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## Vow.L. LONDON, ONTARIO, JANUARY 7, 1915. <br> No. 1163 <br> News to Most Women




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| 6 | 40 | 22 | $61 / 2,7,81 / 2,9,9$ |  | No. 9 top and bot |  |
| 7 | 40 | 22 | 5, 51/2, 7, 7, 71/2, $8 . \ldots$ | . 24 | 18-bar, 48-inch | \$0.43 |
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| 9 | 48 | 22 | 6, 6, 6, 6, 6, 6, 6, 6 | . 31 | 13-ft Gate |  |
| 9 | 48 | 161/2 | 6, 6, 6, 6, 6, 6, 6, 6 | . 33 | 13-ft. Gate |  |
| 9 | 52 | 22 | 4, 4, 5, 51/2, 7, 81/2, 9, 9 | . 31 | 14-ft. Gate |  |
| 9 | 52 | 161/2 | 4, 4, 5, 51/2, 7, 81/2, 9, 9 | . 33 | 25 lbs. Staples | . 75 |
| 10 | 48 | 161 | 3, 3, 3, 4, 51/2, 7, 7, 71/2, 8 | . 35 | 25 lbs . Wire | 0 |
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IOONDON, ONTARIO, JANYARY 7. 191:

EDITORIAL.































Do Not Plunge.
that 10-tay. A Ereat dian more visiting was done, the real old-fashioned variety of visiting where the whoie family finished up the chores

$\qquad$
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$\qquad$
$\qquad$

Improving Community Spirit

The Farmer's Advocate AND HOME MAGAZINE.
the leading agricultural journal in the


THE FARMER'S ADVOCA
解 andsompelyritil and indindependent of all cliques and partios, original engrav ings



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THE WLIIAM WELD COMPANY (Limited).

[^0]creases production enough to pay the salaries and
expenses of the speakers at these poorly attended meetings." Whether it is the speakers or the farmers themselves that are responsible for the small attendance at some meetings we are not prepared to say, probably both are a little to blame, but it is plain to the farmer that he gains nothing in the end by being fed on "pap," and he is deciding that his best and greatest help com judicious sovernmental agricultural expenditure judicious governmentat agrultural policy which and it progressual education and training to carries agricultural farm. The District lepresentative work irm Ontario is surely one of the best proofs of this contention. The capable, competent, practical man located in a county where he makes a special study of the situation in each district, knows the soil, the climatic conditions, and, best of all, the farmers themselves can do more good in one year than outside speakers, be they cver so capable, can hope to accomplish in a decade. Farmers invariably place their confidence in a man they know personally rather tham in a stranger, of whom they are, ofter without reason, suspirious. The localizing of the work strengthens in through confidence, and through the intimate knowledge whin the worker gets of ably. done on the part of the agricultural department done on the part of the agricultural aeparment
in this direction. If the farmer can get the in formation he wants delivered at his farm he wiil formation he wants delivered allage after it. This is proven by the popularity of the farm pres
But we have digressed from the original sutject. Producers must do more to help themselves to better selling conditions. They have co-operated to some extent, but not nearls to control the rush of certain products to certain markets at certain seasons, a practice which in Sariably lowers prices, and often below the point of profitable production. They must study markets and marketing, and be prepared to take advantage of all favorable market conditions and
avoid pitialls. We hope that the campaign for greater production will be a big success, and we also hope that the real problem of marketing the increased production may not be overlooked toy
the campaigners. War conditions are only temporary; great changes in farm practice are costpresent available one product we are likely, wit other staples. It is a lig problem, and we would advise all readers to attend all the agricultural meetings they can this winter, and if the marketinge end of the subject is not brought out in the addresses bring it up in discuscion, and let some conclusion be arrived at or at least get the . The greatest measure of heip always goes to the men who put forth greatest effort to help
themselves. Besides all this if peduction themselves. Besides, all this, if production is to be increased more labor must be a valable. Few ing their business go ahead who are not mak-

Wery mergetic farmer is anxious to know more about his business, and all have had somd
valuable experience which would heln other they only knew about it Tet them benefit ander in the columens of "The Farmer's Idvocato The man who is found most frequmenty on the monceng mearest the little stove in the village i: the. Stalle at home. The the fattest cattle he has in summer, and the natil-kes seat is than The cane of the man in ment is creath impurat


## Nature's Diary.

For the naturalist and the lover of scemery the mountains have a strong fascination. scenery of the sea shore of placid rivers and true grande of open woodlands, is beautiful, but Lowland scenery exists only in mountain scenery mountain scenery inspires. To may from the valley at the snow-clad peaks towering thousands whose above, to stand on the verge of chasms heights and look off almost infinite, to climb ascend to the summit of a high mountain ancl command a view in which the country appears spread out like a map-the large lakes appearing as little ponds, the rivers as thin lines, and tio
see other peaks ranged about in all directioni see other peaks ranged about in all direction: thanes the soul sing. The streams in the moun and a suggestion of reserve force: often they drop over a precipice and fall in a "bridal vell" "
thousand, several thousand, feet. The avalanche come down with a roar as of heave artillery roar which echoes and re-echoes among the peaks and the
smoke.

We in Canada are fortunate in possessing som of the finest mountain scenery in various parts of the world, in the Alps, in the Himalayas, in Alaska there are higher mountains, but the concensus of opinion of those why conversed is that in their beauty and grandeur in their combination of well-wooded slopes rugged peaks and snow-capped summits, the Cair And not onlw in the l2ockir
mountains, we have the Selkirks with a quig difierent type of scenery and flora, and the Coas Mountains with characteristics all their own While the Coast Mountains do not reach th
same absolute altitude as the Rockies tive altitude is just as great, for instead of the peaks rising fyom a general level of four to tii rise from sea-level to heights of from four mine thousand feyt. The timber-iine and th snow-line are also lower on the Coast, the form er being about 7,500 feet in the Rockies ant
6,000 fect in the ''oast Mountains. In som places, for instance ulong Howe Sound, the Coas Mountains rise straight from the sea to height To the naturatist the main attraction of the mountains lies in the fact that tirely different from those forms of animal and plant life found at lower altitudes, but there
the added charm of observing the chances whit take place as one reaches different elevations. observe anything like corresponding changes in
flat country one a thousand miles north. In fact in namin groups of animals and plants characteristic
differen Arctic remes those of trigh mountains and the Aipine group. It is interesting the Arctic mountain forms of life came to be the same came down from the north it drove lafore it al forms of life. 11 s atrance was vers slow, : eventually far northern forms grew where and sheni-tropical on's trad flourished. As the ict sheet retreated the northern forms followed it wh
when mountains were approached somme of When mountains were approached some of the as the climato became milder, while in lec country they followed the ice-sheet to the Arctic In the case of low mountains the far northen
forms were not able to endure the climate, ever at the were not able to endure the climate, evel
at and perished, but in the casc high mountains they found a suitable habitat to Wards the top, "nd there they are to-day. The changes which thke place at difierent eleva
tions are very noticeat)le. In climbing Wit Bail son, in Vancouver Range on Vancouver Island, found that the flora for the first 2,600 feet wat mainly of Douglas Fit, Giant Clatar, Wensistine Hemock, Salat, Small-iruited Rose, nweut
Pacific Sword Fern and orther species nsually sociated with thes.. IByt athove this there was very marked change, the Mountain Pine, Moin
tain Cedar, Mountain Wemlock, renlaced the twin seen at lower altitudes, the Duari Jumine $3 /$ Beherries appeared. Ind the summit at aloont



JANUARY 7, 1915
nainland, to the south are the chains of large islands between Nanaimo and Victoria, (Gabriola, rable smaller ones, and in the distance the straits of Juan de Fuca, while to the West one
looks over other mountains of ' the Vancouver looks over other mourcins onds a view some
liange. Thus Ienson commands
two hundred miles long by a hundred miles wide, ivo hundred milles long by a hundred miles wide,

## THE HORSE.

Wonderful War Horses.
It is wonderful how the horse will addapt inself
circumstances and work with almost human in 0 circumstancess and work with almost hur.an in
Our English correspondent has sent telligence,
ns an interesting clipping which we reproduce in
these colums. hese columns.
If war has no other virtue
riendship of men and horses.
There are many English gunuers-and if gun There are many English gumers-and in gun
ars. much more cavalrymen-whose greatest am ners. much more cavary farite horse or two safe through the war and home again, and they ex-
In spite of the terrible waste pect to succeed. In spite ond hy disease, a not if horses by sudden death and when they started on the campaign.
They came down from Mons in the retreat, un Faddled or unharnessed for innumerable hours and capriciously fed; but they played a Pase, accompanied
part in the advance to the Aisne part in the
the $/$ British army in its rapid movement Belpium, and are now in perfect con to be. They
cleverer than any horse is suposid the daily adt exhibit an intelligent vigor
miration of thirir masters. These old horses are as valuable as experienc
They have nothing to learn about wal soldiers. They havew driver a good deal.
und can teach any new driver a good kow with
For example, many of these animals know of one For example, matness the proper interval of one gun from another. To swing the gon an instinct the due distance is now rigruarity of a ploughing and pertorm he turns at the headland of the field if the driver. less skillful or wise in the art, a
in tempts to bring one gun too near his own hand the horse takes the matter in bit or whip. The will not disobey the regulation an anyone. On may hope with the gunner. Who has arney will suffered and won with his horses, that ind the searoing horsebox and recross the Channes They
cnd of a peaceful life in British barracks. The could
armvi a ter a certain length and closeness of associa tion between men and horses the distrinces tenus terds to disappear. The experiences up oo similar in many ways. Me arefully selected along with the ibtion is as precisely arranged. When the men have leisure to shave the horses also aro better gromed. and whe harness be-
 orses-and no doubt the artillery horse kmo
horsuance
much that they welcome davs of advance urely as an old
IIMnting inorning.
The whole organization of the daily life of the Morses is sinnoulariy human. The system of base
and clearing hospitals, is at least as
and

 wounded horse is as and they recover foth now quite thay one say ?-normal very readily
health and-may Some of the old stagerss are almote as of instruct-
telling the vets." where to prote as teling the gets. in the geometrics of gun emplacement of course most breakakes ate bes yond remedv, hut the cures amorng hattle are oprated upon almost the reatest admirer of the horse must confrss to one etle. The horse does not stand pain well. A great provoriont to oth cavary and atrnulv and without wincinc. The pick of those wise old horses acronnen", in attected be the explosiour of a "Jack Inchncon in
their neichthorhoord than bve the arateful thunder ,icir neightorhood than ehe gratetut hund it their own erus which they hows the then
 fial, is anter all most wild anininals. There are Thmestic and most wida with pantionco. when hy

THE FARMER'S ADVOCATE.
have the courage of "cold blood," with which have the courage of "cold blood," with which may be ear at a neighboring detonation which horses that have lived through the terrors of the retreat and covered without failing the northern haurney have learnt war only less intelligently who increase in physical fitness with campaigners, hardships,
mon things On the whole the horses enjoy a better time han their masters. Some quite charming win-
er quarters have been built for them, and are be ing built, in the neighborhood of the' British lines where they approach the Flemish and French houndaries. The people of the country are very
zood and ny gaps there may be in the commissariat; and in a comparatively static parto of the campaign
the work has not been heavy.
In the science of war as of peace every effort las been made to supplant the horse by me
chanical power. The Gernans have gone a long way in the endeavor. They can now trundle their guns behind tractors and even upon tracfields. But ploughiand defies them, and still the horses are needed at the end of the journey to swing the guns into place over he tith or Euns must now he put tö avoid detection. The refoicing of a British guñner-a real lover of his nnimals- at this victory of the horse lover the motor in this department rembemane of the called in with his scythe to mow rourrd the corn ris and tree trunks which defied the machines.

enoir.

Unhappity one may not altoget her rejoice with him. The horses are brave and clever and faith able friends as always. But in spite of 'all that can be done for them they suffier immeasurably
They suffer only less than men suffer in this mad They suffer only less than then suffer in this mad
and cruel duel of destructive chemistry and mechanics against living flesh.

## Rations for Fattening Horses.

$\qquad$ spring sales are consummated it is not a bad plan horse or horses intended for sale. The buyer is not wise to look very far for a thickly-fleshed
horse unless he be well muscled on the limbs and horse unless he be well muscled on the limbs and
other places which indicate that the fattening process has been moing on while the animal was worked or exercised. However, the most highlyfinished onerings are not hard for it in
detrimental to successful fattening to allow the the horse to move about to any appreciable ex-
tent. Thes should be kept quiet, comfortable nature. This is the feeder's lusiness, und it ris mains with the ultimato pu
to see that it is in shape
It is generalls understood that it is sufer to
atter circumstances, defects will stand out more conspicuously. In spite of this generally appreciated axiom buyers will bid for flesh, and it has been demonstrated several times this season
that it does not pay to offer unfitted animals at that it does not piders will run up an animal which is slick and well-covered and allow a bet-
ter animal with more desirable conformation, ter animal with more desirable conformation,
though poorly fleshed, to be knocked down at hough poorly fleshed, to be knocked down at prepare his offering to suit the buying public, and ill not be prejudiced by what he knows the buy-
Experiment stations in this country have not devoted as much time to investigation work with horses as with other lines of stock, yet some inmen have invaded the experimental field much to their own advantage as well as to the profit of the people at large. It is agreed that the horse should be kept It is agreed that the horse should be kept
very quiet, and in this connection single tie stalls have given better results than box stalls. As for the roughage clover hay is superior to timothy, especially when corn is an important part of the ration fed. Bran actor when fed in conjunction with clover, the combination being too laxative. I ration having a nutritive ratio made up of one part of protein to eight parts o
carlohydrates and fats has proven mos carlohydrates and fats
A few years ago the University of Illinois undertook some experimental work which included three groups of horses. The different groups re-
ceived different rations made up as follows: Lot ceived different rations made up as ay; oot 2-corn, oats, bran, oil meal, clover hay; lot 3-corn, ats, hran, oil meal, timothy hay. Results from this test prompted thena
to say, Froun these re-
sults we must conclude sults we must conclude
that so far as gains are that so far as gains are
concerned a mixed grain concerned a mixed grain
ration of corn and oats
is superior to a straight is superior to a straight
corn ration when fed in conjunction with clover hav; and clower hay is much more valuable than in coniun
In another experiment wo groups of horses were put under test to xercise or quiet walked 2.8 miles daily or 84 days made an average daily gain of pounds, while those not
exercised ga in in d 2.49 pounds per day. Heavy in the legs when stock given exercise, but un-
der such circumstances the run of a box stall
the laxative foods will correct the trouble. At
a time of high-priced a time of high-priced ent, it is necessary to count the cost of all
fodders. At time of it the side points at $\$ 1.41$ per per cwt. wholesates corn is quoted at $\$ 1.35$ protein, while corm excels in carbohydrates to with clover hay it might be wise to purchase even a quantity of corn and substitute a portion of the oat allowance with that fattening food. One is not obliged to keep the percentage of protein
so high with fattening animals as with dairy so high with fattening animals as with dairy
cattle, and it is much easier in consequence to cattle, and it is much easier in consere is a 'something", about oats, however, thrat is meant for horses, and no feed or should neglect its import-
ance. Where corn is plentiful 12 parts of corn to four parts of oats along with clover hay is a slitable ration, but with timothy hay 1 part sparincriv to good advantage. 1,500 On full feed horseg weirhing around 1,500 pounds will consume 18 to 20 pounds of grain
and 12 to 14 pounds of hay per day. The



Wrchase anv animal when in medium flesh rather
cinstom is sometimes followed to rive this in five
feonk hat it is usually dispensed at three feeding
purinds. The hay is priven in equal fuantities
niorht and morming. The animmplo recerive water
first thine in the morning. Thev are then eiven
ther, erain. which is followed with hat. This is
reneated at noon and in the wening, only at


## THE FARMER'S ADVOCATE.

## Exercising Mares and Colts Together.

Good horsemen sometimes assert that it is not the best practice to turn colts, brood mares and other horsses out together for exercise because of the danger of the playful youngsters kicking the older animals or of the older animals angrily kicking the
colts whose playfulness tomes colts whose playfulness teases them considerably.
There is a good deal of truth in this contration but we have of deal of truth in this contention, which would scarcely stir away from the stable doors when let out unless there wore turned with them some colts or younger animals ou active and more ready to take advantage of the liberty afforded by the freedom of the ard the dock or small field adjacent to the building Then too, the colt is generally able to take care of himself and will get out of the way of the exercise. A few days ago we sair two mares and three colts running together, both the mares being particularly cranky with younger stock and the
three youngsters being iull of three younsterss being full of life and al ways
ready to torment the older animals. The entire
lot were taking avercise to usual period of being in the open field a kraging aroun was the tour hours a day and the whole time was taken up in racing from place to place
none of it being spent in hanging around the stable door as quiet as if they were in the tall Now wo know that had the coltse not been out that
with the old mares the latter would with the old mares the latter would not have
taken one-quarter the exercise which they did taken one-quarter the exercise which they did
with the colts accompanying them. This has
been the general beon the coneral accompanying them. This has
binury
initice since freezing up and no injury has yet come to any one of the five, and, while there is a danger that some of then, may is more than off-set by the extra amount of neectpd exercise which both the colts and the brood mares
receive. These animals are receive. These animals are all being fairly well
fed, not heavily, but liberally, on good hay and oats and not a sign of stocking is to be noticect
on any of them. Had the same individuals peen kept in the stabies or allowed to Iopitivauals then the
stable doors, not taking the exercise which they are now getting, every one of them which they
ave shown signs of swelling of of the legs and stiffiness
due to inaction. It may be dangerous to lit the due to inaction. It may be dangerous to let the cise but we believe that it is far together for exer-
the exercise to leading to the exercise to leading to the trough to water and compelling the animal to stand in a narrow stal
the greater part of the time or allowing them $t$ un out separately where they usually a
induced to exercise very much. Where the
greater part of colts have pastured togipther the danger of anything serious happening hy their running together in the exercising yard during the winter months. Give it a trial and see whether he results do not justify the practice. Of course yery crabid old kickers might do damage but the
average horses and colts will not
$\mathrm{L}^{V^{-}}$STOCK.
Hog.
odate hand
nartment

and will likely save many a litter to the swine-
raiser who will read this bulletin. on raising young pigs is intensely practical Hints on dealing with rupture and other troubles are also given,
garding exercise
The ghapter dealing with the curing of pork is worth much to those who put up their own meat. An excellent method to try out lard is also de on the question of buildings much attention upboth stationary and portable pens that he can heartily recommend. Ite also pays considerable heed to sanitation, giving the latest suggestions alle chapter is that devoted to the A valu diseases of swine. Many of these are described, and their treatment is covered in so full and practically his own veterinarian. Any fagner desiring a copy of this latest bulletin on "Swine", will receive one free by writing to the Depart-

## Getting a Good Scald.

Wery pig feeder who has butchered black plus has some time had difficulty in getting a goorl Advocate and Home Journal of the Farmer interest readers. lean and white can not be made to look just as butcher, but I have ki'led and dressed a great "To of pigs of all colors
hot have the water ton a clean pig you must han a half barrel of boiling water which I les o scald, I add five callons of cold water and a three pigs in this, if T am killing thald two or careful not to leave the pir too long in the Pull him out three or four times during the scald ing, long enough to let the air at him.


Dorset Wether.


Hog-butchering
I was quite interested in an article in a recent
issue from Flsie Carter on hog-killing think the writer was right about using the riffe wondering whether the hog, etc, has but I was
went any improve-
ment in butchering methods since I was ment in butchering methods since I was a boy, on "pig-killing day," with used to shoot the pigs ofig-kining day," with a shot gun. Instead the right size to fit, the old muzzle loading shot
cum. Ite then stood in front of the pig, and shot it in the then stood in front of the pig, and shot bone, and did not damage the meat, but the pir never knew what hit it, nor felt the pain of the
kirife. I think this old-fasthioned method kirife. I think this old-fasthioned method has not
hiven improved upon.

A Big Turnover.

## Corn Vs. Oats

ome crical scarcry of ieeding oats has substitute for that grain. In the Western fro inces they have turned somewhat to corn as substitute, as it may be brought in from th promised to make a reduction in freight rat after January 15th. In Ontario where certain
districts hape specialized largely in corn the has been good and there should be a liberal supply. It might be wise in such cases for feeder to eke out the grain grown wh a portion of corn larms of the province are quoted at 48 cents outside while America ${ }_{7}$ orn can be bought in carload lots in Toronto for weighs 34 pounds, while ne bushel of oat pounds. Reducing these to the equal standard worth $\$ 1.41$ we find that quantity of oats to worth $\$ 1.41$, while the same weight of corn i
valued at $\$ 1.35$. vatued at $\$ 1.35$ hecessary to reckon their feeding and stuffs it is necessary to reckon their feeding and manuria

values. The following table gives the compara tive values of oats and corn in regard to th three important materials of feed, namely ( Ibs in 100 Protein. (arbohydrates. Fits |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Corn, Dent | …....... | 7.8 | 7.8 | 66.2 | This table reveals the fact that there is in oat 1 per cent. more protein than in corn, yet the more carbohydrates. In fats they are bor cen same. The analysis of these fodders recommend corn for the store or feeder cattle, while a small quancre of it might be fed to dairy cows provided stuff such as bran, cotton-sead meal or feeding Provided manual value there is little difference appropriated by the feeding stoci, incredients ar ertilizer to the extent of $\$ 8.54$ in the would be

ent the corn would contain a value of $\$ 7.86$ per ton the growing or fattening animal appropriated by ittle difference in these two fertilizers there is respect. With the much reduced price now asked for otton-seed meal, dairymen might incorporate duantity of corn into the mixture and yet have seed meal.
These prices do not always ohtain for orn and oats but the principle of bringing them values always remains the samering their feeding high priced feeding stuffis stockmen At the time of ery closely as to their rations and foom figure hey are procured. This is probably one source

## Management of Sows During

 Pregnancy.nind. One is that the sow is doing be borne Not only is she maintaining her own physical this is a constantly increasing a drain on litter, and
the system in addition to that of keepinar on the sys bodily functions. Her condition should be goond -not too fat or too thin, but in a healthy. away wrond the four to six weeks of to 'milk arrives. It is a serious mistake to allow the
sow to become thin in the sow to become thin in the helief that her reproparturition and that here capahle at time of
wholesome will he me moll wholesome. True it is. the sow should be mor while developing the vound she be liberally fed often stinginess on the part of the it is more prompts himess to frugality than any feeder that taught lesson that liberality is a mistake. demands unon the sow are thered that the main of new tissue. the sow are those for the building
foorl should food should be nitrogenous important thrat her
Ficeeding in stuffs such as protein Feeding stuffs such as bran, peas, oats in protein
are suitable. and some alforiey are suitable, and some alfalfa or ols clover warl ing
crease the bukk and at the same time furnish fon
siderable nutrition crease the bulk and at the same time furnish con-
siderable nut rition, In the summer time it is at
different pronosition, for the pasture grasses and
(ontcoont conditions.

## THE FARMER'S ADVOCATE

and the greater part of the grain ration is given
as a slop, and towards the end of the period yestation a little oil meal or a small amount o
lixseed meal is introduced into the mixture llaxseed stuff. To offset the absence of gree
feeding stis food in winter there is nothing better than roots. They may be sliced or pulped and mixed with grain or fed whole as a feed at noon. They
are laxative in their effiect and too liberal an allowance might bring about a too energetic
action of the bowels.
Consequently, even this action of the bowels. Consequently, even this
cooling, and healthy article of swine diet should cooling, and healthy article of swine diet should
he dispensed with discretion. The craving of the he dispensed with discretion. The craving of the
hog should be meet with a mixture of charcoal, hood ashes, lime, salt and iron sulphate con-
woon
tantly hefore them. The compound acts as stantly before them. The compound acts as a
vermifure oprevents disease and satisfies that vermifuge, prevents disease and satisties that
craving too common in tarrowing sows. The
constant use of such a mixure with foods concraving too common in iarrow wh sows. con-
constant use of such a mixture with foods con
taining alibral amount of proteit will maintain taining a liberal amount of protein will maintain
a healthy, vigorous system, keep) the sow in normal condition and insure greater successs ${ }^{\text {broo }}$ sows that mest, ine conumended, and that is the habit of exercising regularly. At times it may
be at the end of a whip but it is wise under any circumstances, and where the pens are small the barnyard should be brought into service and the
cows exercised there. Walking one mile day is not too severe a constitutional for a pregnant sow, and she should be forced a certain amount of exercise each day. With
all the keeper should handle the sow frequently

Fresh Air and Exercise for Young Cattle.
Of late the practice of housing all the stock
continuously in winter has grown on many farms until not even the calves are let out for fresh air
and exercise. By housing continuously we mean keeping the cattle in the stable from fall to spring
without allowing them outside even for an hour or so a day. Inis practice may or may not be
advisable for mairy cows in milk miterent advisable for dairy cows in milk, Different
successful dairymen have different views on the subject.
However, it is our firin conviction that with the young cattle, calves and growing stock better
success on the whole would be obtained from success on these to have from an hour to a few
allowing exercise in the open air in the farm-yard
hours ex. each day during winter, provided, of course, the
day is not too bitter cold or too rough and day
stormy. Of course, were the stables properly sentilated and properly lighted and the youngsters
vilowed to run loose gult the time in confortable. allowed to run loose all the time in comfortable,
well-bedded loo stalls there would not be such a great need of out-door exercise, but a large per-
centage of farm stables in this country are very poorly ventilated, in fact, many of them have
little provision for ventilation outside oi doors and windows and nothing to carry off the foul air, aad besides this the proportion of box stalls
in most stables is altorether too calves and young stock on too many farms are compelled to stand, throughout th. winter, tied
by the neck in narrow stalls, often dark and
 developed to the greatest possible extent it is
absolutely necessary that they get outdoor exercise and iresh air. Their growth will be mor
rapid and their general health much better than where they are confined all the time in an ill-
ventilated stable. "entiliated stable.
Cattlo should
badly chilled, but we believe that it will not do the growing animal any more harm to shiver
occasionally than it will to pine in a narrow occasionally than it will to pine in a nd fresh
dark stall for lack of exercise, suntight and frem air. Besides cattle once accustomed to groing out
every day will stand considerable cold without every day will stand considerable cold without
feeling it. They like to get a play in the farmfeeling it. They like to get a play in the farm-
yard and a rub around the straw stack and may ye found standing, at the south side oi the building or the stack in the sunshine on sunny after-
noons looking much more alive than those too closely confined. for a short time each day in the barnyard. Con-
stitution, is one of the main considerations in the stitution, is one of the main considtrations in the
breeeling and feeding of cattle The animal which
Hed lacks in this particular can never prove as proti-
able to its owner an the one which has been well
devele exercise and the frush air which accompan

Has Saved Him Many Bills.
 and while writing yoll I wish to express my appreci-
ation of your very helpulul publication in it varions dippartmonts. The Queries Column has
caved men much in veterinary livls and a fund of



## THE FARM.

Stick to Good Cultivation and Stock.
A mong other
Marshall, Minist of Agriculture Marstant, Minister of Agriculture for Alberta, ber of "'The Farmer's Advocate and Home Journal," of Winnipeg, Man., were the following Prolubly onta Proluably the greatest danger to the farmer
at present is that of being stampeded into a ine of operation that looks like a good thing in the immediate future, but that in the end may not desirable line of action. Farmers are being advised to make a special effort to grow grain to
feed the war-stricken countries.
It will be good beed the war-stheten countries. every acre he cal under crop next year, as the price for grain will not only likely hold good, but will in all prob-
ability go higher; but it is only good business to alo this when you can, get your crop in under good conditions. Don't let any farmer be per-
suaded next spring to sow to grain the field that suaded next spring to sow to grain the field that
he knows should be summerfallowed. It would be better to put the extra time and labor on the land few extra strokes with the harrow, making the seedbed as perfect as possible, thus ensuring a
letter crop on clean, fresh land, than to spend time rushing imto crop land that is dirty and worn, and that needs a summer's work to fit it
for growing a reasonably good crop. The farmer who will be the best off in the
long run is the man who will not allow the long run is the man who will not allow the
present high prices to turn him from the best
methods of soil cultivation he knows, hand who methors of soil cult tivation he knows. and who
will keep steadily on improving his system of


Elita.
farming. He may be able to crop more now, as
latoor will be cheaper, and he should 'if he can Dut he must not sacrifice efficiency i.
simply to get a larger area seeded.
What I have said about cultivatio the soil is also true of live stock. cultivation of the 1 fear is that farmers may be tempted io sacrifice their live stock on account of the high prices of gram. Non't do this. Live stock is ing to-day, just as surely as it has been in the past. Circumstances seem to have conspired at the present moment to depreciate live stock
prices, but just as surely as the packers have pounded down the prices at the present, because and cattlo so surely will ther be compelled to pay good prices for hogs and cattle a short time hence.
The world's supply of meat can not be producer as quichly as a supply of grain, and the man who This samu condition holds good respect ing will be almost Ammihilated, and the farmer who is raising a few draft coits now will find a marki.t
that will be attractive and profitalle before lone
 In conclusion, the business of theafarmer it
the cultivation of his land and the quality and number of his live stock; putting a little extra
effort into his farm operations because of the great crisis through which we are passing, but at all times keeping his head and farming for future as well as present results

More on Financing Farming.
Editor '"The Farmer's Advocate": In my former letter I endeavored to show that
the chief problem affecting farmers to-day was the chief pronter afiecting farmers to-day was
the problem of getting adequate returns from
their investments in farm property, and I also heir investments in farm property, and I also-
endeavored to dismiss from the minds of my endeavored to dismiss from the minds of my
readers the idea that lack of credit facilities was he chief cause of the trouble. Having thus cleared the ground I propose to deal with what consider to the chief cause, and ask you to the evidence. The fact that the war in progress and that prices of farm produce will be temporarily increased, owing to the fear of a scarcity
and the consequent desire to purchase supplies nd the eonsequent desire to purchase supplies shortage of producers in Europe, should not blind our eyes and lead us to the belief that this. increase in prices caw be anything but temporary,
for when once the abnormal conditions now prefor when once the abnormal conditions now preassert themselves and things will be as they were before. Therefore, when you read of the
back-to-the-land movement and so on, think of the future. and do not forget that as capital always takes the line of createst profits when normal times return it also will, tend to flow in its ordinary ehannels unless the farming com-
munity take advantage of their temporarily munity take advantage of their temporarily
strengthened position to entrench themselves there
firmly. firmly. question directly by
stating $t h a t ~ t h e r ~$ stating that the
conclusion I bave come to, based on
my own experience, my own experience, is that the whole
trouble lies in th e system of distribution
of farm products, and of farm products, and
I want to make this clear by giving a few
instances in support of my contention. I am myself greatly in-
terested in . the raising of poultry. On
the ordinary iarm the ordinary farm given number of hens or chickens for any particular time is an an
unknown
quantity. As a result manyy many farmers are entirely unabie to tell what and do not know in they are profitable or keeping accurate accounts, am adle from my own experience to corroborate the conAgriculture, and as they are better known use them. The Department has found y experiment that to produce a cockerel weighing 4 lbs. alive requirts from 13 to 14 hos. of
grain, and that the cost of hatching each chicken raised is from 5 to 7 cents. You can all figure out for yourselves how much this comes to in
our own particular locality. The Department our own particular locality. The Department after giving these facts (Bulletin 217, Farm
Poultry) goes on to say on page 33 that each cockerel will sell in the market for at least forty cents, as if the said forty cents constituted ample
remuneration not only for the cost of hatching and raising but for the time and labor spent in and raising but the use of the invested capital. Take a flock of 100 cockerels, calculate the
maxinum profit, and think for a moment if the maximum profit, and think for a moment if the
game is worth the candle. I say the thing is ridiculous, and that the monetary return is far oo low to admit of any decent standard of livHow are we to improve this state of affairs? Ce obviously cannot lower the cost of produccreased sale prices. I notice a great many
articles in different periodicals informing us we creased sale prices. 1 notice a great many
articles in oufliferent periodicals informing us we
must produce early ctrickens to sell at a fancy must produce early clrickens to sell at a fancy
price and winter cggs. With the majority of price and winter cags. With the majority of arecial facilities and the investment of further mocial tacifles of capital, and moreover if overy farmer ctmounts of capital, and moreover if every farmer
was in a position to do these things the present
nor would 1 for a moment try to belittle the in zero weather, more grain is betier. A silo is
effects that improved methods would bring. My a good thing to have, but if you cannot afford it, point is that if all farmers produce on a uniform level of excellence, whether that level be high or low, the same conditions affecting dis
and sale of their products would result. Poultry I have taken as an example because I am directly interested in poultry raising. The
same principles apply however to any line of same principles apply however to any line of
farming activity. Yet again I was reading the other day of an organization which operates in the Western Provinces, and is I understood a co-
operative association for the selling of wheat on operative association for the selling of wheat on
hehalf of its members, the stockholders, who are in most cases the actual growers. I may be
wrong in these conclusions, but that would not wrong in these conclusions, but that would not
affect the principle of a similar organization on second year's operations of the company. It reading, and in it I saw often writing off a larg' amount out of profits for expenses of commencing
business, the net profits for the year on the business, the net profits for the year on the
capital invested were at the rate of 20 per cent.
Now I ask how many farners are there who Now I ask how many farmers are there who
make in addition to adequate pay for the labor make in addition to adequate pay for the labor
of themselves. their wives, their sons and their daughters, even 5 per cent. on the capital InThe conclusion is obvious. Union is strength Farmers must co-operate. In the West they are
more progressive than we are down here and ap parently more alive to their own interests, for also noticed an itzm relating that several more co operative societies had been organized in both
Alberta and Saskatchewan. In my own district the very reverse is true. How many times do we grumble at some old backlotter coming to town and spoiling our market by selling his goods a far less than current prices? I could name cas
after case of this sort of thing round my own after case of this sor of thing round my own
district. I hope it is not done elsewhere. but have my suspicions. Take poultry again. In
my own case I was able to act as my own comy own case I was able do act as my own co-
operative association by disposing of my product in the city at remunerative prices while everyone else was flooding my home market with chickens at a quarter apiece.
I am not attackin
things are middlemen are necessity and it is not to be expected that middlemen or men of any: sort should abstain from taking profits wherevel
they find them. The troubie I they find them. The troubie I think lies with organization allow themselves to be placed in : position of inequality, in short to be preyed up-
on. It is of no use for us to call 'upon the on. It is of no use for us to call upon the
Government. The Government helps those that
help themselves. We have not sufficient political hepresentation, true, of which more anon, but as a stream cannot use higher than its source, so we
who in this fine country form our own government are ourselves responsible for our own ills. As things are a governing hody can only provide
another link in the already far too lengthy chair between producer and consumer. Egg circles ar a case in point. One District Representative of
the Ontario Departinent of Agriculture inforines me that egg circles were to him a disappoint-
ment, and only served as very convenient feeders
to the wholesale to the wholesale company distributing thre eqges
I suggest, therefore, the formation of co-opera-
tive sales associations, the capital stock of which should be provided, not necessarily hy farmers but having this proviso in their constitution, that
after the payment of a certain fixed rate of
dividend to the stockholders, say dividend to the stockholders, say 7 per cent., all
surplus profits should be apportioned among the amouns of the orgamization in proportion to
amount of product supplicel h, , ecach, the stoch
holders to receive also a proportionath amount on the value of their holdiners. Similit arraner-
ments are often made in the case of industrial
companies, and while I do not now surceust meancompanies, and while I do not now surgest mean-
for the exactness of myy than if once the ideat
spreads and takes hold of the fanming commun


A Little General Farm Talk.
 at that time is what keeps the poors whim pooner, du
if principal payments could be mad, in hays and machinery
of Octoler and November, it would give tead farmer a better chance to foed more stock durin.
the winter months and the more stock woll fid on the farm the letter the. farmon is fed . Wed the true that i
starve you.to have my pirmutscan fend with eron desumt:, Althenghe the pric


## Make Repairs Early.

 It is not too early now to begin looking over get them in the and machinery andready for the fields when sossible repair,
spring opens ready for the fields when spring repair,
opens.
upe winter is still young, but with chores, wood cutting, and other farm work it caught by an early all too oftem the farmer is ush ahead a carly spring wholly umprepared to much to his yields the following summer. is the time to get the harrows away to the now smith shop and have them sharpened. One stroke with a sharp harrow wiil do better work than two whe a harrow which has the points worn making extra work which may be accomplitherd at once over the ground. Cultivator teeth should also be sharpened up and ready to do the work required of them. Most modern cultivators
have detachable points which may he easily have detachable points which may be easily kept
in the best of condition to thoroughly stir the soil. Take these with the harrows and get them ready. Seed drills and all tillage implements should be gone over first, all nuts tightened and
repairs seen to. After these have the mowing and harvesting machinery should get like attention. so that when the season comes when they are needed no time ts lost in running to the nearest town to get small repairs which year does not mean quite so much as time when speding is at hand, or the harvesting awaiting aper
A great deal of loss to farm machinery
caused through caused through rust. On warm days during the
winter or early spring before seeding is commenced money could often be saved by applying a coat of paint, not only to the wood parts but of the wood and will stop, to some extent, the work of the rust. A well-painted piece of the or steel does not rust iike one from which the paint has been rubbed through use. The life of the too short; in fact, it is not, in many cases, fifty per cent. of what it should be, due almost wholly and in painting and repairing as reauiredairs course, we take it that all the implements. Of machines are housed at this season. The man who leaves his binder, mower and rale in the
fence corner or under a tree Who leaves his binder, mower and rale in the
fence corner or under a tree to winter is the best
customer of the implement

## THE DAIRY.

Cows a Safe Investment
Present indications are that a great many dairy
farmers are contemplating slow the dairy industryplaring slowing up a li the on kinds of feed are high in price while milk account of the war. The daisy fappreciably on been making progress in his work during the past
iew years shat iew years, should he slower than perhaps any other class of farmer to change his system of
farming as a result oi the war. True the dar
siluntinn situation is a complex war. True, the dairy
measures incrensu and restrictive moasures increase expenditure, end restrictive
milk is produced for iarmer is on soliid ground and his but, the whire safe and he should not rush to het ince, nent is cows even though feed may be high in price and milk products not advancing in proportion. He thest remember that his prodoct is one for which
thenand is stull growing and of which is an increasing home consumption. Ahich there many dispersion sales are heing held and ars likely pive the huying public an excellent spring and these adding some first-class tested dairy opportunity of
farm to their farm equipment. No leetter dairy stock to their
lowed than wo buy som. lowed than to buy some of this stock and to make
it a point to impove it and inceas it a point to improve it and increase the produc-
tion per cow of the dairy cattle of this country.
As far as As far as those who have studied the industry can foretell thare is no indication, at the present
time, that dlairy products will become lower in
price There is price. There is, however, a chance to get higher
prices bv making an appreciable improvement in
the the quality of the output of the dairy. There seems to be a good future for the dairy. There hreed th. richt kind of dairy cattlo and who will
pay particular attention to increasing the produc-
tion por coup tiom per cow and the quality of the produc-
whether it be mik creat. whether it be milk, cream, butter, of cheese The vear 1914 was not noted for cheese.

## l

## THE FARMER'S ADVOCATE

 dairying to secure dairy stock at reasonatble some extent, but it the green material must beprices, because if hundreds and thousands of daicy used too great a thickness should be avoided, as
cows were thrown on the market, as in the casc it will tend to increase the heating propensities of any other commodity iur which the supply is
greater than the demand, prices would sur y dron ind the popularity of dairying would receive mor ir less of a hard kno
There is sure to be in the near future a greater demand than ever before for the best class of
nump-bred sires and pure-bred females of the dair breeds. We are only beginning progressive dairy ing in this country and yet our breeders have
made rapid strides as official records prove. It
is the records that is hy the records that profits will be made. The
cow and the sire of the future must show that
they are capable of that class of production which they are capable of that chass of pheading the line
puts them in the list of topers head profitable producers. A good dairy cow is a
oi prent gaie investment at any timp and she is a good
thing to keep on the farm at this time. If she
is valuable to kecp she is also a safe proposition Be Provident and Harvest Ice. We never realize the value of a thing while we
nave it in abundance, when we are withont it we
regret our prodigality and lament that we lacked the provident rature in time oi plents. Who has
not had that feeling during the sweltering summer days when the milk sours easily and provisions
are difficult to preserve. A few tons of ice snugare difficult to preserve. A few tons of ice snuy-
ly stored away beneath a foot of good sawdust is worth all the trouble and expense comnecten
with it.
i winter such as we are experiencing provides A winter such as we are experiencing provides
ice in plenty in most districts of Canald, and if one wishes to be popular with his neightor himere a few blocks of ice to give away in the warm
summer weather. There is something beyond summer weather. There is something beyond
this. It has gotten to be almost a national question concerning our dairy products. From
all quarters we hear that the quality of Ontario
dairy products could be impmoved. Western Prodairy products could be improved. Western Pro-
vinces, although new in the game, are old in successiul experience, and have somethire and sale o
tario already about the manufacture
products of the dairy. In connection wit creameries, in particular where collections
only made three times a week, it is necessary
provide some artificial means of keeping the ph
duct cool, or an ill-flavored and tainted butt

Advantages of Winter Dairying hears ago when dairying was not the highly
specialized industry that it is to-day, very fell cows freshened in the fall or early winter, winter "nilk in small quantity being procured from period the next spring about the time the grass
was reads to be turned upon. An increased home demand for milk and cream and milk products generally and the comparatively high prices which
have ruled in uinter have changed the general practice of the wide-awake dairsman. Who now
plans to breed his cows so that ther. Will freshen
in the fall or early winter, and with this chan ie he of course must grow more feed ior winter in
order to push his cows to their liest production. This means more silage, more roots, more clover
and alfalia and a better all round farm. It is conceded by men who shove cows to high records
that bigger annual yields ans obtained from cows which freshen in the fall. At the berinning of the lactation period a cow always mil's well, if she
is a dairy cow, and with good feed through the. Winter her production may be kept high. Then,
just at the time when she legins to fall of in flow grass comes and luxuriant pasture grass mont hs during carly summer her flow is main-
 off erratly in flow at the the orll freshening is a good way to increase production. Besides the
heary flow comes in winter whem prices are highest. All that is required is to grow considerahls roughage and a few mancels for corrective feed. Corn and roots, clean land; clover and alfalfa enrich it. More manure is made from better

## HORTICULTURE.

Experience Inspecting for Peach Diseases---Yellows and Little Peach.

appear just under the shin of the peach (about i
zee of a wheat grain) causing it to have a lumpin size of a wheat grain) causing it to have a lumpy
uneven appearance. Another way to distinguish Cellows from Little P'ach without the aid of the lows diseased trees a very peculiar bright red blotching on an occasional leaf, though it needs
the practiced eve to distinguish between it and he practiced eye to distinguish between it and
the ordinary red leaves commonly found on the rees in the inspection season. I have never seen this peculiar red leaf on trees affected with Little The affect of Little Peach disease on the fruit is directly opposite to what we find in the fruit
if the trens affected with Yeilows. The fruit on
itees afected rees aftected with Little Peach will seldom grow ne more than one-third the size it would on
healthy tree, and will be about two weeks later an ripening; it will be found lacking in flavor, dry The inspector must be able to identify the
white-fleshed peachps from the yellow-fleshed by the foliage alone as disease does not affect the in the of the white-fleshed varieties, and Elbertas in the same way it does the yellow-fleshed peaches.
nisease in the libertas and in most of the white arieties will not be found curling or clustering, and will remain green for a considerable length of seen to droop, the leaves The foliage will be slightly roll, making the tree have a wilted appearance. In determining whether a tree is diseased by the fruit, care should be taken not to
condemn a tree because the fruit is red just at the pit, ior several varieties of peaches aro always Found highly colored near the pit, such as This season my attention was drawn to a very ancommon case of disease in a thre-year-old
orchard where the discase made its appearance in the tips of the the disease made its appearance in than six inches at first. The trees were allowed on stand not marked, to allow us to watch the development of the disease. In three weeks' time tree, the foliage curling and showing a positive case of disease. In my experience as an inspector, co pring a period of twenty years, I have never Rootygall will cause the foliage to become
rellow, full is sometimes mistalien for disease. Peach-borers when working bedly in the trees Peach canker foliage to look bad. ioliage, but usually will not extend to branches
that are not cankered. One would naturally suppose disease would more often he found on poor, impoverished soil
than on rich, well-tilled land; but this is not the case, ior some of the most badly-affected orchards
I have scen were heavily manured, well-drained I have seen were heavily manured, well-drained
and well-cultivated; and in other cases neglected and we!l-cultivated; and in other cases neglected
orchards wers found badly affected. From orchards werp found badly affected. From
obs ration 1 am inclined to believe that disease obs rvation I am inclined to sede standing on soil where there is an excess of lime, or where there
is a soakage of water coming from a limestone is a soakace of the orchards. The most disastrous resulis from Yellows and 1.ittle Peach I hate ever seen were in orchards
where theres Wats pienty of limestone rock where there "Ias plenty of limestone rock the surface soil. The orchard I r ferred to conLained a thousand trees or more and the entire after it was planted. From experience I would say orchards standing near a large body of water (other conditions being equal) have less disease in them than where they are a distance away from
water. There is no dount in my mind but that water. There is no douht in my mind but that
there are local conditions which seem more favor-
anle to Yellows and Little Peach in some localities than in others. I know of one particular suction in this Ningara district where Mildew is cllows and Little Peach are also oftener found han in ulaces farther away. diseasps I have found that orchards situated near what is commonly callod "the mountain," which ctends through the Niagara district, have always Yellows and Little Peach. At the base of the mountain there are some soctions where at some period of time there has been carried down by large streans of water, soil mixed with limestone acres. Peaches planted on these places grow rapidly, but soon die out with Yellows. Again about hali way up the face of th's mountain there s a bench or ledge of land, in some places wide of several orchards being planted on it, but not one single orchard survived more than seven or cight years before the Yellows wiped it out
lgain, orchards planted just on the top of the mountain are badly affected. Along the face of this mountain there is more or less stagnant air drainare diately on the ton there is good ai

# THE FARMER'S ADVOCATE 

Founded 1866
carried up to orchards on the top ly the north
and north-west wind. I am undecided how to account for so much disease in this particular
ocality; whether it is climatic conditions or s il locality; whether it is climatic conditions or s.il
conditions I am not prepared to say, but am inclined to think climatic conditions the chief factor accountable for so much disease in this district. I am fully satisfied that where diseassed trees are promptly removed and burned the disease will not
spread very badly, and on the other hatd, if affected trees are allowed to remain standing fo a month or more there are nearly double the number of diseased trees the following year than
there would have been had the diseased trees been removed promptly
From experiments carried out at the Vineland Experiment Station, it has been proved that diseased buds inserted in a tree will require two years before the disease will be visible in the tree
and from this evidence I would think it would be etter to have an inspector examine the tre from which buds are being procured.
After the most careful infestigations carried eases of peach trees, none can tell us at what particular stage of development the disease spreads to other trees. As yet there is no prooi hat Yellows can be transmitted to healthy trees another. It has often been said by fruit-growers that diseased trees cut down and dragged through an orchard would spread the disease to other case, for I have taken badly diseased branches and brushed and whipped them against the foliage and ranches of healthy trees, and failed to inoculate tree with diseas
One large peach-grower seems to be of the a season after a bad attack of Peach-Curl or Curl-Leaf. If this were true, we would expect to find more disease in Fibertas than other vari tites because Elbertas are more subject to Leai-Curl
than most other varieties. However, we do not find Elbertas more subject to disease than other varieties: all varieties are subject to Yellows,
seedlings as well as others. If there is any eedings as well as others. if there is ans
variety more susceptible than another to disease
is the Triumph, and it is more difficult to it is the Triumph, and it is more difficult
identify Yellows in the Triumph when deternin ing by the fruit alone than any other
ow
In 1911 there were nearly 60,000 diseased 25,$000 ;$ in $1913,5,901$, in 1914, 3,000, Tre docrease from 60,000 in 1911 to 3,000 in 1914 is
due to the splendid co-oreration of the peachdue to the splendid co-oreration of the peach-
growers with the inspectors in promptly destrosang diseased trees. WALTER E. BIGGAR.

Chief Inspector of Orchard Pests for Ontario
Watch the Young Trees.
This
iable to
able to do their injury it: the voung orchard. and no damage is visible above, the field mice ing it useless, and perhals lifeless for all time to come. It would be wise to tramp around wil oif
them. If there is any danger such a pactice would break up their imome and divert thene from
the trees. If it is prossible thomeh, where then snow is not too deep or where the truns are
accessible, to protect them with summing sul-

 Most arietios of smel! font enten nemper



Bad Taste.


## POULTRY.

Meat and Vegetable Food 1 or Hens. A short time ayo a discussion twok place in Iood to poultry. To. clear the matter up wo
wrote to to Prof. W. R. Graham, of the Ontaric Agricultural College, who advised that lest re sutts would be obtained from cookny the meat
food if this could be done at reasonalle cost. The best patan he believed would be to bool some of the weat along with pulped rovis, and then
use about five to ten per cent, bo tuik of the
meat with onethird coobled roots and this dried meat with one-third corked roods and this irtect Whatever chop may be at the feeder's disposal. The origingil aryument was whet her it was harm-
ful or not to feed meat food rave. Vour often on tul or not to feed meat food raw. Very often on
the farm an animal dies froun no contakious disease or is accidently killed, and the meat in winter ona b be utilized for the poultry Many
feed this raw, hanginy it up in small chunks in fecd this raw, hanging it up in small chunk in it at will.' It was argued that this was a danterous practice and where there is any disease in the weat it is, but Prof. Graham states that
there would not be much fear of feeding raw meat in fairly liberal quantities provided it comes
from heal the animals, and it wrould do verv little harm unless fed in fairly larke quatities to birds
beiut held for breeding purposes.
Somehow or reiug held for breeding purposes. Somehow or
other
meat
food in unlimited quantities worhs against fertility, aud hatchalifity ir eggs.
Prof. Grahaim also stated that the most con-

- enient form of feediny raw meat at this season is to freeze it and then put it throush season cutter and feed it it this state. However, he rom boiling roots, boiling the meat and mixing Mll in with a meal or chop in the form of a mash.
Nith regard to feeding meat it mav lue said that the harm done to breeding fowls max to counter



## FARM BULLETIN

The War.
By Peter McArthur.
Inuring the past few weeks a number of corr
pondents have asked me to write about differe phases of the war, and above all to ". Tell thre
truth about it." To that challenco hesitate to respond. To that the the outstanding truth is that Canada is most horritly at war and many Canadians do not realize it. No matter
what our opinions may be about the causes of What our opinions may be about the causes of
the war, its justice, or our duty as loyal citizens
of the and all thrat we hope for are now at stake. With
ciermany the Cermany triumphant we might expect terrible
reprisals for the part we have already taken. To
look for protection to the Tinited statos and. it look for protection to the Thited States and its
Morroe Doctrine is neither brave nor dimnified.
 in the world our fertile tond cmationded tields selves. The prosition of Chanatay at the present
 Ins cannot stand ast
 and and do all in his powere tollome it tor a shoceess-
fill isue. Whe have chomen cour course, and there
can lue no thmine biack ait
 the delucion that war is dither follow inathen or on of maraeraph foct now 1 hat writhour the athove his emore. Althmeh a man mat desote much of it hroaks cout, or the whell mot fight a fire wher hompind Aomb. and I thate faith What is stind
they will make an end of it foreter. At present
it is futile to discuss such questions as whether it is futile to discuss such questions as whether
preparedness for war causes it or prevents it That all belongs to another era. Instead of reasoning against war we must fight against it, since there is no other way of ending it. I have faith that it is no part of Canada's destiny to
be destroyed in this contlict, and that the peace ful conquest of the wilderness by our fathers is not to give place to an armed conquest, but
to-day the fate of Canada is in the balance. to-day the fate of Canada is in the balance.
cannot find. it in my heart to urge any man to cannot find it in my heart to urge any man to
enlist, since I do not myself fall withrin the limite prescribed for those who may shoulder arms, but 1 cannot refrain from stating the gravity of the resent crisis. The battle for our freedom which is
being fought in France and Belgium is still for fromy being won, and it is not for us to stand by dly while the result is in question. The native born Canadian has everything at stake in this Even though he may not hrave the opportunity of serving his country in battle he should still feel the urgency of the call, and do his part with prove more necessary than soldiers we must proide the food and provide it freely. We must do all in our power whenever the opportunity offers. That is the truth about the war
At last I have found the ideal subiect for de wate in the country. At the literary societies peace, of country and city life and oimilar sub jects, and I may remark in passing that I have long since stopped trying to give assistance to
debaters who write asking for it, whether thes enclose a stamped envelope or not. The chief value of a debate lies in the individual work done
by the debater, and even if I were able to furnigh by the debater, and even if I were able to furnish
winning arguments, which is by no able, I would be doing more harm than grood Besides I am kept fairly busy digging out ideas compliment of being theught, I appreciate the even that appeal to my vanity no longer moves found a subiect which I should sube to see I have or a definite conclusion by the readers of "'The
Farmer's Advocate." To-day we killed a beef and the question has risen whether the value of the meat should be set down in the family acounts at the cost of production or at its present cost me only its pasture and a moderate vearling of feed I am out omly the cost of production But I am told that I might have made a good that possible profit to the cost. In the meantime I am going on drving part of the meat, making corned beef and force meat of more of it, and keeping the roasts in cold storage state of the armument I am inclinefl to the present the beef will all be caten before the ormestion is

The Annual Meeting of the Experimental Union
dre Fonorimantal Ting of the Ontrrio Auricultural Agricultural College. Guelph, on the 12 th and eaturestare of the most important o-operative work amonest farmers. These experi province, and it is bery general throughout the arganization that sone of the best varieties of arm crops have bem introduct, and are now
krown extensice!, as for instance. the on The io-operative work of the past yoar has been Particular atcuntion whil be crisen this year to never a time in the history of the British Empire
when such close atlention was needed to in The iollowing are some of the sulbegsts which are Pportunitysed at the Annual Meeting: Which ario's
 Come Important Ways in Wy Horse Bre Farm Ning", frmation Geaned on Recont Tritural In All sessions of the Fxperimapan': etc. held on Tuesday and Werimesday., January 12 th and 13 th, are open to any person interested in to take part in the Mecting. Cheap rates have fuller arranged for on the certificate plan. For to the Secretary, C. A. Zavitz, Agrogram apply

A Big Consignment Sale Company Organized
of Weeting of vital interest to stock breeder l.ondon, Dec. 31, when an organization was signment to headquarters at London, Ont. Eipwards of thirty of the well-known live-stock breeders from all parts of Western Ontario availed
themselves of the opportunity to get together and themselves of the opportunnty to get together and
discuss the matter of forming a consignment sale company, which ultimately materialized in the
form of a joint stock company capitalized at form of a joint stock conpany capitalized a
$\$ 5,000$ in shares of $\$ 10$ each, ten per cent. of the to provide the necessary capital for commencing oprations at once. Considerable discussion took
phace regarding-the advisability of forming a place regarding the advisability of forming a
joint stock company but not a dissenting voice was heard, all were agreed that Western Ontario is one of the finest live-stock fields to draw from that could be found in America, and it was (10) big organization or private sales company ciasses of live stock. The need is apparent, and I.ondon being the most central and the largest
city in Western Ontario was at once decided upon as the place to hoid the sales. Furthermore, the management of the Western
Fair very generously granted he new association the use of the Western Fair grounds and buildings,
and hinted that were it needed a special huilding and hinted that were it needed a pecial huilding
might be constructed in which to hold the sales. Taken all together the conditions under which the meeting met and the favor with which those
present looked upon the project augurs well for the success of this new organization, which
should, if properly managed and rightly supported by the mon in whose interest it has been formed, grow into one of the most valuable organizations
in this country for the advancement of the liveack man's interest.
We believe it is proposed to hold a monthly
sale at the Western Fair grounds in London. All
classes of stock are to be included. It remains lasses of stock are to be included. It remains
with the Board of Jirectors to arrange the manner of selliner. It is suggested that pure-bred through this organization, making it a distribut-
ing centre for all kinds of live stock in Western unt some of those present thought that it would le advisable in having sales to confine the animals sold on one particular day to pure-breds oi
the beef breeds; of cattle another day pure-breds of the dairy breeds, then a day for sheep and crine and a day for horses as the case might be. to sell grade stock and pure-bred stock at the
same time. However, this is a matter of detail to he worked out by the officers of the company. tock is thet all classes of stock are to be sold, and is a man has a ceam of horses or a high-
dozen feeder cattle or a few pigs or some high
class pure-bred stock, it matters not, ali will be Class pure-bred stock, it matters not, ali will be
hatalled by the association. This gives aur ex Whent orportunity for those oprating on ${ }^{\text {an }}$ hig men, and get the hanelit of experience and
ngranization. one good point which was settled
at the manting was that sharehoiders, no mattel how many shares thes hold, will be allowed only
one wote was pointed out in the beginnimy
hat the comnany was not operating so much as

 man shond have more rotns than another
lllowing each share to carr with it the privilege
oi a vole would. providet the weranization he

 that the comranv has started right in providin
chlicient aqiat to operate on a somind hasis
and we ate also pleased that they saw fit to shlopt the clace of . one man one wo ? hecause hind, all that it needs is a good, capathe, andimation. backed up hy a directorate read chack commany in the Province.
There is a l,ig field im Western Ontario. Wh hnows but that with proper management and a
agyressive policy this organization mirht not sel practically all the live stock marketed in Wester (loser to man farmers' doors, and sellimy direct as it wiil, mivht also put considerably more cas
it the producer's pocket. Resides all this in surely will he one of the best places to thuy and
cell mure-bred cattle. horses, sheen and swine
hir project and has some good men behind it, for
as provisional directors were appointed, $S$. R.
Us as provisional directors were appointed, S. R.
Ic littie, Muncey; Capt. T.E. Robson, London; J. 1. Brien, Ridgetown; Harry Smith, Hay, and J.
T. Gibson, Denfield. As previously stated the details of the organization are yet to be worked out, but the company is going about it in the right way, is applying for charter and pian to do everything in an honest, straight-forward, lish confidence in the minds of all those who have any dealings with the company. Here is success

## Ayrshire Sale at Ingersoll

 The first annual auction sale of Ayrshire cattle under the auspices of the Southern Counties Ayr-shire Breeders' Club was held at Butler's Sale Stables, Ingersoll, on Wednesday, December 30th, 1914. Fifty-eight head of Ayrshire cattle came
under the hammer which was wielded by Moore \& Dean and sold for the grand total of $\$ 5,490$ of J. A. Morrison's consignment. She was purchased by A.S. Turner \& Son, of Ryckman's
Corners, for $\$ 230$. The fifty-eight head averaged $\$ 94.65$ each. Seven of this total number were calves and twenty were yearlings. The averaged $\$ 67.12$. The day was favorable for the sale and the accommodations good, while bidding Was
which are now curtailing a!l kinds of commercial deals. The buyers came from considerable distances but mostly from Western ontario Following is the list of the animals and their
purchasers which realized $\$ 100$ or over per head: Annetue 5th. N. M. Fergusson, London, $\$ 180.00$ Annette 5 th; M. M. Fergusson, London,
Brownie of Fernbrook; E. B. Palyner \&

## Scotland Princess; Fmerson Moulton, Mt. Elgin, <br> Mt. Scotro Thistle:

S. Turner \& Sons,

Ingersoll
Columbine;
Columbine; C. U. Ginli, Mit. Figin,
Grace of Springbank;
E. B. Palmer
Briery of Mapledale; John Mchee, Nor
avich
Lenore 2 nd; H. McPherson, Or*ney,
Bessie of Fernbrook 2nd; J. E. McCon nell, London, Noughton Beauty: Geo. Leslie Banner Houghton Beauty: Geo. Leslie, Banner
:icottie's Nancy 4th; Angus Armour 1.assie of Fernbrook; J. Hugill, West Mountain Mountain IAass; A. S. Turner \& Son, ... Chief's Ruttercup of Fernbrook 3rd; Buttercup of Fernbrook 3rd; Geo. Lestie,
Grace of Fernlrook 2nd; E. B. Paliner Rose of Fernhrook, M. M. Fergusson, Buttercup of Fernbrook 4th; E.. B. Pal Colia 4th; John Stansell. Straffordville,
Buttercup of Fernbrook 2nd; F. B. Pal-

Conserve the Breeding Stock

## Faryone hnows that trad. conditions and

 and unexpected upheaval during the pryst seriousTo
To this situation the war has. oi cours. latrely contributed; bat othe causes intluding the
 to demand and supply The rit. in whe the wice of
grain, torecther with the correswonding fillip to
grain production. represents. wi $h$ int doult, the most omtstanding feature of the direction which
has foen given to agricultural actionty.
He need. perhaps alove all things else, sane, harel judgmont in the conduct of our agriculcural creased. The raw products of the soil are, and then is to be said, what course is to be followed "ith respect to the breeding of live stock?
The high price of feed, on the one hand, and relatively low prices for market stock, on the other have resulted in very heavy marw eting purposes. Perhaps this was inevitable, hut will these conditions continue? Feed grain will, with-
out doubt, be high in price, but it must never be overlooked that the country can maintan en en
large numbers of live stock on the
100.00 20.00 70.00 125.00 . 5.00 210.00 0500 150.00 105.00
135.00

To waste this, for the sake of the grain which can be grown, would, under the present circum-
stance, be criminal neglect. It is clear, then, that he country should conserve its breeding stock. hat plans should be carefully thought out as to the manner in which the greatest, quantity of rough fodder may become available for feeding purposes and as to the means by which this ings and unsaleable grain, may be utilized to the est possilile advantace. In other words eliminate vaste. Do it by feeding live stock.
The
The present low prices for stock cannot last nakes it careful review of the world situation ear. Europe is becoming seriously depleted in oth breeding and feeding stock. The United states, for ten months of the current year, at its leading markets is short as before stated, heavily liquidated her breeding animals and, while it may possibly maintain its quota next year of cattle and sheep, it is doubt
ful if more than seventy-five per cent. of the number of hogs will find their way to market in 1915, as compared with the current year. It is, therefore, a time for stocmmen to stay with all the other way A safe harvest is likely to be reaped by those who have stock for sale next year. Fven bankers and business men are of this opinion One word of advice is to be given. Avoid
marketing so far as it is at all possible to do so during the period of October fifteenth to Necember fifteenth. This is a time of the year when every body else has stock for sale. It is a period whe chean meat. These are the months when the surnlus of the whole country finds its way to the packing centres. It is invariably the period of
low prices, uncertain markets and disappointing low prices, uncertain markets and disappoine, to returns to the producers. for sale at some other time of the year. Take care to provide sufficient
winter faed that you may not be forced to sell winter feed that you may not be forced
when the cold weather comes. Above all, conserve when the cold weather
vour breeding stock. JOHN BRIGHT.

## Royalty and Agriculture.

Editor 'The Farmer's Advocate": The story of Britain's Kingly interest is the story of well advised men going out to attain that something which other people were either too afraid to do, or to conservative, insular, to attempt making any alteration in. George III. of England was the first king to permanently attach his name to anything apcalled popularly "Farmer George," and the title was quite deserved, for he ranged alongside Thomas Coke, Robert and the Earl of Leicester, in their gigantic efforts to improve the conditions of iive stock and agriculture in a period when the "common farm" system was in vogue. In farmers, who dwelt and farined together in communities and their stock ran together, interbreecting as they wifed, and of course doing no his system was found, and he estahlished farms Windsor, Kew, Richmond and Mortlake, all Thames-river places, where he went deeply into
the subject of soil study, skilful ploughing, wool he sulject of soil study, skilful ploughing, wool momevement and stock feeding. Cen wrote articles (1) the Annais of Agriculture, a periodical edited George III. was a stout-hearted heliever in the alue of the Merino sheep. Other men had failed i. e., Southdown) cross. In 1792 he
iecured 35 ewes and 5 rams straight from Spain, secured 35 ewes and 5 rams straight from Spain,
and they wre kept at Oatland's Park in Surrey and they wre'kept at Oatlands Park in surrey.
"hen the first clip of this Merino flock-it goes down in history as "the Spanish flock"-was displayed to the buyers they shook their heads-
British like! Although the wool was excellent British like! Although the wool was excellent
they said, they felt sure it would not make up so well as it looked, and they politely said "no bid" to the vendor. But George III. would not
Live in. IIe had cloth made from this Merino wool, at his own expense, and for a lone time he fouglot the obstinate manufacturers, until at last ings per pound, a figure a little over the current narket rates for Southdown wool at the time. The tide was turning. Bv 1799 the hest of the Nerino clip sold at 5 shillings and 9 pence per and six-pence, and the third a shilling a pound less. As a contrast, Southdown still ran ween two and three shillines per pound. that he had the immediately stopped giving away the rains and ewes to any and every one who had asked for then:- Rut, instead, he said, anyy one
could have a ram for five guineas and a ewe for

## THE FARMER'S ADVOCATE

two guineas, and at such figures buyers became
very many. The Spanish Grand Junta gave George III. a flock of 2,000 Merinos, the finest in
all Spain in 1807 and these all Spain in 1807, and these went over Britain at
George's price. In his reign 31 millions of acres George's price. In his reign 3i millions of acres
of farming land were enclosed, $i$. e., converted from commons," it being his conviction that the
land was never meant to be idle. land was never meant to be idle.
George IV. carried on the farm at Windsor
but he did not love agriculture, and in his day but he did not love agriculture, and, in his day,
Britain's oldest industry had a distinctly bad time of it. Sheep rot got ahead, and every @ne's hand seemed turned against the land. Wiliiam IV., his successor, was a sailor-'nuff said-and
it was left to Queen Victoria and her husband the it was left to Queen Victoria and her husband the
Prince Consort to take up the threads where "Farmer George" thad dropped them. The happiest pair in Europe. The Queen and her ausband virtually started their honeymoon by
granting the Royal Agricultural Society its granting the Royal Agricultural Society its
charter in 1840 . The Prince revived the drooping interest in the Norfolk and the Flemish farms at Windsor, and, with happy instinct, established
in 'the year of his marriage the Shaw Farm meant to be set aside for stock breeding and testing improvements. The Prince farmed 2,600 acres at Windsor; 1,800 acres at Osborne in the
 manager at each palmoral. and $\begin{gathered}\text { He hith ead a } \\ \text { he checked the monthly accounts. In } 1843 \text { the }\end{gathered}$ he checked the monthly accounts. In 1843 the
Prince Consort took to showing stock, and if he Prince Consort took to showing stock, and if he
attended $a_{\text {a }}$ Royal Show he would spend hours in the implement yard. He had the mechanical mind strongly developed, and often suggested improvements to zealous stand-holders wanting to
deliver him "the real goods." He pulled the Home Farm at Windsor down in 1852, and then a new one-.useful and not decorative,", as he Shorthorns and Jerseys; on the Norfolk Farm he kept Devons, and on the Fiemish Farm Herefords, In 1848 a Hereford ox won a prize for him at Milk records
Milk records were kept at the Home Farm, were taken note of. Place in Britain where they category as a matter of course.
Farm, Windsor, in 1854, and in 1857 at Shaw Farm, Windsor, in 1854, and in 1857 the French
Emperor saw that herd and the Southdowns and made many purchases for impraving French stock. Queen Victoria carried on the Roval Farms after the Princes death in 1861, and the Aberdeen-
by Her Majesty as a step towar
cattle breeding across the border.
It was surely appropriate that King Edward VII. should make his first official public appearance, when he was ten years of age, at the Royal
Show held in Windsor in 1851. When he bought the Sandringham Estate in 1863 he went right into the business of high-class farming, of course de was still Prince of Wales, but he showed his disinclination to be partizan by establishing three
herds of cattle, i. e., Shorthorns, Highland, and Dexter-Kerries-symbolical of England, Scotland and Ireland. In 1866 he took up Southdown sheep, securing as foundation stock, purchases
from the Duke of Richmond, Lord Sondes and Mr. Webb. The Shorthorn herd at Sandringham came along in 1870 , and to show his wisdom the Prince established Bates blood at Babingley and
Booth blood at the Wolferton Farm. When the eternal Booth-Bates feud settled itself in England the Prince's herds were merged into one-another wise move. The fampilies represented included the
Grand Duchesses, Oxfords, Barrington's and Winsome's as well as Paracon, Diadem and Fleecy offshoots. Bulls 'were, in the course of time, secured from Messrs. Duthie, Deane Willis, and F. King. Celt, a bunl in 1896 and went abrou or one thousand puineas. At a sale in 1896 the average per head realized was $£ 702 \mathrm{~s}$. 9d and in $1900 £ 693 \mathrm{~s} .3 \mathrm{~d}$.
In 1887 the Prince of Wales established his
Hackney Stud, and he took kindly the Hackney Stud, and he took kindly to the power-
ful blood of Lord Derby, Old Confidence Cadet. and Denmark. Match pairs from this stud often sold at 1,000 guineas. The greatest lover of when King Edward died. Has lost to them both
whem further than most men of his day, and, in everything he did, from breeding homing pigeons to Derby or Royal
winners, he was "thorough." minners, he was "thorough.
ing in the wake of his father-i. e., speaking arri culturally. Like King Edward, King George goes among the herdsmen and grooms and has quite a Smithfield Show was to pull the leg of isome a smithfield Show was to pull the leg of 'some right," even if the astonished son of toil quad only stammered out his replies. King George was
the hero of a pleasant little incident at the Shire Horse Show I could not help witnessing. In the final fight for stallion championship Champion's
Goalkeeper, a young horse, was put over Danes- mature, giving a statuesque show and moving like a Spanish galieon. The crowd cheered for the veteran; the judges plumped for the other.
King George went into the ring to give the cup to the owner of Champion's Goalkeeper, Sir Walpole Greenwell, and there was a few moments pause. His Majesty picked his way over the tanthe head of the mighty Stomewall. Jones and
the his king had a real heart to heart tete-a-tete for a good two minutes and one "felt" what was
being said. being said. Jones waxed enthusiastic and shonk
his head at his horse. The King nodded his as an answer. The crowd understood well what the mystic noddings meant and broke out into a big
cheer. The judges looked disconsolate and Jones cheer. The judges looked disconsolate and Jones
got really mate,", with the King, who, when he noticed that he had got the "hall" rocking, went back to the table and gave away the cup to the winner. I saw. Jones sometime after holding a levee of grooms. What did the King say to
you ?, I asked him. Why, he told me I should have wof, and if he had been judging I should have had the cup." And every one in the hall knew that that was what the King was saying to his subject
King George is an all round stock man-he to
day breeds Shires, Shorthorns, Devons, Herefords Aberdeen-Angus, Dexters, Southdowns and Berk shire pigs. Windsor has turned out a host of Royal Show winners, and at the Smithfield and
Birmingham fat stock exhibitions the Royal entries never fail to get into the money-so much so that the daily newspapers record the King's wins and nothing else. The "story" is always sufficient for London's editors. When his Sand-
ringhrain Shorthorns were sold recently-the Windsor herd being considered strong enough-a sum of $£ 4,3503 \mathrm{~s}$. Was secured for 29 cows and heifers and seven bulls. Scotsmen are proud geldie one of the finest herd of "Blackskins" Great Britain.

One Copy Worth a Year's Subscription
Editor "The Farmer's Advocate" :
I consider one copy of "The Farmer's Advocate" worth one year's subscription. It is the
most sensible paper coming into the house and is Head by all. Ond Fo.. Ont. DAS. DAVIS.

## Toronto, Montreal, Buffallo, and Other Leading Markets.

| Toronto.Receipts at the Union Stu |  |  |  |
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| watered, $87.50 ;$ weighecd of cars, 87.75 ,and $\$ 7.15$ \%. \%. ., cars. |  |  |  |
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| REVIEW OF LAST WEEK's MARKETSThe total receipts of live stock at the |  |  |  |
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| The total receipts of live stock at theCity and Union Stock-yards for the cor-responding wook of |  |  |  |
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| light, and trade very quiet durink the |  |  |  |
| week. |  |  |  |
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JANUARY 7, 1915

## THE ROYAL BANK OF CANADA

## Coploal Authorized  <br> 

HEAD OFFICE: MONTREAL Branches throughout every Province
of the Dominion of Canada

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Accounts of Farmers
                unts of Fa
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Sale Notes Collected

Savings Department at all Branches



An Invoice of Self.

## Lot's

And invoice a little while,
And seo it it's doing you any goort
Let's this living year on year.
Lot's find it you've changed for the bet
ter an the seasonfermarched in file;
If things oncesondeaterarched in in itee
things once held cheap aren't dear.
One time you lived for what you could
One time you lived for what you
get of glory nd praise and pelt
Once you were even so small as Once you were even so small as to
woste a thought on saving your
But ouw. it you've grown, you've begun
to see your neighbor as soon as Sourselfi
And now, it you've grown, you're too deen in the geme to waste much
thought on the gool.

The man you hated ten years ago
The man you hated ten years ago-dolnt
you love him a bit today?
For haven't you learned his viewing
or haven't you learned his viewing
point and found the fault in your
own
occuations like these have busied yout
on the way,
This living you've done has not been
vain-you've grown
grown.
Travel Notes. from helen's diar

Intelligent-looking animals, active and
atrong,
roundabout, and although the roads are
which maker has all ups and downs,
and the
One day when I was out dog-hunting
plendid dogs harnessed to a milk-cart
tanged around after that cart for two
mortal hours, but everything was against
me. Just at the propitious moment
when 1 was about to pull the trigger,
so to speak, something always happened,
people would stand in front of me, or th
wagon would drive past, or a small boy
would stand and stare right at the
or a mean-spirited cloud would obscure
the sun
with a
down
It was enoug
am no saint.


The Government Buildings in Bern, Switzerland

| stories told in the papers, but I must believe what is told me by my own Bellered and been eye-witnesses of the most terrible atrocities. The son of a friend of ours here was wounded on the battle field, and while lying helpless a German officer cut off his right hand, saying, 'I'll teach you to fight !' There are nine whose hands were cut off by German soldiers. A friend of ours. a doctor who was invalided home, says the Gerto any dishonor to gain an advantage. He saw dozens of women and children killed by bayonet thrust. The accounts given by the refugees make one quite nick. <br> a public speech began, the Kaiser made Belgium dured to resist him he would |
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Keep Up the Morale of the 'Rural School Teacher

The Secretary-Treasurer told the rural crustee
teacher. Shortly atterwards the latter
listened to a mother admonishing her listened to a mother admonishing her
on, "You will have to mind, now,
nater son, "You will have to mind, now,
Jimmy, for she is Scotch, and will keep
you in order. Those Scotch teachers you in ord using the stick." Whereat
don't mind
Jimmy threw back his head with a deJimmy threw back his head care, I'm
Gant air, and said, "I don't
not afraid of any Scotch lassie!" It seemed to the rural trustee a very
wrong way of dealing with the boy, and not very promising for the future vela-
tions of teacher and scholar: in fact, tions of teacher and scholar; in fact,
something like the conflict between thastria and servia. He felt sorry for
the new teacher and the boy. Iike most fural trustees he had little spare time.
He could not go down to the sehool and Introduce the new teacher and smooth things down. And she was to be there
next day. He had two small hoys who wext day. thing of the perpetual the bad habits and Sad tempers of childhood, and against herited by every child from his long line otrongly when excited by the company of certainly in the firing line. Could she any rate, she could depend on trustees and parents as allies and not enemies
He bethought himself of writing something to be read out to the children, a artent good qualities instead of evil ones. It ran thus:
'"To the Boys and Girls of School No. - : "Just as you turn over to a new page lng over a new page in your lives. There ls nothing written an Are you page ? Mr. Blank (the Sec.-Treas.) and the Trustees have heen to much trouthe to get the best teacher they could for
you. Here she is, ready to teach yon
We want you tor learn all oul can. life spent at schor "The time of your life spent at school
many seem long to yout, but it is really very fhort. Sou can gain, for use later women. It costs your father a goor
deal of money to provide this education forl of money ton't let it be wasted money II you waste your time, you are wasting
In your mach as if your father's money, just as much as
he were to give you a dollar and you he were to give you a
were to go and throw it in the lake. ${ }^{\text {a }}$ 'We want you to be orderly and obedient. Your parents cannot take time to
teach you themselves, and the school teach you themselves, and the school
teacher is in their place. If you disteacher is in their place. "f you dis-
obey her, it is the same as disobeying obey her, it is the same
your father and mother.
"You are very fortunate to live in "You are very fortunate to live in
peaceful country. Many little boys an peaceful country. Many little boys an
girls in Belgium and Frrnce not only have no echools to atternew, but have han

THE FARMER'S ADVOCATE


Typical Street Scene in Bern.
not like it at first, and may feel very after well-planned campaigns. Let
sad. Everything will seem different from keep up the morale of those at the frons The Windrow
able-bodied men in earh county give military service, the rest providing for selected to serve in person at the expense of the county, - the famous "Trained Bands" of the sevententh century. It was not, however, until the
Restoration, in 1660, that the Standing Restoration, in 1660, that the Standing
Army was permanently established. At that time Charles II. retained certain troops which had served him, and added others, for garrison duty, from
Tangiers and other abandoned places

In 1640 all cempulsory service was abolished, and impressing into service ; henceforth, was only resorted to in case life" and in especial cases. The English military force now became
divided into the Regular Army and the divided into the Regular Army and the
Militia for recruits, from which the Militia for recruits, from which the
Standing Army has been largely formed. Standing Army has been largely of enlist
From 1829 to 1847 the term of ent Front was usually for life; subsequently
menlistment Acts were passed limiting
End the time to ten or twelve years, with opportunity of re-enlistment, that of
1870 providing the so long on the colors and so long as Reserve. In this way a large Reserve has been created. Up to 1881 the in
fantry were numbered and known a Reginents of Foot, but after that year
each regiment (two or more batallions) received a territorial title and waa
alloted to a territorial area, one bat talion of the territory being on foreign service as required, and the other an
home to act as feeder to it. the militia.
In 1683 the "Trained Bands," except and the Militia organized in their place. In 1810 the last Militia Ballot was held, althiough the Government may billl use it if necessary. In 1852, by a
Bill introduced by Lord Derby, the sytem of voluntary enlistment was ostablished. The Militia, it may be noted, when raised, was liable to serve in any part of the United Kingdom, but not
out of it. In 1908, however, all the units of militia were taken over an Special Reserve, divided into two aec
tions, (A) one consisting of 4,000 men tions, (A) one consisting of 4,000 men
liable to service in any part of the world. (B) All not in Section A, liable for service anywhere, but only to be called up for service by Royal Pro
tion in case of great emergency.

YEOMANRY AND VOLUNTEERS
(NOW TERRITORIAL FORCE.)
away from her home. Try and mak
her feel at home here. Be to her as it you were younger brothers and sisters
Help her all you can will help you all she can. "People often speak of 'having the time
of their lives." School-time is really the time of your lives. Do your duty
to yourselves, your parents, and your to yourselves, your parents, and your
teacher, and it will then truly be the time of your lives."
"With best wishes to teacher and


How Milk is Delivered in Bern.


 Ag to someone: "I have been getting which enabled a man to provide knights and 1908 both Yoomanry the Militia, and in 1907 n nicely. There was one boy who would to take his place in time of war so became merged in the Territorial Forces, tive me a lot of trouble, people said, but that he might be excused from personal although the Volunteer cavalry still re he has been all right." Later on she service, and in the reign of Henry II., a tain their title of Yeomanry.-Abridged Cold the trustee that she had read the money contribution was allowed in tied asion when most were present, and said ceived being used to pay hired mercenthat the letter certainly made her feel aries who were willing to fight (ollt of at home in her new school. And the lingland if required.
anral trustee, with his mind running on
As time went on, the stem uraduall
shimtlese auderce "sees" new Almost 1,300 blind persons, ranging
 were accepted in-
dividually in aid of the
ballot for the Millitia, but ballot for the Militia, but
later whole companiea
 Military Volunteer Com-
panies, panies, other ${ }^{\text {o }}$. Volunteer
Corps were raised, chielly
 "Fencibles,", which, on
condition of having rendered assistance, were ex-
empt from service in the empt from service in the
Militia, but paid at ReguMilitia, but paid at Regu-
lar Army rates. In 1802,
when Napoleon threatened when Napoleon threatened
England with invasion,
another Act another Act was passed
to authorize the raising to authorize the raising
of Volunteer and of Volunteer and Yeo-
manry regiments. Under
this Act the Yoomanry, this Act the Yeomanry,
then a force of volunteer cavalry, served up to
1901. They were left 1901. They were left
free to enlist as many aan
they chose, but were they chose, but were
liable to be called upon
for service in any Tor service in any part of
Great Britain in case of reat Britain in case of
invasion becoming immi-
nent. in 1901 the Yeobecame merged Volunteer cavalry still re-
athough the Vo
tain their title of Yeomanry.-Abridged tain their
Prom Mritain in Arms," by F. A. M
Welster

## The Windrow

tue mumtisin nayy
 mormer as far back as belore the noert, when all fremen be
man Conquest
ween the ages of fifteen and sixty wer bound to bear arms as one of the condihows of holding land. No body of men, its own county except in case of in
vasion, when it might be sent to any vasion, when it might be sent to any
part of England but not out of it.
After 1066 the feudaliked military system of the Normans was introduced,
each carl and baron being required to
from boys and girls of tender years to per men and women, attended a special performance of "Under Cover" at the
Cort Theatre, $N$. V, recently, and enjoyed to the utmost what was to them
a rare experience. a rare experience. performance before a normal New York audience.
actresses were far as the actors and slighting or abbreviation of either makeup or costumes, and, it anything, the
players exerted themselves more than usual. The same scenic equipment was There was, however, a specially, prepared progran
the sightless.
William Courtenay, who wor the heart
of everybody, declared to A reporter that

## had ever played to <br> know all actors soon tearn the prychgoing to be received. But we don't have to study these people-they hand it right to you. They get points nobody else gets." Next to Mr. Courtenay, the leading lady, Miss Cahill, was the Pavor- te, and one little blind kiri said. ." her ite, and one little blind giri said. "She was beautiful to look at." There were ten There were ten blind people in the theatre between the ages of 72 and 8 , who had never been inside a theatre beWho had never been inside a theatre be- fore. Some of the younger folks were escorted behind the scenes to "sce" the scenery set. nder their new policy of kindly comunder their ment ascr <br> Hope's Quiet Hour.

 logy of an audience and can tell when small like Elice" speaking to hear the "stillSongs in the Darkness. Why are thou cast down, o my soul?
and why art thou disquieted in me ?
hope thou in God : for I shall yet praise
Him.... in the night His song shall be with me, and my prayer unto the God
of my life. - Ps. xlii.: 5 , 8 .
 As through the world at night I heard a sad and mad lament,
On ev'ry cheek were flowing tears;
In ev'ry heart were growing fears. In ev'ry heart were growing fear,
But as I went I bravely sang, But as I went I bravely sang,
For in my heart brave music ran
I sang of iov to ioveless men: I cried, 'Rejoice, rejoice arain!
When first they heard my cheery, wice,
Men mocked we with Men mocked me with my word 'rejoic
Despair is king, they fiercely said
'Let be let he, all hope is dead. They scoffed at me; at them I smiled: For savage words I ga
And on I sang as on 'Relent, sad hearts,' I suid, 'Relent!' I spoke to Hope: she said, I'm here
I spoke to Joy: she said, I'm near.
And then together sang we, 'hree And then together sang we three
As though no man had wailed I.et be
Throughout the world Throughout the world cur song was heard
And joy and hope in all hearts stirred.
And ere I reached the Worning I and And ere I reached th
My song became a

It reveals the fact that the thetheet singer of stanel was passing throuph a time of great afliction. ni...ars have beene my

meat day and nigh, " he says. whilic
they continually say unto mo., Where is
 and waterspouts threaten to overwheling
him. I say, it is a wonderful phallu,
for though God socms ready to slay thin


 His Presence, and there is no outward
sikn that His promises atout hearing and answering trustful prayers cau be our own fault. (iod has declared, over the prayers of those who are not trying
to obey His laws. He has also made the answering of our pravers largely dewe "agree tourether" faith ask fort, when ing of this terrible cloud that has
brought a thick darkness on all the earth, when we know that it is God's Will that the nations should live in peace
with each other, and yet our prayers are
apparently unheeded, what are we to dor Of course, we are to pray and trust on.
if we only trust God in the sunshine weIf you are in the darkness of hopeless-
 say it in mockery or in hopeless despair, the touch of His hand in the darknes
as the pravers of millions rise nightit and will always bring sweetness and th
day for peare, andl (ioul makus no sign winse of security into
$\qquad$
$\qquad$
$\qquad$
$\qquad$ seems as if cod were paying no atten- He is my shield, and the horn of my
tion to our prayers, when we cannot feel salvation, my high tower, and my refuge, my Saviour, Thou savest me from vin-
ence.. -2 Sam. xxii.: 2 , 3.8 How he
nultiplies the images which speak of inultiplies the images which speak of
God as a sure Refuge in time of war: In that Stronghold salvation is
ts touch is confort in distress Cure for all sickness, balim for ill,
And energy for heart and will. The soul can walk at ease, and sing. And fearless tread each unknown strand,
L.eaving each large thing, and each less,
Lord, in Thy Hand

to send me $\$ 2$ for the needy. 1 shall
be able to brighten many sad hearts
with donations from my "paper triends"
this Christmas. If the "reader" whis sent me a dainty bunch of pressed flowers
will let me have her name and address will let me have her name and address,
I/ will gladly answer her letter. $\mathrm{D}, \mathrm{F}$.
Gifts for the Needy. Money for Christmas cheer
pouring in from our readers pouring in from our readers thi
mas-tide.
During the last ten reader sent $\$ 7$, one sent ${ }^{2}$, one sent $\$ 3$ three sent $\$ 2$ each, and three sent $\$ 1$
each. I have been given the pleasure of "passing on" your kindness in the form
of Christmas baskets (well filled with) Christmas baskets (well filled with
food) to 14 needy fanilies, and 1 also
sent a Christmas donation from you to ance. who are almost entirely without
funds. and are beink cared for in various,
hospitals and institutions. Some of These are blind or otherwise incapacitat-
ed. without hop.. of recovery; others are hoping some day the arn their cwn
living.
As I saved up your donations which
reached me some weeks before Christmo reached me some weeks before Christmas,
it was possible to help all these people
whom I know well-and also to keep on hand $\$ 6.50$ for future use. Many people
are helping the poor at this season, but
later on in the winter there is certain to

$\qquad$
$\qquad$
 this amount 86i, was sent in fivedoliar sent generous, gits sturing this year, twice
a very large proportion of the whole sum was given anommously, or the whole sum
Your kindness has brightened many
darkened livers, and thank ' for your truntul confidence in me.
ave tried to be a faithful steward. org that I and yours. answerable to my
nope.

Another Christmas Gift
ate for Christmas, day, but use it a
ou deen best. Wishing you a happ Christmas, and hoping that the peace iod may control our hearts this Christ nas-time, I am ONE OF HIS LITTLE ONES, The above has just reached me. I will
Iadly carry the Christmas gift-in the shape of some warm stockings and othe clothing-to some little girls I know. vears old), and they all sleep in one bed so keeping warm. A little brother ar

## Fashion Dept




Gate in which issue pattern appeared mumbers appear for the one suit, if two hust be sent. Address Fashion Depart Heme "The Farmer's Advocate and sign your name when ordering pat any forget to do this.
Send the following pattern to:

Sumber ot patter
$\qquad$


## 842 Ihlowe with Vest Etect, 34 to 42 bust.



design by May Mantono 84＊0 Plain Waist for Misses and Small
Women， 16 and 18 years．



8105 Fancy Blouse， 34 to 44 bust．
841 －A Circular Cl：irt， 24 to 34 waist



[^1]








 and

L.The Belgian Refugees.


IANUARY 7, 1915
THE FARMER'S ADVOCATE.

News of tho Week
 meanere teame tho sumatard tor durus
 20,000 saddles from Canadian manufac-
curers.
It has been ascertained that 201 men, It has been
ut of a crew of 780 , were rescued when
un Pre- wreadnought ".Formidable," "was ant
$\qquad$
$\qquad$




$\qquad$
$\qquad$
$\qquad$ naving defeated the Russians at Yead'
han, north-west of Kars, on New Year's
Day, and at Sovechbulak in Northern Pay, Towards this point, however,
Pritish-Indian troops are advancing as TheBeaverCircle OUR SENIOR BEAVERS.

$\underset{\text { For all pupils from Senior Third to }}{\text { int }}$

Soap Bubbles



A Trick With Numbers.
 some one first to choose a number; sec-
ond to ard together the digits compos-
ing it; third, to subtract this sum from
the original number: fourth, to drop out any one figure from the remainder, and
filth, to tel! you what he has lett.
Ry adding together the figures that he Eives you, and subtracting this sum $\begin{aligned} & \text { I ann in the senior third class, and I an } \\ & \text { from 9, or from the first multiple of } 9 \\ & \text { eleven years of age. I wish your Circl }\end{aligned}$
el

 is 21 . This you subtract from 27, , the 21 ,-and discover that 6 was the figure dropped out. it will take your friends
a long time to find out how you per-
form this marvel.-Youth's Companion.
Funnies.

| Willie was struggling through the |
| :---: |
| story in his reading lesson, relates, an |

so exchange. "No,' said the captain," he
read, "it was not a sloop. It was a
larger vessel. By the rig 1 judged her
to be a-a-a-a-a-". The word, was new to him.
"Barque," supplied the teacher.
Still William hesitated. Still William hesitated.
"Barque !" repeated the teacher, this
time sharply.
Willie looked as though he had not
hene lok with a timid plance heard aright. Then, with a timid glance
around the class, he shouted:
"Bow-wow I"
Senior Beavers' Letter Box. Dear Puck and Beavers,-As 1 am a
reader of the letters in your Circle, 1
thought I would like to be a member also. I go to school very faithfully,
and will be trying the entrance next
midsummer, but am not sure whether they will let me through or not. If
guess 1 will do as the people say, "If again." I was away to Toronto and
Hamilton, a week at each place in the summer holidays. When I camé home
went to a town about twenty miles from our place. We live twenty-five
miles from the city of Toronto, and onehalf mile from the village of Sand Hill. he will say it is too long, and of cours
that hungry w.-p. b. will be handy, an in it will go. I would like if some of
the Beavers would correspond with me. sand hill Preel Conemit Mckeown. Dear Puck and Beavers,-This is my
$\qquad$ thought I would write again. M cate" for three or four years and likes lettery written by the Reavers. I live
on a farin. For pets I have a kitten


## Ghiclets <br> really delightful THE DAINTY MINT-COVERED CANDY-COATED Chewing gum <br> Will prove your best companion in the long better combination than a glowing wood fire, a cosy chair, an absorbing <br> book, and <br> $\mathfrak{C b i c l e t s}$ <br> made in canada <br> A Quick Hair Restorer

| The Princess Hair Rejuvenator does ite work quickly and satisfactorily. It has |  |
| :---: | :---: |
|  |  |
|  | ents, neither greasy norsti |
|  | half gray or faded hair to original color in ten da price postpaid. |
| x | Superfluous Ha |
|  |  |
| Send stamp for booklet " $F$ " and sample of Hair Rejuvenator. |  |
| Hiscott Dermatological Institute 61 Colloge Street, Toronto. Estab. 1892 |  |
|  |  |

The Realite Electric Lantern



- rnazzen avenue AIt "arlincton collars" are good,
but our CHALLENGE BRAND is the best made in canada


## funume

Buy St. Lawrence Granulated Pure Cane Sugar in original packages, and get pure, clean, perfect sugar.
\$31 BUYS 1 TON $\underbrace{\text { COOD }}$

Crampsey'\& Kelly, $\begin{gathered}\text { Dovercourt Road, } \\ \text { TORONTO }\end{gathered}$
YOU CAN BE A NURSE
Yo paitively yuarantee tot train you ty your own


| What is the best kind of a ship? Ans -Friendship. Ont. <br> Beaver Circle Notes. Harvey Hart wishes to become have to do, Harvey, is to write a letter ber. E $\qquad$ write wishes some write to him. | O.A.C. NO. 72 0ATS <br> FOR SALE <br> Grown from hand picked seed carefully weeded <br> as is po Report <br> to have ther one noxious <br> sample rty bush. <br> record $\qquad$ $\qquad$ <br> Markham, <br> A. FORSTER <br> Ontario |
| :---: | :---: |
| OUR JUNIOR BEAVERS <br>  , <br> A Good Appetite | $\begin{aligned} & \text { Hex Wan } \\ & \text { wrute } \end{aligned}$ |
| $\begin{aligned} & \text { I have a whole menagerie } \\ & \text { My grandma bought for me, } \\ & \text { And when I'm very hungry } \\ & \text { I'll eat them for my tea. } \end{aligned}$ | $\begin{array}{r} \text { long I will close, wishing the Beaver } \\ \text { Circle every success. } \\ \text { BRITTIXNIS DENYER. } \end{array}$ |
| And next the hippo |  |
|  |  |
|  |  |
| Junior Beaver's Letter Box. <br> Hear Puck and B |  |
|  |  |
|  |  |
|  |  |
|  |  |



The Ingle Nook.


Lear Ingle Nook Friends, -This screed
will scarcely be a "Sartor Resartus,"
although it may be, to some extent, a
philosophy of clothes although it may be, to some extent, a
philosophy of clothes, and old clothes at
that.
In a departmental store, the other
day, I asked one of the clerks whether the war was affecting business very
much. "Well, yes," he said, "we can notice a difference. The girls in the
tailoring department are just poking
along along. People seem to be making their
old suits do." From the standpoint of keeping busi-
ness up, it looks as though well-to-do ness up, it looks as though well-to-do
people are making a mistake in carrying "making old things do" to an ex-
treme. To refrain from buying here in
order treme. To refrain from buying here in
order to send things abroad without making any diftrence in the bank acd
count, means, in our own countr, fac-
tories on half-time, clerks discharged, Lories on half-time, clerks discharged,
reduction in salary, a horde of out-ot-
work folk, and widespread misery
wol amounting, even to starvation. And the
cold of winter makes conditions so much
norse cold of winter makes conditions so much
norse. In the city, every day, one
hears of such pitiful tales. Only the
other day, for instance, a man came in. other day, for instance, a man came int
to our office looking or work. "I don't
want charity." he said, "I only Want
work I I have tried in all the shops and factories and there is nothing thops do.
I tried to enlist, but they would not take me because I am beyond the age
limit. How can I keep soul and body together it nobody will give me a chance
to earn my living?" So the story goes, and it would seem
that the rich folk could stem buying as usual, and then giving of their surplus to the soldiers and the
Belgians, even at the cost of roduct Belgians, even at the cost of reducing
the long total in the bank book. This
would be true patriotism At the same time there are many peo-
ple, less favored ple, less favored, who find it simply im-
possible to buy imuch this year, however posstble to buy much this year, however
much they may wish to encourage home
industry. The war hac afiveter mevistry. The war has affected people
everywhere, and some have been so everywhere, and some have been so
"hard hit," if one may use an expres-
Xevertheless woman would not be wo-
man if she did not want to be "ar
smart as she can," even with old
man if she did not want to be "ar
smatr as she can," even with old
clothes; and it seems especcially fortun-
clothes: and it seems espeecially fortun-
ate that the fashions this year give
an unusual chance to "anr auld things
luik amaist as weel 's the nex
Thk amaist as weel 's the new."
Tunics, with skirts sleeves and yokes
"different."
"different," make it possible to com-
bine two old dresses into mones
bine two old dresses into one or
fashion a gown with the addition
fashion a gown with the addition
comparatively little new material. Fo
instance, two old dresses, one black, For
other black, geeen and blue plaid, were
combination gown, the skirt, sleeves and
cumpe of the plaid, the body of the
waist and the tunic of the black bright.
ened by some old-fashioned jet buttons
quite down the front. The yoke effeedt
tunities. When it is is desired to to oper the
tunic and so make it ine
skirt which se make it into the wider
narrow for the near future: while old
narrow skirts give endless. possibilitles.
with a a little cleaning and furnishing for
"new" underskirts. Have you ever
tested the possibilities, also, of an old
velvet dress, in making "new"
Almost any old velvet gown will afford
good material enough to make one of
the little soldierish hats so much in
vogue this winter, and old flowers for
Crimming may be made to look for
modern by touching them up with a
ittle artist's tube palnt and turpentine
Just one more item this time. Have
busing a pair of rubbers with every new
pair of shoes? An ill-fitting rubber
cracks at the heels with two or three days
wear, whereas a pair that fits exactly
should give many weeks of even hard
cighte-five cents per pair, instead of the
forty cents of the good old "cheaper"
Hears, this fact is worth noting.
Have you any more hints to "pass on.
according to the W. I. Motto?
coohinc: the cheaper cuts of
Many people have become so ac-
ustomed to the choicest cuts of meat
sirloine porterhouse and tenderloin, as to
be quite averse to trying the cheaper
ones, and, indeed, as the cheaper ones
are usually prepared, there is
are usually prepared, there is a good
deal of excuse for the prejudice.
The
best cuts, having short
paratively hares, are com-
paratively hard to rutn in the cooking,
the cheaper, long-fibred portions, in the
the cheaper, long-fibred portions, in the
hands of a cook who does not know
her business, are almost uneatable.
hen
That does not alter the fact. however
that, with proper treatunent these long.
fibred parts may be made very ap-
nutritious as the more expensive por-
tions.-a fact which should not be over-
looked during the times of financial
It is generally known-or should be
among all women who cook-that meat
of any kind should be rapidly seared
all over the surface with
all over the surface with a very seared
heat at the veng
very first of the cooking
hent at the very first of the cooking
operation,-hhis to retain the juices and
faver which would otherwise escane
winter Wardrobe. And it was really
true. With last year's winter gowns true. With last year's winter gowns
she had to make what shift she couldit was not. a matter of scare economy-
two-thirds of her income had gone two-thirds of her income had gone. But
there was neither gloom nor seriousness there was neither gloom nor seriousness
about her. She was just going to he as smart as she could."
It takes a bit of heroism to make a last year's outfit "do" through another season or two-if one has been ac-
customed to getting new thiy every
vear-but, when one has come to thit year-but, when one has comef to every
stare at which one can make a sacrifice.
smilingly there is a satisfaction in smilingly there is a satisfaction in it
too. It becomes so plain, then, that too. It becomes so plain, then, that
these comparatively trifling things do these comparatively trifling things do
not really count for so very much after ant One's real friends will never "go.
all
back on one" far the sake of an old back on one"" far, the sake of an ofd
dress,-and for the rest, what matter?
$\qquad$

$\|$


## Buy High-Grade Flour <br> MAKE the best you've and pastry you ve ever tasted Prices of flour and feeds are listed below Orders may be assort ed asdesired. On ship ments up to 5 bags buyer pays freight charges. On ship ments over 5 bags we will prepay freight to any station in Ontario east of Sudbury and West of Sudbury and New Ontario add 15 cents per bag. Prices are subject to marke <br>  change

## Cream 앙 West Flour the bard wheat flour that is guaranteed for bread

GUARANTEED FLOURS Gream of the Weat (for bread) Oueen City (blended for all pu FEED FLOURS
Tower..
er 98-lb. bas
cereals
Cream of the Weat Wheatite (per 6-1lb. bas
Norwegian Rolled Oate (per 90 -1b. bas)
Tamily Co Rolled Oate (per 90-1b
FEEDS
Bullruah Bran
Extra White Midd dining
Whole Manitoba Oate
Crushed Oata
Chopped Oata
Wrotco corn
Gract
Freed Cornmeai.
Whole Feed
Barley Meal.
Oatmaline
Geneva Feed Cruished Corn
Oil Calke Meal (old process)

- Special prices to farmer's clubs and others buying in

The Campbell Flour Mills Company Limited (West) Toronto


Villa View ând Fairmont Holsteins Sexibe neme gita kimy Weil





|  | tingers held tight in hi- strong, br hand. She could get closer to him this position, she always told him: hands and cheeks were the potes of battery between which tlowed and flasher the vitality of two sound bodies, through which quivered the ecstasy two souls. <br> Suddenly the thought of Ciarry and What he had been, in the days of his crush the lives about him cance to her Could she not find some eacuse for him something which she might use as he: own silent defence of him in the year that were to come? <br> - Do you think Garry was ont of mind, Jack? He's been so depressec tately?" she asked, all her sympathy it |
| :---: | :---: |

PETER.

A Novel of Which He is Not the Hero.


$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ Chis hand to guide her? She made nc answer. She had never thought about
these things in that way before, but she
would now Misstul just to have him lead her, he
who was so strang and whose vision was so clear, and whr
never dwelt upon the little issues. Anc it was such a relief to ruach up her her
arrms and kiss him and say, "Yes
blessed," and to heol and blessed," and to feel herself sulfe in his
hands. She had never been able to di
that with her father
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IANUARY 7, 1915


THE FARMER'S ADVOCATE.

## $\$ 120,000$ Saved By

Canadian, Families Last Year


Twelve hundred SHERLOCK - MAN-
NING instruments went into Candlan
homes last rear each representing a saving
to the purchaser of fully 5100 .

 erallich We bey hild each sHERLOCKK.
MANNING piano to last-construct it so


Sherlock-Manning 20th Century Piano
"Canada's Biggest Piano Value"






The Sherlock-Manning Piano Co.
ONDON (No Strezt Address Neecesary) canada


You have only to add boiling water. No troguble with coffee-pots or straining. And not only is "Camp" the quickest-made coffee, it is the finest-flavoured, and by far the cheapest.


NEW GOAL OIL LIGHT BEATS ELECTRIC


When Writing Mention The Advocate

28
THE FARMER'S ADVOCATE.


Is it three hours to town in a buckboardor thirty minutes in a sturdy Ford? More than seventeen thousand Canadian farmers
drive Flordls because they make the necessary trips to town during the busy season in the shortest possible time-at the smallest possible expense-and they don't eat when they aren't working.
Ford Touring Car $\$ \$ 90$ Ford Runabout $\$ 540$. Ford
Coupelet $\$ 850$. Ford Sedan $\$ 1150$. Ford Town Car $\$ 840$. All cars sold fully equipped f. o. b. Ford, Ont.)

Toreal
Motor Gomprany
$\geq$ SHard
USTIR GISOTIT ATITIT
SECTIONAL VIEW


Labor saving, money saving and time saving features found in no other engine.

Write for Catalogue $G$ which also gives particulars of
LISTER LIGHTING PLANTS, MILKING MACHINES, GRINDERS AND MELOTTE CREAM SEPARATORS
R.A.LISTER \& CO., LIMITED 58-60 Stewart Street, TORONTO, ONT.

## Running Water On Every Floor! <br>  <br> EMPIRE MFG. CO., LIMITED <br> 1200 Dundas Street, L.ondon, Ontario





The Alsike Situation. Ontario alsike seed is ushally sold in
large quantities to the European. market.
The demand from this source is now The demand from this source is now
greatly reduced because of war conditions. Ontario growers should note that
the present stability in prices is due to the much sualler production in the Province this season. A big crop nex
yenr, with continued war conditions, might cause a heary drop in the market. Ontario alsike growers would be well ad-
vised to save seed only from specially clean tields.
DIStrict seed - Growers' assoDISTRICT SEED - GRONERS' ASSO-
CATIONS.
Superior seed stocks produced from tiine to time stochs Eperimentenstations
may be multiplied tor conmerce under
may the direction of the Canadian Seed-
growers' tssociation. The growing seed
crops crops of members are inspected and re-
ported on generally by oficers of pro-
vincial Derartuments of A Ariculture. Vincial Depart ments of Agriculture. The
cleaned and graded seed which comes up to the standard-no impurities, and 95
per cent. germination - is inspected and sealed in sacks under registration num-
ber by officers in the employ of the Asser by oficers in the employ of the Rs-
sociation. But the quantity of regis-
Lered tered seed, though increasing yearly, is
yet reltatively small yet relatively small, hence the recent
organizations of District. Associations for organizations of Dist rict Associations tor
Easter and wester ontario, each under
a directorate which includes a prominent grower of each kind of seed crop. These
associations have drown out of associations have grown out of commit-
tees of management of provincial seed Exhibitions at Guelph and Ottawa. They
nim aim to assist individuals and organiza-
tions concerned in tho tions concerned in the production, exhibi-
tion and sale of hightclass farmu and




## Gossip.

The tith beekeeping short course will
be held to the (ontario wricillum be held at the intario Mericultural (oot
lege January $12-23$. Xo fees will be charged, and no examination held. Stu-
dents should reach the college on Mon-
 and most of the hecturesten will beparea, illus
trated with lantern slides and the actuay trated with lantern slides and the antual
objects inder tivension.
ested should write ans an on onco for inter-
$\qquad$ Established over 30 years, and manared
by a business man on business principles,
whose
 breeding could never be attained through
the use of interior sires, the waple
Grange herd ont Che use of interior sires, the Maple
Grange herd. of R t. Doyle, of Owen
Sound, (ont.. has durinct all theo

 which is tar enough to po bank to ionter-
est modern breaders. of to-das. the sire used were the lrawith ordas the sires
Abel (imed Golden
 (imp.): then ceme the thit -rovel Rruce
Revant
The timp.), which is still in service.




Questions and Answers. Miecolliancous.
 ers paper, and would like to know some hing about the particulars regarding the ess leathers. With the price of har hides and harness leathers of about 50 on per pound, there must be an opportunit. ness. The farming industry in the Prow ince of Quehec has areatly improved dur
ng the last few years, but the manufac turing industry is not equal to that .. Ontario. It has been said that necessily ing the mother of invention. 11 l
fresent situation in Europe. it looks if Canada will have to provide her own you tell me, through your paper, some and the cost of a tannery plant larra enough for tanning four or five thousand
hides in a year. hides in a year. Hemlock bark is great
ly used for tanning hides. ber lands with good quantities of hemlock bark, so can furnish my own bark of hides being shipped from this section casons for a tannery there are numerous his section. Ans.-We cannot give details regarding would advise that you get in touch with some tanners and learn from them the cost of machinery, etc., to operate We feel sure you could get necessary in-
ormation in this way. Also touch with some big dealers in let in
goods. There should be a rood Gasoline En
 2. Which whuld be the miost economical, "1, pulp water for a small irrigat
ing , want whin a six-horse-power engine
and grind grain with a medium me a simall outhit for the above purpose
liree-horse-power being plenty power th 3. What mixcure of fertilizer would be
most much per acre- potatoes, onions, how
tomatoen This is for field competigard, and land intended for it is coocd 4. Whecs the word marine mean every
man in the nayy or just those who take
part in the actual fighting ? and marines on the same man-of-war:? apears rather three-horse-power engine
fou can do it, of course grinding grain Which is sit, of course, with a grinder with that power of nngine, and makers of prinders would recommend to yous 2. We have seen a 3 ,horse-power gaso-
line engine lifting water 80 feet, and pumping it with water 80 feet, and
the same sitroke agree with you that a three-horse-power requires more power, and where you have hoth grinding and pumping to do. wi ase a larger engine. or its great scarcity this coming spring, of fertilizy hard to recommend mixtures
 hitrate of soda, s.in pounds acid phos

JANUARY 7, 1915


THE FARMER'S ADVOCATE.


## FREE-FARM Account Book

## Know How Much You Make This Year



 , 19

"Knox Sloop Sleigh" $\$ 24.00$
any $\frac{R}{}$ R. . Station East of Fort
any R. R. Station
NORMAN S. KNOX, 47 Wellington St. E., Toronto, Ontario

## CLYDESDALES <br>  

SHIRES, SHORTHORNS
Quality in Shire Fillies, and one two--rear-old Stallion. Shorthorns of all ages. A very choice la
of young bull, three from our Show Cows and our present stock bull.
 Imp.-Clydesdales, Stallions and Fillies-Imp.


IN WINTER
While time and opportunity favors

a permanent cure can be made with | a permanent cure can be made with |
| :---: |
| Save-The-Horse. 19 vears a |
| ascoess | Save-The-Horse. 19 Years a Sucess,









145 van Horn St., ${ }^{\text {TROY }}$ CHICALCOM,


UABSORBINE TRADE MARK REG.U.S.PAT. OFF. Thickened, Swollen Tissues,
Curbs, Filled Tendons, Soreness from any Bruise or, Strain:
Stops Spavin Lameness. Allays pin Stops Spavin Lameness. Allays pain.
Does not Blister, remove the hair or lay up the horse. $\$ 2.00$ a bottle, dehvered. Book 1 K free.
ABSORBINE, JR
ABSORBINE, JR., the antiseptic lini
ment for mankind. For Synovitio, Strains Gouty or Rheumatic deposits, Swollen Painful Varicose Veins. Will tell you more if you write. $\$ 1$ and $\$ 2$ per bottle at
dealers or delivered.
Manufactured only by
 Clydesdales
 Dr. Bell's

## Questions and Answers.

 Miscellaneous.A Stallion Enrolment Query. Would you please let me know, through
your valuable paper, why a pure-bred


 consists of ensilage, straw, oats, barley
nnd some grass hay. 1. Would you kindly tell me, througl the columns of your váluable paper
what is required for a profitable ration for producing milk, beef, and growing stock? What would be required, an
also what quantities of it to balance the ration for feeding the abovementioner
stock? 2. Is oil cake good for horses, and
how much should be fed duily? 3. Is oil cake profitable to feed hogs?
if so, how should it be fed? I. N. P. Ans.-1. The quality of these feeding
stuffs demonstrates very strongly the advisability of growing legumes on the
farm. To make what might be considered a balanced ration for dairy cattle quires an additional five pounds of pro-
tein-rich foods to make a ration that practical feeders or scientists would conrecommend the following as a ration combined in such a way that the nutri-
tive ratio has one part of protein to about six and a half parts of carboly-
arates and fats. This is considered
drat plenty wide for a dairy cow, or in other
words. quite sufficient amount of carbowords quite sulficient amount of carto-
hydrates and fats for the namount of
protein contained therein. The ration
is as follows. 10 pounds of hay. is as follows: 10 pounds of hay, ${ }^{1}$
pounds oat straw, 40 pounds silage, 2 pounds cottonseed meal, 2 pounds bran!
2 pounds oil-cake meal, 3 pounds of oat: is ration marley. Thook exceedinely part lar, e pound of grain for each four ponms

## IMPORTED PERCHERON

Stallions and Mares
We have a larger selection of Percherons than any other firm in Eastern
Canada, and our barns contain more prizewinners at the leading firs all others combined. No advance in prizees, although the source of supply

Hodgkinson \& Tisdale, Beaverton, Ontario Bell 'Phone 18

## CLYDESDALES AND PERCHERONS



T. H HASSARD,

MARKHAM, P.O., G.T.R.
1914 Stallions-CLYDESDALES-FFilies 1914
Our 1914 importation are home. Stallions and filliees especially selected for Smith \& Richardson, Columbus P.O.

Brooklin G.T.I
A few choicely-bred young stallions always on hand and for sale BARBER BROS

GATINEAU PT. OUR
Royal Oak Clydesdales Present offering: 5 Imported Mares (3 with

JANUARY 7, 1915


Ormsty Grange Stock Farm Ormstown, P. JUNGAN Meaf Chrin. proprietor
Clydesdales and Shires
$\frac{\text { Correspondence Sollctited }}{\text { For Sale }{ }^{- \text {The }} \text { Aberdeen- Andus bull. Sam. }}$


| thy herd. |
| :--- |
| R. No. 3, MAM MULHOLLAND, MITCHELL, ontario |

Beaver Hill Aberdeen - Angus Choice young Bulls fit for se se.
Fenales all ages, for sale.

Tweechill Aberdeen - Angus
 Strawberries, $\begin{gathered}50 \text { varieties; } \\ \text { varieties; } ; \text { Seed } \\ \text { Raspberries. } \\ \text { Potatocs, } \\ 10\end{gathered}$ arinties. Free Catalogue.
H. LHE LAKEEIEW FRUT FAPM
HcConnell $\&$ Son, Port Burwell, On

THE FARMER'S ADVOCATE

Questions and Answers. Miscellaneous.

Curing Skins.
Kindly tell me how to cure a inuskrat
G. E. .r.
-kin so I can use it.
Ins.-This question has heenn answere
on many times this past season to war ton many times this past season to wa
rant spare at this time. Refer oo pag
1891 in the issue of October 29 ? 1914 .

Holidays.
Being a reater of "The Farmer's Idvor
cate" I would bo glad to have an an-
swer to the following questions: wer to the following questions: 1. What are the legal holiday's durine
he year for a hired man on a farm? 2. Cun I claime every Sunday off from Ans -1 Sundays, New Year's Day,
ood Friday, Easter Monday, Victoria ay, Dominion Day, Labor Day, Thank
fiving Day, Christmas Day, and an lay appointed by proclamatio
feneral fast or thanksgiving.


Spring Grain Re Geese and Ducks. 1. Will you please tell met spring grain is the best to sow on
ite fall plowing, also old sod plowed in
pring ? Can 1 grow peas or barley al
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ Willow Bank Stock Farm $\begin{gathered}\text { Shorthorns and Leicester Shoepp. } \\ \text { Herd eatabished } \\ \text { 1855: flock } \\ \text { 1843 }\end{gathered}$
 of both sexere to offer. A.
imported ises and dams. ames Douglas, Caledonia, Ontario,
 passed. A nice selection in young bulls, and a limited number of thick,
R. J. Doyle, Owen Sound, Ontario
 ight nice yearing Telehone Geo. Gier \& Son R. R. No. 1, Waldemar, Ont.
Northlynd R.O.P. Shorthorns and Jerseys
 Meadow Lawn Shorthorns Have tor atal everam wel bred young bull


 Soll


IRVINE DALE SHORTHORNS

J. Watt \& Son :: Elora Station $\quad: \quad$ Salem, Ontarie

10 Shorthorn Bulls, 9 Imported Clydesdale Mares

Bell Telephone.
Burlington Juncton, G.T. R., $1 / 2$ mille.
SALEM STOCK FARM HOME OF TH
 J. A. WATT, is only thirteen miles from Guelph. Three Trains daily each way ELORA, ONTARIO H. SMITH - HAY P.O., ONT.

12 SHORTHORN BULLS and as many heifers for sale Write your wants.
G4T GLENGOW SHORTHORNS

## OTTAWA WINTER FAIR OTTAWA

January 19, 20, 21, 22, 1915
Eastern Ontario's Great Winter Fair.
Most modern and completely equipped Winter Fair Buildings

## $\$ 12,000.00$ Offered in Prizes

## Entries close January 8th, 1915.

JOHN BRIGHT; President, W.D. JACKSON, Secretary ottawa, ONT.

BP - THE MAPLES CHAMPION HEREFORDS
For the month of December, to make room, we will auote special pricee on
IS young bull, some Toronto winners among them; also females any age. W. H. \& J. S. Hunter ${ }^{\text {Write }}$ for prices on one or a carload. ${ }_{\text {R.M.D., Orangeville, Ont. }}$ 1909 Canada's Champion Hereford Herd 1914 For the above six years at the leading shows from Toronto to Edmonton my herd has
maintained its supremacy abe the champoion herd of Canata; American and Canadian OSHAWA. ONTARIO

## ROSEDALE STOCK FARM <br> SHORTHORN BULLS 20

Some of them fit to head the best herds in the country Some are from heavy milking dams. Six are from imported dams. G.T.R.

## 


$\qquad$



The Milker with the PROGRESSIVE
VACUUMAND IADEPENDEVT


Price $\$ 50$ per unit H．F．BAILEY \＆SON

Why Suffer From Chilblains


## SHORTHORNS


 lines；prices casy，Write me your wants．
STEWARTM．GRAHAM䍗



Oakland－－61 Shorthorns
 Jno．Elder \＆Sons．Hensall，Ontario
Spring Valley Shorthorns


[^2]Free Short Course in Horticulture．


Cells twonls maney paid in watee
$\qquad$


## BULLS AND FEMALES

> hand. We have nothing but the best Scotch amilies to choose from. Our cows are good milkers

A．F．\＆G．Auld，Eden Mills，P．O． $\begin{gathered}\text { Gualph } \\ \text { Rock } \\ 5\end{gathered}$
Robert Miller Pays The Freight

ROBERT MILLER $:: \quad:: \quad$ STOUFFIIIIE，ONT
Escana Farm Shorthorns ${ }^{-1} 10$ heal in the herd which is headed be the notect
Mitchell bros．，Props．，Burlington P．O．，Ont
PLEASANT VALLEY FARMS SHORTHORNSSHORTHORNS and CLYDESDALES $W_{c}$ mive miwe
1．B．\＆T．W．Douglas，Long－Distance Phone Strathroy，Ontario
$\qquad$


JANUARE 7, 1915


Cotton Seed Meal Good Luck Brand Guaranteed 41\% Protein. Write for quotation e
4. PRALEIGH,, Boz 1, forest, ont.

Also dealer in Flax Seed and Linseed Meal.
Ridgedale Holsteins


War! War!! War!!!
The Norfolk
Holstein Breeders' Sale
Simcoe, February 11 th
Great Yearling Holstein Bull For Sale



Maple Grove Holsteins

$\qquad$
The Maples Holstein Herd

 Walburn Rivers, R. R. No. 5, Ingersoll, On
Alancroft Dairy \& Stock Farm beaconsfield, p. Q., CANAD
$\qquad$ Purebred French-Cana
Bulls for Sale. respondence or visit
Merchants Bank Building, Montreal' Canada Dungannon Ayrshires

Prize-Winning Ayrshires For Sale
$\qquad$

## THE FARMER'S ADVOCATE.

Questions and Answers. Miscellaneous.


Bitter Milk.
Could you tell ie what makes the milk
go bitter utter standing tor 24 hours?
We teed silage and grain We feed silage and grain. We milk be-
fore feeding. ore feeding
Ans.-Bit
$\qquad$
$\qquad$ possible to say which without an exami-
nation of the milk ittect. There are a
number of different number of different bacteria, and at least
one species of yeast. which have this property of producing bitterness. The
the
source of da ty source of daily seeding of the milk probthough the germ may possibly be derived
from the teats, growing just within the teat opening. It would be advisable the thoroughly clean all dairy utensils,
pitchers, etc., and sterilize them by boil-
ing ing, or by a prolonged use of boiling
water. Also, thoroughly cleanse the
milk shelf, and heep the milk on the
shelf nuns from other shelf away from other foods. If. aft
repeating this for three or four days th
bitterness continues, it is pale bitterness continues, it is sale to assume
that the infection comes from the cow.
In such a case, it would be found almost
impossible to get rid of the trouble. Will he free from the infection when she

Barn Construction.

Hamilton Farms, St. Catharines, Ontario
OURVILLE STOCK FARM
offers: Five bulls ready for service, sired by Royalton Korndylke Duke, whose dam silo LAIDLAW BROS. $::$ R.R. No. $1 \quad::$ AYLMER, ONT.

## MADE IN CANADA

mum man
WILLOW BANKS HOLSTEINS

P.D. McARTHUR'S AYRSHIRES



## 60 Registered Holsteins 60 <br> Head BY AUCTION <br> Head

## A complete dispersion of the Woodbine Herd

Wednesday, Jan. 20th, 1915
We have in this sale the results of 30 years breeding and careful selection, they are nearly all young; 30 are sired by Duke Beauty Pietertje, a son of a 32 lb . cow, and a G. son of a 30 lb . cow; he is backed up by 3 generations of 30 Hb . cows. A number of others are daughters of King Segis sister to the World's Champion, KP P Pontiac Lass, 44.18 tbs this kind of breeding has cost us a oof of money but it goes this kind of breeding has cost us a pill meet the CP R Trains at Ayr. The G.T.R. Trains and Electric Cars from Gall and Brantford, at Paris
Terms :-12 mos. on Bankable Paper, $6 \%$ off for Cash. For Catalogue write.
A. KENNEDY \& SON, R.R. No. 2, PARIS, ONT.
T. IRVING, WINCHESTER, ONT., Auctioneer.

## Made in Canada-- Purest Canadian Stock Food and Veterinary Drug e <br> LACTOLINE

 One thousand 5 -lb. boxes ready to shin. prepaid by mail to any point in Ontario or
Quebec on receipt of 6 oc e in stamps per box. Give it a trial. Write for literature. The National Stock Food Co. Ltd., Ottawa, Ontario

LAKEVIEW HOLSTEINS
Senior herd bul-Count Hengerveld Wayne De Kop, a son of Pietertie Hengerveld's Count
De Ko and Grace Fane and. Junior herd bull - Dutchland Colantha sir Mona,


SUMMER HILL FARM
Holstein Cattle and Yorkshire Hogs



## Riverside Holsteins

Herd headed by KING JOHANNA PONTIAC KORNDYKE, a grandson of
ONTIAC KORNDYKE, and a brother of PONTIAC LADY KORNDYKE, J. W. Richardson, R. R. No. 2, Caledonia, Ontarle
 Sin
 3
$\qquad$


Questions and Answers. Miscellaneous. Ringworm, Meal. rinkworm; has spots on his head an
neck. 1 have tried different treatuent neck. 1 have tried diferent treatuments.
but have done no goorl. Could youn five


 ised this meal
is sat isfactory

Building and Other Queries.

and grooved
outside and
trame build
2. Would you put two ply of rough
lumber or one ply of tongued and grooved
for for thoor over stable,
3. How high should a stable ceiling
4. Could you tell me the best system
of ventilation, and explain how to put

Learn to Stuff Birds
Do you ever hunt or $\frac{\text { Fish? }}{\text { Fe se sure to write }}$

## Raising Stock That Pays

Increase your profits frowr stock-raising and dairying by using
CALDWELL'S STOCK MEALS. These nuaranteed feeds result in a quick


## GALDWELL'S <br> MOLASSES MEAL

contains $\mathbf{8 4 \%}$ Pure Cane Molasses and $\mathbf{1 6 \%}$ Edible Moss. It is a
fully-balanced ration for the upbuilding of cattle, horses, sheep and hogs, fully-balanced ration for the upbuilding of cattle, horses, sheep and hogs,
furnishing valuable feed elements that are lacking in ordinary diet. Makes evervday feed more palatable and beneficial, and reduces feed bills. Write for free booklete.

## CALDWELL'S $\underset{\substack{\text { cream } \\ \text { subsitute }}}{\text { CALF MEAL }}$

is a scientifically-prepared food for young calves, fally as good for them in every way as whole milk. It contains Linseed, Wheat, Oat, Corn, Locust
Bean, Pea and Molasses Meal in right proportions to ensure best mo having to sarifice good whole milk.

## CALDWELL'S

 DAIRY MEALwill increase milk yields and maintain your herd in prime condition. It is a carefully-proportioned cow ration for the production of milk. Contains
Gluten Feed, Cottonseed Meal, Dried Grainc, Barley, Malt Combings, Molasses Meal, forming a beneficial, hish protein ferd that will cause your
herd to thrive. Booklet free on request.
The Caldwell Feed \& Cereal Co., Limited DUNDAS, ONTARIO

Farnham Farm Oxford Downs

Maple Villa oxtord Down Sheep many prizes at big and local shows. I have thigh-class flock-
meaders and high-class ewe lambs also shearlings, J. A. Cerswell, R. R. 1, Beeton, Ontario




## BERKSHIRES

many of them now at breeding age. Order early and get a choice selection.
S. Dolson \& Son, Norval Station, On tario
Large White Yorkshires

Yothe sprucedale stock farm
Y orkshires and Berkshires of all agea bred from esom stock


In Duroc Jerseys we have either sex of any desired age bred from wiinners and charmpione tom
generation back. In Jerseys we have young cors in cait and young bulls, high in quality and
high in producing blood.
$\qquad$
ELMHURST LARGE ENGLISH BERKSHIIRES

Canada's Champion Herd of Registered Hampshire Swine This herd has won over $90 \%$ of all prizes offered for the breed at leading Ontario Falra

NEWCASTLE TAMWORTHS AND SHORTHORNS

## SYDNEY BASIC SLAG <br> will Grow Your Crops at Less Cost Tran Any Other Fertilizer

 That is a strong statement tobelieved it, the demand for our goods would bc every farmer the supply. You say every man selling fertilizer in Ontario tells the same tale. Quite true, but Basic Slay is differe from any other fertilizer ever sold in Ontario. Let us give you a few facts:

1. Basic Slag is no untried fertilizer. It has been used in
Europe in inereasing quantities for about 30 years, the world's
consumption in 1913 being three and a-half million tons world's
the last fifteen years. The farmers Maritime Provinces for
fifteen thousand tons to their lands last season, Scotia applied
Valley alone using five thousand 3. Basic slag has been inntroduced into Ouebecing. years, and the consumption increased last season to six thou-
sand tons.
2. Basic Slag was first introduced into Ontario in 1913, sumption last spring was over 1,000 tons. A the result the conseason, basing on business already done, the sales will not be
less than 3,000 tons. 5. Basic Slant liberates the potash which exists in practically
all heavy soils, thus rendering the all heavy soils, thus rendering the farmers independent of the
German supply.
3. suspic SSiag costs the farmer about $\$ 10$ per ton less money Than any fertilizer he has hitherto used.
If these facts have any significance, it is surely worth season. If we have no experience of Sydney Basic Slag this you a ton direct from the factory for soct, we will send your station, cash with order. freight on small lots, but it is worth on account of the heavy our goods introduced into your district. Wh to us to get better still is for you to take a carload of 20 tons and dis tribute same among your neighbors. If you think you could do so, drop us a line and our general sales agent will' give
you a call at once and talk the matter over Descriptive literature and all particulars on application to THE CROSS FERTILIZER CO., LTD.

SYDNEẎ, NOVA SCOTIA


## Read this New Fertilizer Booklet

$W^{\text {E would like the readers of this publication to get }}$ copy of our new Fertilizer Booklet and read it. We know they will be fully repaid for doing so.
The Booklet treats the fertilizer question in a simple别 paragraph from page 9 of the Booklet. It says:-

The fertilizer question has long been a vexing one and until recent years, accurate information regarding the dif ferent has not been their functions in relation to soils and teacher, still definite knowledge is greatly to be desired. and will mean a great deal to everyone interested in the products, of the soil.'

The Booklet then proceeds to give definite knowledge about soils, plant foods, crop requireme kindsage lintinzers, such as ground bone, blood, animal of soda, nime carbonate, ground peat, acid phosphate, nitrate mamure, potash, sulphate of ammonia, hardwood ashes, sheep

Everyone who reads this Booklet carefully will gain a big fund of useful knowledge about the fertilizer question. He will know how to fertilize intelligently. And every farmer should do his utmost to grow bigger crops than ever while the war is on.

Take our advice and write for our new Fertilizer Booklet right now before you've a chance to forget doing so.

Yours for Bumper Crops,
THE ONTARIO FERTLLIZERS, LIMITED
WEST TORONTO, ONT.

## Patriotism and Production

The Duty and the Opportunity of Canadian Farmers
AGRICULTURAL CONFERENGES
Will be held throughout Canada to explain and discuss conditions in countries where live stock and agricultural production will be affected by the war.
Agricultural specialists are now making a study of agricultural produc-
tion throughout the world, and will be prepared to place information before
the farming community. men. The information given will be of value to all farmers and other business

The dates and places of conferences will be announced later.
Information and details may be secured by addressing.
AGRICULTURAL CONFERENCES
Care of Dominion Department of Agriculture, OTTAWA, or any of
the Provincial Departments of Agriculture



# 10,000 Farmers Wanted 

To Stand Behind The Sarnia Metal Products Co., Limited, and The Organized Farmers in a Great Co-Operative Proposition
$\mathbf{W}^{\text {E want every farmer in Canada that contemplates using Corrugated Iron, Metal Shingles }}$ or any other Sheet Metal Building Materials, to write us at once for information of our new co-operative plan, by which we are supplying the farmers of Canada with Sheet Metal Building Materials at the lowest possible cost

## \$25.00 to $\$ \mathbf{5 0 . 0 0}$ Saved Every Farmer

QUALITY: We guarantee the galvanized iron used in the manufacture of Sarnia Metal Products to be equal to that of any iron used by any manufacturer in Canada in the manufacture of similar lines of roofing products which they are selling to the farmer, at the time of advertising, at an advance of 25 to 50 per cent. above the price we are quoting. And please remember that all Sarnia Metal Products are made from galvanized iron of a quality specified by the organized farmers themselves.

PRICE: By an agreement with the farm organizations we have agreed to supply all f the farmers with sheet metal building materials at a small percentage in advance of the cost of our raw materials, leaving the control of the selling price in the farmers' hands. We have estimated our profits on a very large volume of business, and every order you send us will help in making our price still lower.
SERVICE: Our factory at Sarnia, just completed, is the most modern factory in Canada for the manufacture of the lines we offer and we carry such large stocks and are situated in such an advantageous location that it is possible for us to make the quickest possible delivery of orders

## A VITAL QUESTION

[^3]
[^0]:    Marketing is the Big Problem.
    In recent issues of "The Farmer's Advocate"
    ere have appeared several articles discussing the there have appeared several articles discussing the
    Rural Problem in this country, and nearly all, if not all, have simmered the question down to one of finance. We hope our readers have followed
    these articles closely, and if any have new ideas on the subject which they have not seen ex-
    pressed in these letters other readers would welcome a continued discussion of the question.
    There is no doubt that there is a big problem before the country, and the music must be faced The we : if 'io farming business is miost as-
    surediy produc
    getting
    sult o
    
    to sev
    acreage but we should iike
    ver seen, but woum. a little more energy to impowe selling and mar-
    keting conditions than to spend all tho , fiont on preaching a greater production. The fat suming
    iarmer does not look for phomomenally high prices after the war has ceased, and is slower to
    change his plan of campaign. The raid oi tho battle cruisers of the army bent on increasimg production has little effect on his production
    policy. His rotation of crops is setted his live. stock plans have been laid at much ...pense the most important remaining link in his great he looks for his greatwst success. (:onvermments
    

[^1]:    

[^2]:    SHORTHORNS
     J．T．Gibson，－denfield，ontario
    
     Shorthorns and Swine also cows and heffer ot stom manthul，ome with ANDREW Groff．R．R．No．1．Llora，ont Clydesdales，
    Yorkshires．
    Shorthorn
    Inr，Cotholds and
    $\qquad$
     JERSEY BULLSFOR いいも

    Mention this Paper

[^3]:    If approached by another company or its agent in an endeavor to sell you Corrugated Iron elc. simply ask them what they would supply you the same material for, if it were not for the Sarnia Metal Profucts (c.. Limited, and its co-operative plan. We have some information in reard to the plan used in the endeavor of others to head off our business, which proves very interestiny rowing
    If you contemplate the erection of any new buildings or thaternoting of any already built. please send us a rough sketch, and we will do the rec

    The Sarnia A/o

