeing. STIFLE JOINTS SWELL When my sucking foal was about two
months of age, there appeared on its stifle Soint two very large puffs. They
do not hinder it but the do not seem to be disappearing, any Would you advise sweating them out. or
will they dise will they disappear if left alone? Ans.-It is altogether likely that the
swellings are the result location of the resella. of partial dis-
let a blister made of $1 \frac{1}{1}$ drams each of biniodide of ounces of vaseline. Clip mixed with 2 the parts: Tie so he cannot bite them.
Rub well with the blister on the front and inside of the joint once daily for two days. On the third day wash off
and apply sweet oil. Let loose now in a box stall, and ond daily. Keep the
colt quiet, and blister every colt quiet, and blister every four weeks
for a few months. A Million Dollars Saved by Creosoting Cross-Ties. Press Bulletin of the Dominion Forestry The annual replacement of cross-ties in Canadian railway lines is about 10,000 ,-
oon, according to statistics compiled by the Ferestry Branch of the Departmen tie, i. e., interior. The average life of a to seventeen years, if proper preservative Creatment were adopted, and an annual
saving of 350 million feet, ure, of timber, could be effected. This of the very largest mills in the country.
While the initions cut on one Would bring the cost per tie from tromoting
98 .to
93 cents it nually. Since 1910, two timber-treating plants
have been established have been established, treating, in 1911,
206,209 ties, or 1.5 per cent. of the total cut.
The number of ties purchased in the Dominion in of ties purchased in the
increase
in Increase of $4,469,808$, or 48.5 per cent.
over 1910 .
The rapid development of The rapid development of railways in
thel Western Provinces is largely responsible for this increase.
Eighteen kinds of wood were used Jackhteen kinds with 40 of wood were used,
with with 19 per cent.; Douglas fir (used to
a very great extent in new elcctric a very great extent in new electrice lines
in British Columbia), with 14 per cent., and hemlock, with 12 per cent., were the
leaders. A remarkable chinge . of cellar, in demarkable change is the the


## BESSER CONCRETE MACHINERY

 Continuous MixerWe manufacture: Power Cement Drain and Sewer Tile Machines; Hand Cement Drain and Sewer Tile Moulds; Power Cement Brick Machines; Hand Cement Fiock Niachines; Cars and Track for Concrete Plants; Power Tamp Machines for Blocks and Tiles; also Wiiddmills, Towers and Tanks. Write for catalogues.
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S
ME people declare that farmers will not answer advertisements-that both stock-raisers and farmers are indifferent to their own interests. We think otherwise. As a matter of fact, we know that farmers and stockmen, alike, are always ready to investigate any proposition which is worth their serious consideration. Here's proof:

A year ago we made the statement that the systematic use of

## Caldwell's Molasses Meal

would increase the value and the earning capacity of any
farmer's stock. Both farmers and stockmen promptly asked to be shown. We gave reasons for the statement, and hundred

Now we want one thousand farmers to write direct to us and ask for reasonable proofs of the claims we make throughout our advertising for

## CALDWELLOS MEAL

Here are some of these claims worded as definitely as we know how. Consider them fairly and squarely, as they affect your business as farmer and stockman

Caldwell C SMolases Meal contains $84 \%$
of Pure Cane
pecial variet Molaseses and $16 \%$ of special variety of edible moss known to
bave digestive and antiseptic action the intestines- the process of manufac twure makes the Meal absolutely uni-
form in Corm in quality.
Caldwell's Molasses Meal has enormous feeding value, and possesses wonderful therapeutic, proportiess. It wor-
systematic use keeps animats systematic use keeps animals in perfect
health and free from worms and intestinal parasites. Besides, it is the only safe
and convenient form in which molasses Caldwell's Molasses Meall'costs nothing Caldwell's Molasses Meal'costs nothing
touse as it takes the place of an equal
quantity of cereal
 1)TCET

## Thl nonstis

Masnefp
Cumbites


> The Caldwell Feed Co., Dundas,

> Ontario

When writing advertlsers please mention The Farmer's Advocate


Woodward Water Basins Provide Plenty of Water at anper tempatarer, ndid in

 Disaece canong sprad if pou inetall





HE ONTARIO WIND ENGINE AND PUMP CO
Toronto Winnipeg Cal

## TELEPHONES

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QUESTIOMS AND ANSWERS. Miscellaneous.
pacer was at a tall fair, and saw a pacer awarded frrst prize in the carriage
class.
Is
Iudging that allowable, or is it good 2. Also, is it good form to allow a pur-bred C
pose class ? Ans. -1 . According to the classification arrived at by the United States
Department of Agriculture, Department of Agricuture, and the Am
erican Trotting-horse Breders, a horse of mixed gait, a paddler, or a pacer,
should be severely discounted by the Judge. Action is very important in
placing placing carriage orrses, and if there
a horse in the ring which shows good action, and is a reasonably good type
of horse, he should win ober of horse, he should win over a pacer or
mixed-gaited horse. 2. This depends u horse. There is no rule governing the the
breeting of the breeding of what constitutes a general-
purpose purpose hunse, has too much weighte
dale usually bone and body, and too much feathering on the legs to win in a good class of
general-purposes horses. $A$ freak Clydes
 TO KEEP SILAGE FROM FREEZWeathe ING. attactued pormitting, a proviso to be bearlo very farm undertak-
ing this seasono, we hope to ing this season, wo hope to see our silos
filled in a few days from the time write. The corn crop has far surpassed our expectation, and it has been difificult to harvest. Since other crops were de-
preciated in value hy the wet preciated in value by the wet, ye shall
have no silage to spare. Last fear, and in other seasons, in the case of both concrete and wood silos in this or bot rict,
there has been much trouble there has been much trouble experithlyd
and no little waste through freezing to and no little waste through freezing to
the walls and spoiling. Some practical suggestions through. "The Farmer's Ad-
ronel vocato" on this point in an early issue
would be timely, and worth a good deal. would be timely, and worth a good deal.
particularly to those using silos for the particulariy to those using silos for the
frrst time, of whom there must be thousands the country over.
Ans.-withoust
w.
s . Ans-Without going into the questions
of location of the silo and insulation of
the the walls-पuestions which wuold not be
especially practical to discuss now thet especially practical to discuss now that
the 1912 silo-building season is over, wo may say that with any given silo, avoid-
ance of trouble from freazing very largely due to the care with which
the sil the silage is fed. The important point
is to keep the is to keep the silage dug down a fow
inches lower around the will inches lower around the walls than in
the center, being at the same time ful to keep the surface even. Some who
formen observed these precautions had scarcely
any frozen silage adhering to the any severe weather experienced last winter. Others who let a ring form, and gradu-
ally accumulate, soon found the aroa or all a ccumulate, soon found the aroa o
the feding surface reduced two or three
teet Teet in diameter, and thickening as they
weant down. We had such an experience
tor dow Yor a time at Weldwood, ow experience to the
herdsman failing to act fully upon our herdsman failing to act fully upon our
instructions to keep the eddes
Consequently, a ring a toot thick owe

 this frozen silage, prying it or the south
portion of the wall
 time, when it would usually be pretty
well thawed out. In this way he uti-
the
 ble in keeping the wall clear as he went
down $\begin{aligned} & \text { There is } \\ & \text { adiference of opinion as to the } \\ & \text { advantage of a roof in cuarding a against }\end{aligned}$


anso audut to the canpacity of the silo at
fillingy-time, and is a convenience in rais-


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every spring and using out-
of-date boiling contrivane
of-date boiling contrivances
that make poor syrup. In that mak
vest in a
"CHAMPION"

$$
\begin{aligned}
& \text { APORATOR. } \\
& \text { little comfort }
\end{aligned}
$$

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bring you the syrup that will
bring you the best returns. Made in 22 different sizes, suitable for large and
small size sugar bushes. Write to-day
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 ROBT. BEITH, Bowmanville, Ont. ,

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 Sity Weigher and Gauger. WHY he has faith D. CAMERON Montral, June 10, 1912.





 make tron comise GHEMICAL COMPANY
 Drugzisto everowhere sell Sove thit. Horse with

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YOUR MOR


FOALING INSURANCE, Comanal prowium will occura palicy in our


prosprctuś frie on demand. General Anlmals Insurance Company Hoen orres: 7h 3t sia

Mo. 108 York street, ottown
Tomato Acemy J. $A$

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QUESTIONS AND ANSWERS. .Miscellaneous.

KILLING WEEDS
Is salt and lime the best remedy What proportion infested with weèds
When, and how you make it When, and how applied? If yau kno
of any other remedy, kindly yto any other remedy, kindly state same.
J. D. M. Ans.-The best remedy for weeds i
cultivation. Plow or spade the garden
and during the and during the growing season use the
hoe frequently. Salt applied to roots of weeds in sufficient quantity will
kill them, but if appled garden in sufficient quantity to kee
down down the weeds, it would likely kill all
vegetation. Weeds are usually the
hardiest BOTS-BOILING FEED-FLAX
SEED FOR HORSES. He is greatly troubled with them bots 2. Is boiled grain, a mixture of oat day, especially if the horse is orouble 3. Is boiled flaxseed good for horses How mate, and how otem? W. B. Ans. 1 . There is no drug known tha
will remove bots, and it is not nece sary to remove them, as they do no
harm, and will pass ofir in due time withharm, and will pass off in due time with
out treatment. 2. The practice of boiling grain for horses is not so common now as it was
at one time. A little boiled feed is sometimes beneficial for colts, brood
mares, or stallions, and one feed a is sometimes fed to horses being fattened for sale or exhibition purposes. Feed a
little bran for the constipation, and 'a 3. roots. in the winter. It may be fed ground or boiled. A good handful fed with
oats twice a day, would be sufficient. TELEGONY-RICE MEAL 1. If a pure-bred Holstein cow be bred she drops a calf, and is again 'bred to e Holstein be bull, can her calf ure-bred Holstein?
2. If a pure-bred bull of any breed have any influence anter breed, does calves of his get, and are they eligible
Cor registry) 3. What is your opinion of feedin rice meal to dairy cattle? Is it of any value as a milk-producer, or is it a fat-
producer ?
L. H. B. Ans.-1 and 2. Telegony, or the infi ence of a former service upon future of
spring, is now discredited, and calve provided they conform to other requir ments of the registry association, are no
rejected because their dams rejected because their dams were
served by a bull of another breed serve Rice by-products, especially and bran, are said to be frequently distasteful to animals, because the oil CHICORY-PULLETS. We have in this section a blue-blos
somed weed we call chicory. It has somed weed we call chicory. It has go spreading very fast. We have cut it
and it and it seems to stool out thicker an
stronger than ever, and it is impossible to pull it out by the roots. Have yo
any method we could go by to get of it ?
Could you inform me where I could ge pure-bred R.C. R. I. Red pullets? Ans.-1. Chicory is a perennial weed
with a deep, long, thick root. I spreads from seeds, and from shoots,
which develop at the crown of the roots It is a very common roadside weed in
some districts, and occasionally is found
growing in sod and cultivated fell some districts, and occasionally is found
growing in sod and cultivated fields. It
often becomes very troublesome in pasures. Where it has spread into the
felds, follow a short rotation elds, follow a short rotation of crops,
plow deeply, and cultivate well. Wher
here are only a few isolated plants present, cut them very closely (below the
crown, if possible), and apply satt to
the roote
Clean farming will check it, nd rid the land of it.
2. Only through 2. Only through our advertising col-
$\left\{\begin{array}{l}\text { One man less } \\ \text { to run this } \\ \text { Pul Powe and salffeed }\end{array}\right.$ Press?


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spondence invited from all interested parties. Prices right and terms to anit R.HAMILTON \& SUN,
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tain a high standarIMPORTED CLIDEADALEN tew choice young stallicns always on hand and for sale, Frequent importations main
tain a high standard. Prices and terms to suit. BARBER BROS. Gatimeau PL.Que., mear Ottawa.
ORMSBY GRANGE STOGK FARM, ORMSTOWN, P. QUE They were personally selected and well bought, and are offered along, with five good ones on thitlon,
home-bred and imported, and at very nd dear, besides. extedenses and verry reasonabie prices. Don't forget that they are becoming hand
good bree

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 | JAMES TORRANGE, MAREHAM, |
| :--- |
| Locust Hili, C. P.R. |

MT. VICTORIA STOCK FARM, Hudson Heights, P. Q. e have some very choice young stock for sale, both seeres. Clydendales and Hacknoys
from champion sires and well bred damme, at reasonable prices.
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E, Watson, Mer


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 Oct. 7th to Nov. 9th Oct. 17th to Nov. 9th to ail stations, Sudbury to the Soo. Havelock to
Sharrot Lhike dold woter to Sudbury, and
on the Lindsay \& Bobcaygeon Branch Return Limit December 12th, 1912


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If ycu are trqubled with stumps, give tor" a trial. It has now been in use in the greater the past three years with the greatest success. By its assistance,
two men will do the work of thre men and a horse. It can also be used
or felling trees.
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Aberdeen-Ansus A Afow bulla, to eoll yot walter Hofore baying. Drumbo Station, Washington, Ont Aberdeen-Angus or show. Form and season my offering in young bulls ald herifre a
toppers every one. Showring form and huality an Fer from show winners. IT. I. R. and C. P. R. R. ADF'OOT,
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 Shorthorns - Nine bulls and a aumber oe Reluert Nichol \& Sons, Hasersville Ont Clover Dell Shorthorns
 Station, C.' $P$. MENTION "FARMER'S ADVOCATE."

GOSSIP.
Registered Shropshire Down shearling from imported and home-bred ewes, bred ewes from one to six years old, are ad vertised for sale at moderate prices John Hayward, Eastwood, Orford Co

## Ont.

Geo. G. Gould, of Edgar's Mills, Ont writes under the date of October 10th Toronto Exhibition: "In your report of Toronto Exhibition, in class 248 other distinct breeds-you gave credit for female sweepstakes to Mac Campbell,
Northwood, while this prize me , on an aged sow, "Dorothy $=2100=$ "

Gerald Powell, commission agent and interpreter, Nogent-le-Rotrou, France, who makes selections and ships to order, Percheron, Belgian, and French Coach stallions, mares and fillies, expects to Guelph, December 9 Winter Fair at hopes to meet old and new customers Mr. Powell has made many large shipments to Canada, and has greatly helped many of our importers in making their selections. Among his recent shipments to Canada were choice consignments to W. W. Hunter, Olds, Alta., and T. Berry, Hensall, Ont.

Dr. Duncan McEachran, Ormstown,
Que., writes :
I arrived October 6th, after a most enjoyable visi sale of Clydesdales at Perth, the great over a hundred and fifty pure-bred fillies
I selected Canadian breeders of the ideal sort for form and action. .They arrived form and action. They arrived, in the
pink of condition. Eleven of them
super supposed to be in foal to choice sires
most most of them are undoubtedly in foal.
This lot were selected considering the scarcity of quality, and colors, on which I lay considerable
stress, having stress, having no use for piebalds out-
side of a circus, or an
Ind side of a circus, or an Indian reserrve,
I obtained my selection at reasonable
prices, which will prices, which my willetion at enable me reasonable
them at figures well
offer them at figures well within the offer
of Canadian breeders of Canadian breeders. Besides these,
bought a few in Lanarkshive bought a few in Lanarkshire, one of
them, Royal Bloom, a ten-year-old the best pattern of a Cly-year-old mare,
seen. She is seen. She is by Montrave Ronald, out
of a Flashwood dam. Her fill
by Hiawher of a Flashwood dam. Her filly foal is
by Hiawatha, and she is safe in
the same celebrat by Hiawatha, and she is safe in foal
the same celebrated sire. She is
for sale. Another for sale. Another hish-class mare, Beg
Darling (30110), hy
B Bonni e Bessite Marmion, out of
Northesk.
She Northesk. She is a 17 -hand my Lord
weighing 1,700 lbs., perter action, and of a brown color. in form and
will be retained as also will be retained as a brood mare. Any
one wanting real good brood mare,
suit their tastes in then suit their tastes in this lot, marich, with
others on hand, number 25 , whit and three-year-old fillies to select from.

TRADE TOPIC
best-paying investmants on any of the Separators skim closer than any kept.
method, and this is other considered when cream and butter are so
high in price. The value of thaving
frest Aresh, warm, sweet skim milk for that
calves, can scarcely be estimated the
course, there
 Thase are points which than others,
Tubular Sharparator manufacturers
Seplot to be outstanding manufacturers claim
rators. if in in need of their sepa-
a separator, see their advertisement in a separator, see
and write them for free catame catogue "Doesn't your choir sing at the prison
any. more "No: seceral of the prisoners objecte
on the groum" that it wasn't included
heir sentennes ",


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 KYLE BROS. Fletcher's Shorthorns Purr herdof

 GBo. D. PLletcher, R.R. No. 2, Eran, Ont Shorthorns for Sale-Threetrons:boned
 STEWART M. GRAHAM, Port Perry, Ont.

## QUESTIONS AND ANSWERS.

 Miscelianeous.BOARD AND WAGES DURING Being sick for two week ong ang wages or board ? Ans.-It farm laborer.
 working by the year, or for a any. torm of
months, having board regularly provided
tor morths, having board regularly provided
tor you vant ont or the remuneration, you
are entitiled to bothe providing, of course, boord and wages
was that ill
your was not attributable to culpable neglect
on your own part. bloody milk
give bloody milik yin two coow started to
can be done for her ?
cuarters. What
 rupture of some of the seneally blood ves-
sels of of the uadder, usually induced by
congenital or inherited


 a pint of raw linseed oil. If this does
not effect a cure, try giving three drams
of nitrate of peter a pitrate of potash three times daily in
water.

PASTURING RAPE.
the sowed a field of rape this summer,

has prot $\begin{aligned} & \text { ever sowed, but find that it } \\ & \text { provided more pastura the }\end{aligned}$ | has provided $\begin{array}{l}\text { more } \\ \text { sheeep will eat. } \\ \text { pouture the that it it } \\ \text { Wo to pastury }\end{array}$ |
| :--- | chatle or pigs on it? it do to pastur

conser Ans.-It is all right for pigs, and all
for cattle, providing you take preca tions to guard againg you take preca
turning on at orst turning on at arrst for only ang sour
a time in the middle of the day
the the rape is dry, and gradually yay whenen
ing the time, 'also allowing the cattle
ith the run of a grass fillowing or the cattle
some dry fodder. Swine will
soces on it, but the precautions not montion
apply to sheep as well as to contion LOSS OF CUD
What shall I do with a cow that has
lost her cud? Is there any way placing it
 the cause of diseasen is not a disease, no
symptor due to some primary merely Shorthorns, Cotswolds', Berkshires For ele: syearing bulls, 12 bull colves


 many people seem to have, that idea has nothing of the kind her mouth. She up each time when she cominences comes
nation. At other the nation. At other times there is no cud
in the mouth. Giving a cow an ficial cud is uterly mistaken and futile,
Periodical rumination ess, which proceeds what normal proc health. Its prolonged absence is a
$\qquad$

## Veterinary

MALIGNANT TUMOR. For more than a year my colt has had
growth in its mouth. My veter harian has removed it three My veteriagain. Lately It it have been, applying
sulphuric acid to it, and this keps
sut
 Ans.-This is a malignant or cancerous
grow.h and a cure is very doubtul.
All that can be done is to dissect again. It all diseased to tissue con to ro re
moved, it may not reap noar, but as it is situated in such calppear, but as to to
the binity to
be impossint the jaw, it will probato
$\qquad$
$\qquad$


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c. PRIME CO., LMITES



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almost dead and hopeless 1 drenched him with two bottle of your "ANTI-COLIC"'; he made a fine end owict res covery. I obtained as good results as this one with any of your other preparations I used. Yours truly, O. Yelle.

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list of young and H. CARGILL \& SON, Propritors, Creill O JoHiN CLANCT, Managet


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Scotch Shorthorns Burlington Jct. sta., G. T. R. W. G. PETTIT \& sons, Freeman, Ont.
1861 Ipvine-Slde Shomthorne 1912

John Watt \& Son, Salem P. o., Ont. Elora statlon, G. T. and C. P. R.
SALEM SHORTHORNS




## UTILEBOY WIS SUOOELILTHEEI

 withDIARRHOEA
and VOMITING

## - 4 you are suddenly taken with Diar shoes, Dysentery, Colic, Cramps, or Pains ln the Stomach, Cholera Morbus, Sumner Complaint, or any Looseness of the Bowels, do not waste any time, but mmediately procure a bottle of Dr. Towler's Extract of Wild Strawberry, and it will cure you in no time. Mrs. H. L. Steadman, Pleasant River, N.S., writes: "A year ago this fall, my little boy was suddenly taken ill with diarrhoea and vomiting, and as our doctor is ten miles distant, it seemed as if I could not get help soon enough, but on going to the country store I purchased a country store I purchased a bottle of and after the first dose could notice an improvement, and the next day the child Tre better and regained health. Since that time I always keep it on hand." <br> Iasist on being given "Dr. Fowler's" when, you ask for it. Price 35 cents Manuffectured only by The T. Milburn

 Co., Limited, Toronto, Ont.Ayrshires of production, type and quality; I

R M. How ien. St. Louls sta., Que. L-d. 'phone. High-Class Ayrshires - If you are wantyoung bull out of a a-1b. a day and over cow-ired im
ported or Canalian-bred dam and sire, write me. emales all agee Prices are eass and sire, write me
D. A. MACFARLANE. Keloo,
"What's new in the news?" ""Terrible scandal at Oldport. It has leaked out
that Mrs. Wallaby - Wombat, the sucjety that Mrs. Wallaby - Wombat, the socijety
leader, exacts a percentage of her ser-
vants
". 'By the Sea' is a very pretty title Ror your peieture,", said the interested on-
looker. "But the sea is too green, and the waves are too flufy."." "That's so," replied the artist. "I'll paint some
branches and twigs into it and call it 'The Woodland Way.'
"Yes,", said Mr. Dustin Stax, "there
are $\$ 100,000$ jobs waiting for young men are $\$ 100,000$ jobs waiting for young men
who are competent to fill them."
"What requirements will "What requirements would you expect?" competent to establish and rua as big a
'business as mine on his own account "business as mine on his own account.
And then, of course, he wouldn't need
the job."

## She Had Such <br> Beautiful Hands that it was perfin that shat usd oritiol hand cienner, ton cremer, to re- move thiegrime of housework. Hand cleaners by any other by any oother namme do nat smell an swet  SNAP

QUESTIONS AND ANSWERS. Miscellaneous.

## FRONTAGE TAX

 Can a township levy a frontage tax on mhip property for a road that the town-shilding, which is a mile from my property, and also a roud I never
travel, and also never had any notice travel, and also never had any notice
of the proposed tax?
Oñtario. Ans.-Going upon the RATEPA ment of facts alone, we think that your
question should be answered in the question
negative.

MUSTY OATS
The oats in this locality are sprouted, matted together, and musty. Some
horses have been lost as a result of feeding them. What treatment would render them sale to feed ? Ans.-Dusty or musty food (especially
the latter) is very unsafe for horse It may cause serious digestive troubles or cause a nervous disease known as cerebro-spinal meningitis, which, in most cases, is fatal. The safer way is, of course, by bome means, to secure food
that at least is not musty. If this cannot be done, boiling the oats thor
oughly will destroy the germs and mak oughly will destroy the germs and make
the grain reasonably safe for food. It the grain reasonably safe for for for in small quantities at first
should
and the fation and the ration gradually increased a OVER-RUN SKIM-MILK TEST. 1. Will you tell $\begin{aligned} & \text { me, through your } \\ & \text { paper, whether } \\ & 248 \\ & \text { lbs. cream testing }\end{aligned}$ paper, whether 248 lbs. cream testing
4.2 will not make more than 167 lbs. butter ?
2. What should skim milk test? Ans.-1. There is not much wrong witn the yied not say there was fact, we wrong. It is a trifle below the aver age, but there is always a reasonable
margin of variation to be allowed for. margin of variation to be allowed for.
2. About .03 to .05 per cent; i. from three to five one-hundredths of one rator is supposed to be any good sepaming down to . 02 , or even lower, but
for everyday work the figures quoted are representative

TURKEYS DYING. I had a flock of 25 nice, healthy turcommenced to get wick and die. When they
I have well in the morning, Some of them seem and die in a few days. They have been feeding on green corn, so I thought per-
haps this might be haps this might be the cause of their
sickness. They appear to sickness. They appear to have slight
diarrhea, and are weak. What is the trouble; also treatment? I have given them small doses of castor oil, also a few drops of coal oil when the sickness
begins, but it does not effect Cogins, but does not effect a cure.
T. H. T. Ans.-With reference to this query,
would say 1 have had no experience with turkeys having access to green corn, as
we do not grow or feed any corn. I
think, hovever think, however, it would affect the tur
keys, and possibly is the cause of th trouble, although if fed old grain in the
form of whent or oats twice per don don't think they would eat enough, of
the green corn to produce such dis-
astrous results of grit or gravel, and feed hoiled rice
to cure drops of tincture of iron in the a drink
ing ing water. However, if the droppings
were fluid and a greenish-yellow in color, 1 would suspect the trouble was "black-
headd." and would then make an exami-
nintion of the liver of a dead bird to to
see if sume was enlarged and covered
wit vellowish- whito see if same was enlarged and covered
with yellowish-white spots of diseased
matter. If 1 found them, 1 would sell



## SPECO 1912: als TROUT Huntingd Ayms dams with imported pig: a so City Vie Coth dam an bull and cal JAME BE One

SPECIAL PRICES
 Ayrshires and Yorkshires-We now offer at barg tur bull calves dropped a



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Burliside Ayrshires Champions in the show rin
R. R. NESS, Howick ad dairy tests show ring ges and both sexes for sale

OCTOBER 24, 1912
CHE EP ALL MOPES OF EVER GETTING WELL Mry Jacob E. Herr, 111 Grange St.,

 be and after sleeping for five hicurs 1
mould wale with
severe pain
pain my would wake mith a severe pain in my breast. The. pain was so terible If
could ot lie in my beil, and usully had

 to atotit $10^{\circ} 0^{\text {coldock }}$ tha pater working up meentirly. The eame thing would hap
 but none of them did me any goocl. tried a great many patent medicices, but
 to try Milburn's Heart and Nerve Pillse
thought four boxes, and anter using the Thought four boxes and after wising the
 (u) alight The pains were gonc, and 1
 oil dealess, or mailed direct on recedipt of price by The
Toronto. Ont.

Don Jersey Herd
 D. Duncan, Don, Ont., Duncan Stn., C.N.R hone Long-distance Agincourt. BALAPHORENE A. J. C. C. JERSEYS Present offering: Cows from three to seven years
old; calveg from two to tee months old; either sex. JÓSEPH S ABROOK, HAVELOCK, ONT. H1DINTMEINS


 d visit the herded for py veemanticulars. Write SPRING BROOK HOLSTEINS and TAMWORTH SWINE


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 PRER illusitrated ditality, se ond for HOLSTEIN - FRIESIAN AASOCIATINN.
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Holsteins of Quality
 registered Hol teoin bairyman may own ${ }^{\text {Recordor }}$
Performance cow without investing a cent
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The Maples Holstein Herd offiers a splondid lot of bull calves, all sired by Prince
Aaggie Mechthilde and all from record of merittan Aaggie Mechthilde and all from record of merit dams. WALBURN RIVERS,
$\frac{\text { Folden. }}{\text { Maple Gerentarion }}$ Maple Grove Holsteins Herd he aded
Hengerveld, whose 17 near female King Lyon
 B. BOLLERT, R. R. No. 5, Tarleotock. Ont. Ridgedale Farm Holstelns-We have four


 low figure for quick sale. THOS. Bing AAtrains, at
8ON. WARKWORTH, ONT. Campbellford Sta. MENTION "FARMER'S ADVOCATE."

THE HARMEN'S ADVOCAIE
adyOcare

Mr A LIEN Note
built some wire fence and dead, sold and

the same. Mr. B pald pan note against
I think about halt part of the note
He claims hortgaged, and is up form sale
moved to Toronto, and wo can He has
answer to letters from wo
are are already four judgments placeca against
him in one of our lawyers' hands in
Barrie

1. Can Mr . $\mathrm{A}^{\prime} \mathrm{s}$ executors lift the fence
and gates from the posts ? 2. Can they get someone else to cash
the note, and let that parry 3. If they carnot take the fence and gates, what proceedings will they take
in order to get their 4. If someone buys the farm, can they 5. Plean pay for the fence?
Ontario. Ans. -1. The note does not appear
have been registored Ave ben registered against B'ster farm.
Assuming that it is not so registered or at all events that it was not until
after the mortgage men ecutors could mortigage mentioned, the ex-
fence and legally
remove the the mort gagee, and wout perridssion from
thesibly, also, from the execution creditors.
2. He would be in no better position
 the note, and having only sue B upo
and execution thereon obained judgment ine the amount by court process in the
usual way; and such shoucd in the Course, waspecially such should be their
con of the fact
that thay are trustoes

SKUNK-SKINS-BARBED - WIRE
SOHOOL FENCE.
the right to dig out and kill for then the isk skunks that are back in a slash
ing threequarters of a mile from the
house chickens or fowl? do not molest the 2. Can I claim hall or any of the
proceas trom same, skins being worth
$\$ 2$ apiece. 3. Has a school board the right to
 4. Ts it too damages, she having a enter action for
over her eye? The poevenent scar
oemity was broken down by a runaway horse,
but the barbed wire temained unbroken but the barbed wire remained unbroken.
She was running to escape being by was running to escape being ouught
bing inaymate, and made for the open-
ing the fonce $\operatorname{ing}$ in the fence, not
barbed wire
5 . 5. I have asked the truatees to remove the wire, sut the majority of them
refuse to do so, saying it is necessary to kep the woven-wire fence intact. What steps can be taken to have wire
removed? removed I inclose copy of by-laws
relating to line lences. which the Town-
ship Clerk sayy relating to line fences, which the Town-
shio Clork says would
According to the the so she case. According to the scliool law, the seation
is compelled to build and maintain the Ience around the school premises.
Ontario. There is no mention or barbed D. Fire in
the by-laws as beitive tin by-laws as being a legal fence, or be be
ing legal when stretched along over
woven-wite Nons.w.
Ans.-1. Yes.
3. It is decidedly objectionable; but
we doubt your being lejecty we doubt your being legally in a posi-
tion to restrain them, eavecially would seem to be the, casece, there is is no
local municipal of barbed wire in fencing. It it is possi-
ble, however, that there may be some
provision respet the provision respecting the matter in the
Regulations) respecting Public Schools;
and we would suggest your soind Inspector about it.
4 . Prest your seeing the 4. Probably not, but we doubt very
much your succeeding in such an action,
s.



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 daughters that have made 7 -day records above 30 theo only bull bull that ever sired 12 next bull to be a brother to such cows as Pontiac LadyPet (37.67), Pontiac Clothilde and eight others above 30 pounds? If ontiac Korndyke. I also have sons of Kau Ao, write me for price on a son of
olantha Gladi. E. H. DoLLR dur seior herd bull, Sir $A$ dmics



- 



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 T Our HOLSTEINS OF HIGHEST QUALITY
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Farnhain Oxfords and llampshires Prevent offering: A lot of frist-chess ram pion rimo Also an, number of y yaraing pion ramse Also an number of yearing
and oldee feries and enve lambs of both Hest

## Southdown Sheep


 Oot perfoct of mutton breeder
Oidery ROAT. MeEwen, Alloway Ledse sitoek Farm Cattlo and Sheop Labels T
 Cutivill wer


 W. A. BRYANT, Catrogorm, Ont. 20 Puge siborgimes


 Oxford Down Sheep, sher thormentic
 Ouality Oxford Downs wranere
 Sill SHROPSHIRES sed ema yartinge ema and nam; aloo eve amba alark, alton, ontario DORSET SHEEP
 Maplewood Oxfords sharning

Lame White Yorkshimes
 Bor in doiciod of为 brodian ontion imi H. J. Davis, Woodstock, Ont. $\frac{\text { C.P.R. Dad Q.T. R. }}{\text { SPINGBAN }}$

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 Large English Berkshires Pringesenot oferer
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 omem Gerorcitcmexio . AIRYIEM BERK

 Duroc Jersey Swine CATTLERSET

gossip.
 It is conside marke since the tamed Caledotoni terite Shorthorn cattle and hocks of Leicesester steep were founded by the tather of the
 sounty, the laterer of Tusearora, Brant County, Ont. The original 'oundation of Cheee noted herds was practically all of up to eightiten and nineteen hundred pounds weight, and capable of giving
more more milk than their calves would take, The complexion to six months of age. The complexion of the herds to-day is strongly intusad with the blood of thoos
great and prontable ancestorat which they show by their large and well - balk anced udders.
able
at late years a consitier able quantly of new blood has been
acided to to the herd acded to the herd, of Scotch broading
but in the ealection of thone thibes orection of now blood, only
traine noteed tor heary
mik







 breaing along milkthroducing Iinee, wad

 matrons. Following was the renowned
Joy
or
of Morning (imp.






 Now in ueo in younger end of the hercis.
 tilager. This is one ot the great bulls
ot the courty, beot trom the healu
has an has an immense deepth of the heels up,
lines, strong masculinity, beautiful lines, strong masculinity, and
like a glove.
he is a prities
high glover like a glove. He is a proven sire of a
high order, else he would never hat
been at the been at the head of the Douglas herds
In young In young bulls there are a big and
choice selection
Scoter Scotch-topped, ranging along about ten
and eleven months and sired by months of age, nearly all
Several of them missie bull, Royal Star Several of them are out Royal Star.
can more than make cows that can more than make good at the pail, and not one but has a dam that raises
her own calf and has a bit left
are the che are the kind of bulls the country
wanting wanting to-day, audls the country is individuality
is also up to a high standard them are show bulls that would take
heap of beating heap of beating. In fermales, for sale
are a big lot of heifers of any desire
age, bred frow the age, bred from the good-milking and
good-fleshed dams mention
Leicel good-fleshed dams mentioned above. The
Leicesters are also one of, if not the
oldest-established flocks in Canad many importations have added Ver
hlood, the lutest being the of this summer, when a the importation
rams and ewes were Strms and ewes were landed that of boatl
strengthened the existing flocks. Sin
the foundation there hat

[^0]If you have only $1 \frac{1}{2}$ to $31 / 2 \mathrm{~h}$.-p., use a

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