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OL. XLIV.
LONDON, ONTARIO, AUGUST 5, 1900.


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for the boys whod are arriving periodically from Eng.
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# The Farmer's Ndvocate and Home Mragazine <br> Persevere and Succeed." 

LONDON: ONTARIO, AUGUST 5, 1909

EDITORLAL


As the chici benefits of cool-curing cheese ac
crue to the patrons, it is only fair that the should bear most of the cost. In co-operative joint-stock factories the problem is easy. In faclittle more complicated. It might be solved, however, by a trifling increase in the payment for manufacture, or by a fixed annual imbursement for three or four years out of the proceeds, until say, two-thirds or three-quarters of the cost were wiped out. The patrons could well afford to do this and yet be money ahead.
The proposed raising of the standard for matriculation from the High Schools and Collegiate Institutes of Ontario to Toronto University will not affect the standard of admission to the Ontario Agricultural College. A few years ago University matriculation was required for those Who took the four-year 13.S.A.-degree course, but was who remained at the Collegiates till they pot matriculation made in many cases rather ordinary agricultural - college students, whereas sons of farmers with a fairly good English education, but no matriculation, by hard, persistent work, were at the end of the second year better all-round men than the other class. The College authorities, therefore, decided to make the first two years' work very thorough, and allow none
to go forward to the third year unless they made a fifty per cent. average on all subjects, and sixty

English. This cut out probably hali of the students in the second year, and at
lenst 75 per cent. of the Second Year men return to the farms. Those who reach the requirements $r$ third vear have therefore, attained a reason-

Young man, the best investment you will ever make will be money spent upon the development and enrichment of your brain. The power and amplitude for service that education gives will was over-eager to commence earning money at once. It is well to begin saving soon, for it prepare a home by the time he is ready to marry. Nevertheless, important as this is, it is much more important to equip yourself with a well-
stored proficient mind. Savings may be accumulated and lost; education you have as a permanent asset. Money, possessed by an untutored and debases character. Fducation should and generally does build character, a more priceless possession than intellect. Acquire a competence if
you can, but be sure and obtain education - the kind that will hroaden your outlook, deepen your understanding, ennoble your aspirations, modify our idiosyncrasies, polish your manners, and strengthen your principles, besides helping you to make a success of your particular sphere of servThe. That it may do all these things, the course
$\qquad$
$\qquad$ rounded in the principles of his lifework has commenced a line of education likely to be pursued to
the end of life. If arriculture is your prospective
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Breeding Age of Heifers. The tendency of the times to hreed dairy helfer expediency. The strain of motherhood upon so expediency. The strain of motherhood upon so
young an animal must necessarily tax her vitality, hinder her natural growth and sap her constitufion to a considerable extent. Even though this effect may not show up seriously in one generation, it is reasonable to expect that if continued from generation to generation the natural tenden y will be to reduce the size and weaken the constitution of the herd in which the policy is prac siced. While size may ne dairy cows or other Stock it is certainly desirable to the extent of ffording plenty of room for healthy action of heart and lungs, and capacity of stomach to work capable of giving a profitable return in milk or meat for the food consumed. The idea prevails that heifers bred to calve at or under two years will make better and more persistent milkers than those producing their first calves at two and a half to three years ; that at the latter age thes become disposed to fatten unduly for dairy purposes, but this is a theory, the truth of which has not, to our knowledge, been established, while there is danger of early breeding becoming, a fad that will tend to undermining the constitution of a herd or a breed. There is little room to doubt ne. continued from generation to generation, the largest breed of cattle could be reduced almost to the size of roats. There is little profit in milking heifers at or under two years old, as the quantity given at such age is, as a rule, comparatively small, and they need to be fed extra to keep them in decent condition. While the desire to increase the herd rapidly is natural, it may be done at the expense of its vitality, and the wisdom of breeding heifers to calve when under two years old, or, indeed, at two years, is dorbtrul. The age well be adopted as the standard. The theory that liberal feeding of heifers ander juriously affects their milking qualities, is another, the feed given is not of a heating or fattening tendency, we are of opinion that there will be gain, from the standpoint of milk production, in keeping the heifers in vigorous, growing condition from the start, thus building up a strong constitution. Though they may take on a somewhat coarse appearance as heifers, it will be found that the processes of motherhood and milking will in a few weeks bring out the desirable feminine appearance and elasticity of hide handing, and weak and be a strong femininity instead of the weak and delicate one forced by abnormany early maternity.
The mother must possess strength and vitality if The mother must possing is to be strong and well developed. Doubtful theories and absurd fads, propounded by glib speakers and fertile writers, and followed by self-constituted, so-called, expert judges, have done much to injure the dairy breeds of cattle, and it is quite time that common sense had its innings in the conduct of the breeding, feeding and management of this most important class of farm
It is not vet too late to try an experimental seeding of alfalfa on thoroughly clean, well-prepared rich land. While August seeding can scarcely be called a demonstrated success in this latitude, a few have tried it with satisfactory re-
sults. We would not counsel the sowing of an sults. We would not counsel the sowing of an
extensive arm at this season, but there is nothing

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with this paper should be addresesed as below, and not to any with this paper should be addressed
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the william weld company (Limited),

Curd for the Patrons.
About the rarest place to find a piese of good There will often be good curd, cut up on a plate and offered as cheese, but the rich, nutty, ripe, silky-textured article is seldom found. Yet this is the only kind of cheese that is fit to eat. Cheddar chcese is not really made until it has hoops. Certain bacterio-chemical changes take place which break down the insoluble curd into more soluble and more digestible forms which the system can assimilate. (io into the factory cur-ing-room, ask for a picce of ripe cheese, and the
maker will generally bring out the real article. He could keep a stock of such on hand for his patrons if they asked for it, but most of them want wholesome, wherein they make a great mistake,
and do their stomachs grave injustice. It is not necessars to leave the cheese until there is danger of its walking away, but if it is to be waten it all, it should be allowed to "hreak down."
ise we might almost as well consume India rul, ber. These who object to the decided flavor
cured cheese often do so from a misconcmption they guard their taste, thinking it is protecting their stomachs from something unwholesome whereas it leads them to put into thwir stomach one of the most unnholesome and indigestibl

Sandy Fraser Goes to Church. be, I wad say that it lukes to me as though it I hae been at the kirk again the day. First bit better men an' women than oor faithers a we thing I ken I wull hae the habit, gin the Saw- mithers wance as possible between us and the mackle unco' straight-talkin', hard-hittin' chap, as I keys that they tell us were our ancestors a few was tellin' ye, an' it's somethin' o' a recreation is a' richt, but its true purpose is to develop tac gang tae a kirk where ye will hear yer nee- strong character at the same time that it sup. bor's faults an' failins' laid bare, an' them no plies us with the food an' shelter that maks' it
able to pit in a word for themselves. Mony's possible for us tae gae on livin' and able to pit in a word ror
the time, though, I'll be thinkin', that they can- possible for us tae gae on livin' and gettin' the na' be takin' a' the preacher's words to them- auld airth. So, gin this is true, and we hae selves, but will be passin' them, on to a frien', auld airth the ro, found oot meaning o' life, what can we
wha they think is mair in need $o^{\prime}$ ' reformin' than weal wha they think is mair in need o' reformin' than say for the lives o' the men we hae had under
themselves. Well, ye wull be wantin' tae hear canseederation this morning? They hae missed themselves. Well, ye wull be wantin tae hat conserderation this morning ? They hae missed
what like was the sermon, so I will begin at the cone real object o' livin', naething mair nor lees. heginnin' and gie ye the text. When I was a wee what we need to get oot o' this warld is some laddie ma mither wouldna' gie me ony dinner, gin thing that will stay wi' us, an' help us alang on I couldna' tell the text ' hene been tae kirk; so ye'll ken I didna' forget the next stage o' the trip, whatever like that may had been tae kirk; so yabit stands me weel the be cin oor muckle o' a harvest, but we ken weel that day, noo that I hae takin' tae reportin' ins' o ${ }^{\text {' }}$ the preachers. . Weel, the text was this: "What is your life ?" ""Noo," says the preacher, "" when I ask ye a question like yon, I ken I'll hae juist about as mony different answers as there are men an
women inside these foor walls. For instance gin 1 ask that mon yonner. 'What is yer life ?' what wull he say, supposin' he tells the truth ? He wull say, 'Ma life is a life o' money-makin'; money I dinma ken juist what I'm gaein' to dne wi' it $a^{\prime}$, for it hurts me sair tae spend ony O' it, an' as for leavin' it tae ma bairns, I ken
weel it wad be nathein' less than the ruination weel it wad be nathein' less than the ruination
$o^{\prime}$ them; but, nevertheless, it's money 1 want, an' money I will hae.' And then I ask this mon
doon here what is his life, an' what does he say? 'Ma life is a life o' hard work. Frae
daylicht till dark I dinna ken onything als. They daylicht till dark I dinna ken onything else. They
had me oot plantin' taties a few days aifter had me oot plantin' taties a few days aifter
was born, an wi' ane thing an' anither, I hae
boen at it ever since been at it ever since. I dimna' tak' ony tin
tae read, an' I tak' juist as little tae think.
doot T'll dee wi' ma nose tae the prindstane doot I'll dee wi', ma nose tae the grindstane, a
turnin' it masel', gaun 'The next mon I was thinkin' o' askin' has
the to slep. It's no' a bad way o' pittin' in sight mair muid than listenin' tae the havers
sime some o' oor pulpit-smasters; but since oor frien' anna speak for himsel, a will, hae to tel
what his life is. It's a life o laziness.
spends mair time figurin' on hoo tae get oo spends mair time figurin' on hoo lae get oot
daein' a job than it wad take tae dae it twic He's ave complainin'. $o$ ' the hard row he has tae hoe, an' I'm dootin that, when at last he gets
tae the end o, it, an' his life's wark comes tae he inspected, there willna' be muchle to show for
it $a^{\prime}$ but a hantel $0^{\prime}$ weeds." ferninst me a a' richt, but I will na' be pointin' him oot, for frar I will na' be pointin' juist
straight, an' a lot mair o' ye might be takin' iny remarks tae yersels, ony way, he's the mon wad call it dishonesty, I suppose. It's no lang
since I had a wee word tae say aboot this same lad afore, but as he will he fittin' intae ma text wha believes in gettin through this life as easy
as pessible even gin he has to mak it hers pay
his way his way : an' he doesna care muckle, although ' he sees at the end o' the trip is a hole in the he elne the the her ye. Anither mon I'm the done wi' ma personalities, which na tuein' tan sleep. That's the mon that's standin' in this verra pulpit, maybe; it's for yerselse tae mon hae sic a guid chance walkin in the same dicin' a ot o preachin' an' mighty lititle prate 1icin' What is yer life? is a question that
romes the ilka ane o' us, an' gin' we are gatin' romes tue ilka ane o' us, an' gin' we are gatin'
tae answer it in the way we should. we maun mak 'richt livin' the first conseederation, an' then
twllin' ithers hoo the liwe will hae its place.
 Whan biech that ".e shoulthe want tan ken juist



we hae developed a guid bit o', muscle if we did
na' neglect the hoein' We a, ken there isna'
ony sense tae this life in itself, wi' it's wark na seglect the hoein, we a' ken there isna
ony sense tae this life in itself, wi' , it's warkin'
an' scratchin', an' livin' an' deein' an' we an scratchin', an' livin' an' deein' an' we a
ken that tit's what we are, an' not what we hae that is gaein to count in the end, what in a hae,
rush an' hurry we are unco' apt to forget it rush an' hurry we are unco' apt to forget it, an'
get to chasin' aifter the dollar, or whatever oor get to chasin' aifter the dollar, or wkatever oor
particular weakness inay be, wi' the rest $o^{\prime}$, them. particular weakness may be, wi' the rest o' them
So this is why I will be takin' up yer time this So this is why I will be takin up yer time this He's a gey quare kin' a meenister, this mon o' oors, an' the auld , wumman says to me on the
"Way hame. "'S Sandy," says she, "' lae ye think he's sound ?" ". Weel.". says I' "I dinna juist ken, but gin he doesna' tak' us tae the next
warld by the auld road. T'm thinkin' the ane be warld by the auld road. T'm thinkin' the ane he
is hewin oot will no' be so bad for some $o^{\prime}$ us is hewin oot will no' be so bad for some o' us
ns ye'ne thinkin'. Juist hide a wee an' gie him
a chance."
SANDY FRASER. HORSES

Action, Size and Strength. Following the judging of heavy-draft horses at
our fains, one is inclined sometimes to think that our fains, one is inclined sometimes to think that
action-trotting action, particularly-is overstraight, clean-cut and draft horse should be straight, clean-cut and energetic in action, goes
without saving. The more nearls, true the lege without saying. The more nearly true the legs
are carried forward on the move, the less energy as expended in producing the forward motion, and But over-mphasis of one point has a tendency to induce under-estimation of others. Ii such, and is
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ to work at the walk. Their business in life is to shift weights and pull heavy loads. The
woight of the load one or a pair of them cam haul and kepe on hanling day in and day out, is the
measure, in a practical way, of the value of the anasure, in a practical was, of the value of the
inimals. Thuy want conformation that will give Thom strength want a heavormation that will give "iont to mow loads at the least expenditure of
Mhs sical eflort, as much as they need straight-go-
ing lers to carry them forward, with the least "x! enditur" of energy.
Bone amd foot quality cannot be given too
 tuin ract that certain of the draft breeds that are mints as others are distinguished in service for cqual to the brecds rated by judging authorities as hat ter cquipped for lasting work, in so far as Ghure this has theen trum in fact, will readily oc(our. this teaches what some draft horsemen refuite to learn. that omformation, along the line and hauling-picower, is very closely related to the

## THE FARMER'S ADVOCATE

Cost of Three-year-old Colt.
The cost of raising a colt, either of the heavy years old, depends on the market price of hay and feed, and whether I would calculate it as follows

Service fee, $\$ 10$; difference in
amount of work done by dam
up to weaning time, $\$ 10$
irst winter's keep-
210 days, hay at $\$ 10$ per ton.. $\$ 6.40$
210 days, hay at $\$ 10$ per ton. $\$ 6.40$
About 4 lbs. of oats a day, at
inc...... 10.00 ccond winter's keep
210 days, hay at $\$ 10$.
Bran, at $\$ 1$.
Bran, at $\$ 1.20$ per cwt.
Oats, at 40 c . per bushel
Third winter's keep, same as second Two sum
Shoeing
Total
In the case of a male there must
Naking the total................. \$140.00 Nothing is put down for attention, stabling,
breaking. The colt of the heavy breed should be credited with , at least $\$ 20$ for work done after he
is two years old, thus reducing the cost to $\$ 115$ to $\$ 120$, while the average selling price may be put down at $\$ 150$, leaving a profit of from $\$ 30$
to $\$ 35$, provided that there has been no sickness, 10 accidents, followed by blemishes, and that he is If the colt be of the light-legged breeds he can
scarcely be sold at three years old, but his keep scarcely be sold at three years old, but his keep
till he is four years old will be compensated by fill he is four years old will be compensated by
his work. Now, what will then be the value of his work. Now, what will then be the value of
that horse? That can hardly be determined. He might be worth $\$ 125$ or $\$ 250$, a according to conformation, style, training, disposition, etc., etc.
However, the average selling price may be put down at $\$ 150$, leaving a margin of from $\$ 10$ to In this section of the country farmers calculate differently, In their estimation the cost of raising a three-ycar-old colt does not exceed $\$$ winter's
follows ITp to weaning time, $\$ 20$, ifrst winfer
keep, $\$ 11.40$; two summers at pasture, $\$ 20$; hay keep, $\$ 11.40$; two summers at pasture, $\$ 20$; hay
fed during two winters, $\$ 40$; shoeing, $\$ 3$; castration and medicines, $\$ 6$; total, $\$ 100$. From three
to four years old, keep is compensated by work. Average selling price at four years old, $\$ 140$, lea ing a profit of $\$ 40$. Everything is supposed to
pass off in the best way, hut, as everybody knows, pass off in the best way, but, as everybody know
it is not so in at least five cases out of ten
Quebec co (our

Raising Dpaft Colts

Being a farmer and breeder of draft horses,
heg to submit cost of raising a heavy colt up to hree years. My estimate is not meant to include pure-breds, hut good commercial horses, such as
are suitable for city and other heavy work. The mare should be sound, good tempered, and built on approved draft lines, weighing not less than
1,500 or 1,600 pounds ; $\$ 250.00$ is about her

asture, 6 months, at $\$ 1.50 \ldots \ldots . . \frac{9.00}{\$ 15.20} \$ 39.0$ Oats for foal tirst winter
Hay for foal tirst winter
Bran for foal frit winter

Total cost of colt at age of one year 866.2
Cost from one to two years-
Sats
Hay
Fordder
$\qquad$
$\qquad$
$\qquad$
$\qquad$ It the age of threw vears the colt has co $\$ 1: 33.50$. A certain amount of feed he has con
sum.d has. heen left on the farm to increase its
fertility, the amount being equal to the cost of
 while murng him. an amount amply sufficient
if bred and fed in the way indicated; if a mare, she will just as readily sill for $\$ 200$ - either one
without being broken. Allowing half the produce
to be geldings and half to be mares, we have an to be geldings and half to be mares, we have an
average price of $\$ 190$, or a profit of $\$ 56.50$ per average price of $\$ 190$, or a profit of $\$ 56.50$ per
colt.
With reference to light horses, my opinion would likely have little weight, as I am not rais ing that class, nor am I raising export steers.
My cattle are mostly Shorthorns, and are usually My cattle are mostly Shorthorns, and are usually
sold when slightly more than a year old. But I had choice of raising under contract the colt o the steer, leaving out of consideration service fee for colt, at the same price, I would certainly le
the other fellow raise the colt. A. J. DOLSEN. Kene other fellow
Kent Co., Ont,

## Stallion Law of Wisconsin

The stallion law of the State of Wisconsin, as
recently amended, is more advanced than similar laws in, any other part of the United States. It provides for the separation of grade stallions irom the scrubs or mongrels with which they wen
formerly classed, and makes fines or imprisonment formerly classed, and makes fines or imprisonment
the penalty for breaking the law in the matter of grading or licensing. No stallion-owner is permitted to use or offer for sale any stallion before
he has obtained a license for it, and registered the license. Certificates have been provided for stallions that have neither sire nor dam of pure
breeding. Such horses will not hereafter he breeding. Such horses will not hereafter be licensed as "grades," but will be given certifi-
cates as " mongrel ". or "scrub "stallions, and the certificate will state that the stallion is of "mongrel breeding," and is, therefore, not cligible to registration in any recognized studbook
or if a stallion is from pure-bred sire and dam the registration hoard may refuse to grant "purebred "or even " grade " license certificates if th animal is not up to the required standard as re gards size. type and soundness. The law aims
to drive scrub and grade stallions out of use in the state and to make it as difficult as pocsibl for farmers to breed their mares to low-qualits

## Good Colts Most Profitable.

According to my summing-up, a farmer can ruise a colt of the heavy breeds, up to the first
day of seeding, three years old, broken to harness and in flesh for work or salc, for $\$ 70$, not counting cost of service. horses, but, taking all things into consideration think it costs a little more to raise a good light colt than a heavy one. The light colt will not eat as much feed, hut does not come to work I consider the average selling price should be for a three-vear-old colt, with some training. so nrofit for mannerly in harness or halter, \$150; $\$ 70$. It costs as much to raise a poor monerel as it does to raise a good pure-bred colt, so far as feed and handling ane concerned. The farmen them at $\$ 200$ to $\$ 250$ when three years old, has ald way. sells from $\$ 75$ to $\$ 125$, and has much
old when wile the smaller profits, if any. NFIT. F. McKINNON.
Wellington Cont. Ont.


Flair and Foal
largely of rough and succulent feeds, as clover
hay and roots. The meal should be light in hay and roots. The meal should be light in
character, and rather sparing in quantity,
especially early in the winter. To illustrate, especially early in the winter. To illustrate take this feeding record of a bunch
the Experimental Farm in $1907-08$. more than one or two litters were unsatisfactory
in either quality or number. It is ipossible, if
this way, to save from 10 to 20 per cent. in the this way, to save from 10 to 20 per cent. in the
cost of the young dropped. That is, by selection and care, along with judicious feeding of the
breeding stock, one may effect a saving of 25 to 40 per cent. before even starting to feed

200 bushels oats, that is $\$ 120$; and four tons shorts, that is $\$ 100$; $\$ 25$ for pasture, etc., and
four sows' keep, that is $\$ 80$, for reckon it costs me $\$ 20$ to keep a sow a year. That 15-?
Writer. Mr. S.-Well, I got $\$ 418$, so you see I lost lots Writer.-You forgot the three pigs, you kept,
and you charged 20 bushels extra barley, and yo charged present market prices for your grain. would figure it out this way : Your sows cos ters this spring, I suppose
Writer.-Well, sows, $\$ 40$; barley, 180 bushels at 55 cents, $\$ 99$; oats, 200 bushels, at 50 cents,
$\$ 100$; shorts $\$ 100 ;$ shorts, ${ }^{4}$ tons, at $\$ 24, \$ 96$; potatoes,
etc., $\$ 25$; total, $\$ 360$ You got $\$ 463$, or the
equivalent, which makes $\$ 103$ profit. equivalent, which makes $\$ 103$ profit.
Mr. S --But barley is worth 65 cents, and Mr. S--But barley
Writer.-They were not those prices in the fall, when you would probably have sold. Besides, vou would have had to clean, bag and haul the
grain 8 miles-that is a consideration, is it not grain 8 miles-that is a consideration, is it not
Mr. S. Well, I suppose one might look at it in that way.
Mr. S. still has his four sows, and is not
quite so pessimistic as he was. I wonder how quite so pessimistic as he was. I wonder how
many farmers there are in this Canada of ours who figure it the same way as Mr. S. ? How
many use round numbers and top prices when many use round numbers and top prices when like a pig killed or a sow kept, when figuring the And another item very seldom con
sidered in the returns is the manure, than whic sidered in the returns is the ma
From a number of years' experience with a breeds, under most adverse conditions as to housing, and most expensive as to care and feed am of the opinion that, taken one year wit
another, the pig business can be made to yiel another, the pig business can be made to yiera-
good profits. This I say, taking into considera-
tion the high prices ruling at present, and likely to maintain for another year at least, for a in prices for the finished product
One great aim must, however, be kept con stantly in view ; that is, lower the cost of pro duction. The farmer cannot control the selling oommodities, is controlled entirely or very largely by supply and demand. The cost of production is likewise influenced to a considerable extent by prices of feedstuffs, but the skill and knowledge of the breeder and feeder enter at this point, and may very easily make a difference of one half the cost of production, with the same class
swine and the same prices for feeds. swine and the same prices ior feeds. This mas to attribute to skill and knowledge, but my ex-
perience would seem to indicate that it is probaperience would seem to indicate that it is proba I would suggest as lines along which I would suggest, as lines along which. im made

Raising young sows.
Care and management of young pig
Economy in feeding or finishing off
Winter feeding-of
Selection of Breeding Stock.-A very great dif
fenence exists in strains or families of different breeds, as well as among cross-breds, as to feto keep sows from large litters. No sow gives a very large litter every time, but the average should be good. The same peculiarity should be in evidence in the dam of the sire selected.
other point, and one very commonly neglected, to see that familie from which selections are made are quick-g
maturing animals.

$$
\begin{aligned}
& \text { There is no doubt that attention to these } \\
& \text { points means a difference of from } 20 \text { to } 30 \text { per }
\end{aligned}
$$ points means a difference of from 20 to 30 per

cent. betweon well-selected and poorly selected breeding stock-say, 25 per cent.
Kaising Young Sows and loars.-The breeding Kaising Young sows and Boars.-The breeding
stoch once selecter, may usually be fed as are stock once selecterl, may usually be feld as are
feeding pigs until four or five months old. After this age, they should be put on a special ration: that is, a ration likely to induce growth, roomness and trimness. Fia this way the chances of
the sow beroming a mood dam and a prolific


Amount of Feed Consumed by 29 Brood Sows
from December 1st, 1907, up to March
Week ending. Roots. Bran. Shorts Clover lbs. lbs. lbs. hay. Dec.
J)e.
Dec.



 Feb. 8
Feb. 15............2,450
2,450
Feb. 22
 $\begin{array}{lllll}\text { Mar. }{ }^{7} & 2,200 & 350 & 700 & 100 \\ \text { Mar. } 14 & 2,200 & 336 & 672 & 100\end{array}$ and no more, is imperative." Skim milk or whey,
 3,788 lhs. bran, at $\$ 22$ per ton...............
41.66
51.81 $1,550 \mathrm{lbs}$. hay, at $\$ 7$ per ton

105 days, cost per pig per diem, 4.46 cents,
irst 7 weeks, or 49 days, cost per, diem, 2.77 rents.

As indicated, these sows cost 4.46 cents a da to feed, or $\$ 4.68$ for the winter, each. This ex-
perience was repeated in 1908 - 9 with quite as satisfactory results, as the following figures will


 Now ind ind sive serent.
the young ones. Care and Management of Young. Pigs. - The
youngsters from birth must have an abundanoe of always sweet, or always sour, with a little feed
four added, does well. Lacking whey or skim four added, does well. Lacking whey or skim
milk, then oat chop, with hulls sifted out, coarse milk, then oat chop, with hulls sifted out, coarse
feed flour, and oil-cake meal, equal parts, in a thin gruel, is about right. (ietting them out on
the land early in the rame is higly pure air, dry quarters, and just sufficient food of the right kind. Very seldom, indeed, are all
these requirements fulfilled on our , these requirements fulfilled on our Canadian
farms. Dampness and foul air are the moter commonly observable defects. air are the most these, better ventilation and more hygienicallyconstructed piggeries are necessary. This is,
however, a question in itself, and should like to take up at some future which I should like to take up at some future time in
detail. The feed of the youngsters must nece detail. The feed of the youngsters must necesarily be through the mother for a couple of
eekis. Any overfeeding or unsuitable food is fatal at this period. Cooling food, rich in milkSome succulent feed when quite young is bene-
ficial. Pulped moots, clover or rape, are all suitable. A certain amount of pasture or green
fead is always profitable. Overdoing with these is not economical at any stage. Finishing Off.-The final period should begin
while the pigs are still young. They should, in while the pigs are still young. They should, in
fact, always be in good condition. To attempt
to economize lact, always be in good condition. To attempt
to economize by feeding on green feed exclusively,
or almost entirely, is inistaken economy. Keep or almost entirely, is inistaken economy. Keep
pigs thrifty aind doing. In summer, meal, green pigs thrifty and doing. In summer, meal, green
feed, shade, and an abundance of water, with only a very small run, are the best conditions. In autumn, replace the green feed with puped sugar beets and mangels or cooked potatoes, tur-
nips or pumpkins, about equal weights of meal nips or pumpkins, about equal weights of meal
and noots fed mixed and in a thick slop. Do not cook meal. Feed warm in cold weather, if convenient. Feed meal mixtures of medium
weight. Too open and light makes paunchy pigs; weight. Too open and light makes paunchy pigs;
too close and heavy means indigestion. Feed regularly; feed a uniform ration as to quality
and quantity. Fieed at least three times a day. Keep pigs dry, cool, and well watered, in summer. tive in fall and winter. (iond feeding and good
tood flean, and aigs acof Mains. for the market, that have been raised in the right way, fed off with the right feeds, under proper
conditions, and which are the get of properly-selected and properly and economically fod breeding stock, are frequently put on the block at half
the total cost of other similar-looking pigs that the total cost of other similar-looking pigs that
have been raised in a haphazard way from poorlyselected breeding stock, and then fed, as is too wften the case, on too expensive foods, badly pro-
portioneal in mixing, and badly handed out to the pigs under bad cornitions as to housing, water and air. This being the case, as 1 am sure not
in few will admit possithe, and too frequently true, it is in the writer's opinion, not the pig, nor the that are to blame. hut rather the too great careThat are to blame, but rather the too great care-
lensnesis of a large number of our farmers who tail to give this quustion the attention and study (hat mate athsolutel whecessary to insure success, There is hanther finature of the pig-feeding neature for the sinalnness of our pork product. 1 ath inclinewi to think that not a few of our
Canadinn farmers go out of the pig business larmely hecause they for mot like it. This would
$\qquad$
$\qquad$
$0-0+2=0$


## 

A Service Stall
some time ago a subscriber inquired could puhlish instructions for the building of a hreecing stall, or stocks. heifers when a hem sescription and sketch of a duce in ther whe was recently pulidevice for the Jrisev Bulletin, and which appears o be practicatle an

the warner service stall
In building a stall, one strould select a level space, set two posts 36 inches apart; to the posts spike a piece of 6-inch plank, the top edge ground. Four feet six inches back of these posts, set four more-two on either side, as shown in
drawing. The short or inside posts should be about 16 inches high. Spike a piece of $2 \times 4$ from the top of the short post to the longer post by
its side-slanting the $2 \times 4$ a little toward the nside of space where the cow is to stand. The
space betweon the short posts should be 30 inches. Place a 9 -inch plank flatways, the front end esting on the stringer nailed across the front posts, the back end resting on the $2 \times 4$ that is neiled on the hind posts. This plank should pro-
ject over the hind post about six inches, also about three inches over the top of the posts toward the inside. Nail fast. Then place an 8 inch plank lengthwise, set upon edge inside of the
long posts, and nail to same. This is to prelong posts, and nail to same. This is to pre-
vent the bulls' feet from slipping off the outside edge of the plank which his front feet rest on when serving. The space where the oow stands
should be 18 inches wide at the front end, and should be 18 inches wide at the front end, and
24 inches at the back end, opposite the hind 24 inches at the back end, opposite the hind
posts. We always use this stall when breeding a cow.
Its value will become more apparent when using a heavy bull on a small cow or heifer. When we were breeding
weighing 2,400 pounds to a yearling heifer, withweighing 2,400 pounds to a yearing heifer, with-
out the slightest injury to either.
I neglected to mention that, should a cow after being placed in the stall, stand too high for the bull, a little dirt can be taken out where her
hind feet stand, or if too low. 11 in.

## Alfalfa Pasture for Hogs

One of the most extensive and successful swinc
-aisers in Kansas tells the author this. "Twent raisers in Kansas tells the author this: "Twent,
five years of pasturing hogs of all ages on alfalfa has proven conclusively to me that a fourth to a
half gruin ration, while they are on such pasture, half gruin ration, while they are on such pasture,
will produce greater growth per day than when in will produce greater growth per day than when in
dry lots on full feeds of corn. Hogs will maintain a reasonable growth, but not fatten much,
on alfalfa pasture alone; I believe it profitable to
feed fed them some grain while running on green
alfalfa. If it is desired to full-feed hogs, thes alfalfa. If it is desired $t 0$ full-feed hogs, thes
will make $\quad$, rapid fattening growh from increas
ing tho ing the grain ration while on pasture, and with ng tull grain ration the meat will be nearly as
he fre
irm as that of hors kopt in a drv lot, where firm as that of hogs kept in a dry lot, where
grain alone has leen fed. If find no distinction
on the marlot heten on the marker bet ween alfalfa-fed swine and those
purely grain-fed, and they sell price and price purely grain-fed, and they sell price and price
alike. The weneral health of the alfalfa-fed hogs
is equal is equal to that of those maintained on any other
feed, and thes are prolific." As to the amount of pasturage or the number of hogs alialfa "ill carry per acre without injury
to the crop, the estimates given by farmers vary
cons considaraty dopending on the kind of soil, the
(ertility of the land, and the size of the hogs pas tured. Th. Tollowing, howerer, is a safe esti-
mate, as nuch experionre. "pland of fair average fertility
will support from "ight to ten head of the 50- to
for 125 -pounn hors. "There are fields that have supported 2.5 hed per acre through the season for a
number of number of sars, and are still in good condition; pasture ion thom than five head per acre, but these are extr..... When a field is only used for pas-

Bovine Abortion. "was tested by giving her enormous doses of viru lent exudate, both by the mouth and the vagina The British loard of Agriculture in 1905 ap- thirty-six days after becoming pregnant and 142 pointed a committee of veterimary experts days after 10 cc . of a dense emulsion of a viru otherwise, into the causes and nature of epizootic lent exudate into the jugular vein. She was abortion in cattle, and to consider what pre- killed, and found free from infection, 122 days ventive or remedial measures may, with advan- after receiving the first infecting dose. told, "are tage, be adopted with respect to the disease. These results with heliers, we are remembers The most hopeful line of enquiry, says the the that not a single negative result followed the


Southdown Shearling Ram
$\qquad$ proctuction of immunity by inoculation of large We are of opinion that it will seldom be necessary to doses of pure culture. One of the great objec- continue the injections for more than a month, and practice is the number of operations necessary to in putting the cow to the hull, provided she is ensure protection. But, owing to the harmless- afterwards protected against fresh infection." ness of large quantities of pure cultures of the It is observed that cows which have aborted abortion hacillus when injected into non-pregnant should not be sold, except for slaughter, till they animals, it seemed possible that whatever degree have ceased to discharge. abre report ind a catea
of immunity could be established by a practicable that cows which have once aborted are, as a rule, of immunity could be established by a practicable that cows which have once aring a subsequent preg-
number of small doses might be conveyed by less liable to infection during a inoculating one large dose." Trials with pure nancy than if they had not before aborted, though cultures of the bovine abortion bacillus were, it is known that a considerable number of cows


Ratcheugh Beauty.
First-prize Shorthorn cow at Royal Show, (iloucester, 1909. Bred and exhib-
It is especially im Ing inoculated about 60 to 148 days before be- intunded to be fed to hogs should be cut early. A coming pregnant. The results with sheep were experiment at the Kansas station showed that
so irregular as to be regarded as of little or no ton of early-cut and well-cured alfalfa hay, fed practical value, and these trials were discontinued. with grain, produced 868 pounds of pork, while With heifers the results were more encouraging, ton late cut and poorly cured, fed with grain, culture of the bacillus, the one 148 days and the it is well to feed about one ton of well-cured other 106 days, before becoming pregnant. The alfalfa hay with each 250 bushels of grain.iormer heifer, forty days after becoming pregnant, was inoculated intravenously with $10 \mathrm{c.c}$. of a when killed 112 days thereafter she was found free when killed 112 days thereafter she was found ree
from infeetion. The immunity of the other heifer

Intendine will do well to remember that in close competition will do well to remember that in close competition.
condition of hair and hide and good manners count.

The Trade in " Prime Scotch " Farmer's Advocute " readers are aware, fron the valuable letters of our Irish correspondent going a remarkable regeneration. In the pro going a remarkable regeneration. in the pro
duction of bacon, butter, eggs, poultry, etc. great strides have been mad
In view of the increasing attention which has been drawn to the possibility of developing in Ireland a dead-meat industry similar to that a present carried on between the North of Scot land and the Central Market at Smithfield, in London, the Irish Department of Agriculture sent over an officer to investigate and report upon
the conditions under which the business is the conditions urder which the business is Smithfield, which was opened in 1868 is at Smithfield, which was opened in 1868 ,
recognized as the largest meat-distributing center in the world. The home supply, which in recent years, owing to the development of the chilledmeat trade, scarcely amounts to twenty per cent of the total, is sent from the chief feeding dis tricts in England and Scotland. North of Scot land feeders, especially, prepare the great ma jority of their fat cattle for consignment in th dead-meat form to Smithfield; and, owing to the superior manner in which cattle from these
districts are finished, the dressed cancasses from districts are finished, the dressed carcasses fro there command the highest prices in the market
and are known as Prime Scotch. Aberdeen is enenally regarded as the most important sea of the industry in the North of Scotland.
The greatest part of the Sootch meat trad with Smithfield is carried on by a class of me who buy the co the local auction marts, and after slaughtering, consign the dressed carcasse after, slaughtering, consign the dressed carcasses
to salesmen in Smithfield for disposal. These men are the mainstay of the fat-cattle trade in the North of Scotland, and may be described as
Dead-meat Consignors. In addition to these Dead-meat Consignors. In addition to these
however, certain classes of butchers occasionally
send to London consignments of dead meat send to London consignments of dead meat
especially the more valuable portions of the car especially the more valuable portions of the car
casses, which can be more profitably disposed casses, which can be more profitably disposed of
at Smithfield than tocally. From the prevailing quotations for dead meat at Smithfield, consigno are enabled to follow the trend of the marke closely, and to decide on the most advantageou
times to forward supplies. So far as could h ascertained, t engaged in the trade. A large number of farn their mutton dressed for sale, but very few tak their mutton dressed for sale, but very few tak
part in the dead-cattle trade with London. an occasional instance, where farmers are dissatis
fied with the live prices obtaining locally, the fied with the live prices obtaining locally, the
cattle may be entrusted to commission butchers who, for a charge of $4 \mathbf{s}$. to 5 s . per head, wi
dress and work them up for the London marke ThE MOST SUITABLE TYPE,
The class of cattle which Scotch feeders pre The class of cattle which Scotch feeders pre-
fer ior feeding are the ordimary Aberdeen-Angus
type of the country. These, as a rule, are shorttype of the country. These, as a rule, are short
legged, level-backed, early-maturing beasts, with fine coats, and, when finished, carrying the tlesh cattle, whether pure-bred or over. Black-polle
garded asses, are re garded as ideal beef animals, and it is claimed
for them that they respond so much better to for them that they respond so much better that
feeding than the Irish imported bullocks, that feeding than the rish imported bullocks, tha an average, will yield a higher percentage o
dressed carcass to live weight. At the same Iressed carcass to live weight. At the sam.
time, large numbers of Irish store cattle, suit time, large numbers of Irish store cattle, suit able for feeding, are in the fattening industry.
the counties entage
These Irish cattle are mostly Shorthorn crosses These Irish cattle are mostly Shorthorn crosses
of good quality, and dealers who supply these disTrists from Ircland. find that there is no deman
from fieders except for the very best quality stores-strong. level-hacked beasts, with wel
sprung ribs, good pliant hidit, and al keneral al sprung ribs, good plant hidtas, and a general a
pearance of growthiness. Most wootch feede prefer to get Irish cattle as young as possibth
and a large number of calves, ranging from seven and a large number of calves, ranging from seve 15 year for fattening. These vary in age irom C8 to £12, according to quality. In either case, Irish-reared cattle are usually kept over by Scotch
feeders till fit for disposal in the fat-stock market, at the age of 2 or $2 \frac{1}{2}$ years old. Sold at
this stage, these cattle, if well finished, will make this stage, these cattle, if well finishec, wing from \&20 to $£ 22$ in the auction mart-ring. The opinion prevails, generally, that the younger class of Irish cattle return the most profit, and one in stance was given of a Scotch feeder who pur-
chased in the late autumn a bunch of sixteen hased in the late autumn a bunch of shicteen about two years old, mado an average price of $£ 21$ each. Contrasting the black polled cattle with the imported Irish Shorthorn-cross beasts, it was concrided that, given similar feeding and
reatment. little diference in the weights might

reach maximum growth arlier, and can be finishod
wore quickly; whereas the Irish caitle, if slower more quickly; whereas the Irish outtle, if slower
in growth, have a greater scope, and, after a cern growth, have a greater scope, and, after a cer-
tain stage in feeding-when the black cattle are
fully fain stage in feeding-when the black cattle are
fully. finished for killing-continue to increase ma:
terially in weight, and ultimately terially in weight, and ultimately produce a heav.
ier carcass. PRICES OF MEAT AND OFFAL,
Reef in Smithfield is bought and sold at much per stone of 8 pounds. and sold at so
cording to quatity are usually ations according to quality are usually given in terms of
this weight. The following report rates for the different kollowing report shows the
kets for one meat on the marticular London (Central)--A fairly good quality was avalable this morning, and had a fair demand, at
firm prices. Arrivals comprised tio tons Scotal 1101 Liverpool sides, 800 Imerican refrigerated
hind quarters and Argentine chilled hind quarters and fore quarters


 3 s .8 d to 4 s . 1 d . seconds, 3 s . 2 d . to 3 s . 6 d .
iore quarters. 2 s .6 d to 2 s . 8 d . seconds, 2 s . 1d
to 2 s .5 d . Argentine chilled hind quarters, 2 s ficotch beef, it will be seen, commands highest price, owing to its superior er inish and
dressing, reaching $7 \frac{1}{2} d$. per pound, or 7 ous. per dressing, reaching $7 \frac{1}{2} \mathrm{~d}$. per pound, or 70 s , per
cut., for the short sides. The long sides are generally from $\frac{1}{2} \mathrm{~d}$. to ${ }^{3} \mathrm{~d}$. per pound, or 6 d . per
Smithfield stone ( 8 pounds), lower in val shorts, though in some seasoms the sides of choice meifens will make as much as the hind quarters of
rough bullocks. The value of the offal, which includes hides
and horns, tallow, head, tongue, tail, feet, kidneys. heart, liver, tripe, windpipe, spleen, blood-
in fact, everything texcent the drussed in fact, everything "xcept the dresped carcass-is
estimated by Scotch butchers at so much per estimated by Scotch butchers at so much per
cwt. of dead-weight carcass. This estimate ranges
from is. 6 d . to 10 s . per cwt , but 8 s . was given as representing most nearly the average value,
taking one class of cattle with another. Thus, taking one class of cattle with another. Thus,
the offal oi a bullock weighing $10 \frac{1}{2}$ or 11 cwts.
which would kill at about 6 cwts. of dressed beei would be valued at approximately $\mathscr{L 2} 8 \mathrm{~s}$.
Ii the effort to develop a profitable trade in II the eflort to develop a profitable trade in
eally first-class meat is to be successfully ac-
omplished in Ireland attention will need to be compished in Ireland, attention will need to be
given, first, oo the yuality of the animals kept,
and their suitability for beef production. The
North of Scotland possesses animals of an admirAorth of Scotland possesses animals of an admir
able beef type in the native Aberdeen-Angus and
their crosses. The demand in Iondon at present
is not so much for size as quality; the black
 high proportion of drensed carcass, are especial-
suited to both breeder and consumer est the ttle, which are inquiries made, the Irish-reared eeding districts. can be equally well and profit-
ithl fattened for the London market. Inded,
werording to an estimate iven ath fattened for the London market. Inded,
nerodine to an estimate given, fully one-thirdof
the cattle which are killed in sootland, and disthe cattle which are killed in scotland, and dis-
posed of in sinithield market as prime Scotch
are Irish-reared. Inasmuch as these cattle represent the best quality of lrish stores, it is evident
that, with care in bieeding and grading, there is
nothine to nothing to prevent Irish farmers from producin
cattle of a type and quality suitable for mat
heting in doaddome form at smithtield.

 unimals thatiny their lirst year's wing given to the Cor varls fattening, and take care that their young
animals do not lose it either through unsuitable licall in Ireland rempesents a very unfavorable conCluatry which requirus to the the Arentially cattle inproved is (:3) The "xtra finish of sotch-fed cattle.
 $2=2+2+2$

THE FARM.
Water for Crops in a Dry Time, Why do we talk so much about the weather and
the crops? The two topics go together. All the cugp the dry periods of summer we watch the
through that "old Probs" has sky for clouds and rain. to say is mere ily paper. Why? Because water

torial in the dal | is essential to a good crop. Alout anc are |
| :--- |
| portant use of the soil is to store moisture. For | every to 500 tons of water are required. Too lit-

300 to months ago farms were
mubmerged, seeding de-
Rut
 covered the ground with its verdure, so that
evaporation was checked and the plant receiv its food and drink. The late-sowed field was
hare 'to the sun ; evaporation went on faster than bereore The greain germinated and took what
bitte moisture it could find. It struggled to
lo litatere or reproduce itself, as plants are bound toter than hulls-a weak, premature failure. ing without irrigation, what results in crops
secured with little rainfall by modern methods seail handling. And yet with the favored :o
sol and humid cli our periodical dry
are serious enough.
are serious enough. if the early rains were only
distributed at proper in perhaps for want of water, but, strange to soy, in thy
ne district with no more roome clouds,
her grain fields are almost invariably to bo same graic fields ara nemost invariably to be
other grain
found waving the banner of sucesss. ilenty of
water fell, but escaped before getting in its work water fell, but
in plant feeding
tingencies?
secur!ng molstitre by drainage. Periods of summer drouth appear to grow more
frequent and severe.
Dairymen cannot even rely Irequent and severe but look to forage crops and
upon the pastures,
the silo. How, then, are the crops to be en sured against dry spells? Let us study our serv
ant, the esoi. to increase its moisture-retaining
capacity. What we have we must hold. Some
cat
 We Moisturc is not the only condition of growth ready-to hand store of fertility, into which in seed
the cast of moisture, and the more readily the plant can
use this watur supply the better.
But from it
plants plants durive crrain elemments, the protuct of de
caying and dissolved soil particles. It is like
$\qquad$
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How TO SAVE MOISTURE,
Now, atter heavy rains compacting the soil,
especially a clay or clay loam, the loss of water

Weeds, and Some Other Things
 -if it gets the chance. Pressure of other work
necessitated an almost complete neglect of the weeds for a few weeks; they took advantage of my neglect in those iew weeks, and had a very tenacious hold on the ground-most aggravatingly
so with the result that two or three hours were required to hoe what ground would have been hoed in one hour a week or so before. While 1
was overtaking this work, some thoughts were was overtaking his work, so mind. I now in chasing them on paper, and the editor of "The
scribe the Farmer's Advocate" may print them or drop them Weeds have an economic value. Those of you who have spent time and labor, which means money. in an effort to get rid of them, may be inclined to dispute this, but
cead con, and see if I can make good this asserIn the first place they are remarkably reliable indicators of character, both of the farm and its occupant. A good farm will grow vigorous,
uriant weeds.
while a uriant weeds, while a por farm will grow
scrawny, illed weds. A good farmer will have the first kind of weeds on his farm, where any
may be overlooked, for his farm will be kept in
 will be found on the farm of the good farmer. Another value that weeds possess lies in the
Cact that they render necessary a very frequent cult that they render necessary a very frequent
cultivation of the soil in the growing season. Any intelligent farmer will not need to be reminded that the soil needs cultivation whether
there are weeds there or not, but even on the there are weeds there or not, but even en thition
farm of the good farmer this frequent cultivation is a thing that might not be attended to as it should , were it not for the weads
Nature detests a vacuum. Nature likewise seems to detest a barren piece of soil, and ir there
is any nourishment whatever in that soil., nature is any nourishment whatever in that soti, nature
will find
of way to clothe it with vegetation. wourse, Dame Nature is not particular as to the kind of vegetation, and she chooses whatever kind she can establish there with the great ost ease. These kinds are usualyerne plass of plant life ac-
throuch countless generations climatized, and, in other ways, rendered hardy for that particular locality, She attains her object.
The barren soil is clothed with vegetation. The
The The parren en place in opposition to the shifting soif is held
infuences of wind and water and frost, and through time, if nature is not interfered with, a
more valuable form of vegetation may take the more valuahle form of vegetation may take the
,llace of the weeds.
of course the farmer
does not always agree with nature in this. It may
suit his purposes better to leave the soil in suit his purposes better to leave the soir in a
fallow condition for the time being in order to
prenare it for the recention of his artificiallyprepare it for the reception of his artificially-
hred and developed, and, in most cases, more
 thought that was wandering around in my brain
that day that diay. difficulties attending the produc-
than
tion tion of a plant very largely, determine its value.
Thistes and burdocks don't require very much
隹 Thistes and burdocks do produce a good crop,
cultivation and work to
but after it is produced the farmer reas no very satisfactory reward for his crop. Celery and
onions, on the other hand, require a great deal
 pays. Stepping from the vegetable to the ani-
mal kingdom, we find the same rule holds good. A ground-ho is an animal we can have fairly sur part. 111 we necd is to provide a goord field
or two of clover cach year, but we don't make yery much money out of the ground-hog. A boy,
on the other hand, is an "animal" most difficult on trise exasperatingly so, but the forished prod-
to
uct, when property grown, is a product the value of which who would dare estimnteto ? I said that weeds have a tuoral value.
Strength, of whatseever kind, is developed by re-
sistance to itself. If we wish to find an effeminate race, we do not go to a northern clime,
where conditions of life are such as would kill off an effeminate race. We go to a southern clime,
 should work in order to live. Our strong men
are not producel in homes of wealth, where every want and whim is pandered to by over-indulgent parents, but rather on the farm, and very often on the farm of mediocre or poor quality, where
the ho is compelled to work out his own salvathe no in his own way; where qualities of resource-
tion fulness stanina and strength are thereby developed. Herein lies one of the main moral values on weeds. l ance to our strength of mind and bods: This thought applies to animated as well as vegetable weeds, for there are insect and animal weeds -
plenty of them - ves we mirht almost sav, and plenty of thenm - yes, we might aradise he told
human weects. human "ectis drove man from Paradise he told
When (iod
him. "Cursed is the ground for thy sake in toil

## THE FARMER'S ADVOCATE.

am sometinies inclined to think that God really
bestowed a blessing on the human race when condemned us to a life of toil. If he had con demned us to a life of idleness we would hav
been cursed indeed. Weeds, animal and vegetable are the cause of a goodly share of our toil and thereby contribute not a little to the building up of humankind into a strong and virile race.

## Plow Early After Hapvest

We have found it a very good plan in a mois or showery season to plow the fall wheat stubble
lightly with a two-furrow plow as soon as eve lighty with a two-furrow plow as soon as ever
the crop is drawn in; then roll and harrow well, and then sow two or three pounds of rape to the acre, harrowing well and rolling again. We did
this last season, and had quite a crop of rape this last season, and had quite a crop of rape,
which the pigs ate greedily for a considerable time Some seasons it is rather dry, but generally there is moisture enough to start the rape. The weed
seeds generally start as well as the rape. The seeds generally start as well as the rape. The
ground can be plowed again a little deeper just
before winter, and is left in good shape for next spring's crop, whether roots, corn or grain. We
prefer, when possible, to plow very lightly the unseeded oat stubble, then harrow and work up fine, and before winter plow deep, but if the ground is very hard and dry, it is sometimes impossible to plow very lightly; then we plow an ordinary fur-
row and harrow and disk the ground up afterwards. I believe that it pays to work up the unseeded stubble ground as quickly as possible after the crop is taken off, as it gives all the and we then get rid of them. hat it pays to work it up well in the fall, and, too deep, before winter. But we scarcely ever get manure enough ahead to do that. We enve no
unseeded oat or barley stubble this vear. Some unseeded oat or barley stubble this year. Some
seasons we have sown rape with the oats; in that seasons we have sown rape with the oats; in that
case we did not touch the ground until nearly
winter, as the young cattle were pasturing on the rape.
One fall, some years ago, we plowed the land intended for roots very lightly, and then har-
rowed and worked it up well, and then before winter manured and plowed again; and in the spring we just cultivated good and deep, and then drilled cleaned. We cannot follow the same procedure every year. We have got to accommodate nur-
selves to the weather conditions and the varying seasons.

## Soil Conditions for Wheat

sunny South to what quantities than any other grain; it is one the most, if not the most, nutritious of all our
cereals, and it is consumed in immense cuantities as human food, forming one of the cheapest and
best articles of our diet: consequently. we cannot be very far astray if we call it sur most There is an abundance of evidence to prove
that the composition of wheat is influenced by its environment. Millers are familiar with the fact that some districts in Ontario will produce a much spring wheat of the Western Provinces is superior mate, incluting variations due to season, and
soil, or, rather the condition of the two main factors influencing the composition of wheat. To obtain a good quality of wheat for
milling purposes, we require bright, warm days. excess of moisture, or, in other words, the of an-
ditions that would cause rapid, though normal. ripening of the grain. lightest or sandiest, alt hough fall wheat will even do well on these; but, in general, it may be said soils. The main points to be considered are that of readily-available plant food wresent. age, or he underdrained, and, with clasey solis
the land should be thrown up in narrow ridges. to insure kood surface drainage. For obvious reasons, this is more essential with the autumn
than with spring-sown varicties.
To insure the abundance of available plant To insure the abundance of a vailable plant
foot, wheat should follow a summer-fallow or a hwaminous crop, such us alover or peas. "Th
natural richness in potash, leave the soil rich in these constituents. In preparing the soil, the oba firm undersoil that will not dry out too quickas early as possible. so as to allow it be plowed packed down, and by surface cultivation produce the fine seed-bed, and, at the same time, conbeneath. The demands made by the wheat on the land ound hot heavy. The following table shows the the soil by a few of the common farm crops :

## 

 epting after experiments in a small way have demonstrated that they can be used econo have to 75 quite possible that a light dressing of 50 in the spring, if the wheat sha per acre, applied of going Kegarding the effect on the quality of wher mental Farm manuring does not improve the demonstrated that it will increase the vield. The invest, although nent Shutt, Chemist of the Dominion Experimental Farms (Society of Chemical Industry April 15 th, 1909), shows that the quality of thewheat is influenced by the natune of during the ripening period, and by the weather of moisture in the soil. He concludes that one

 of the main factors in the production of the
white, starchy grains, commonly called bald" wheat in the Western Provinces illed "pieure in the soil. In our own Province, the peculiarities of the soil of own Province, the pe-
known to produce the hect known to produce the best wheat have not been
tudied out. It is probable that tudied out. It is probable that allowing grain
o become overripe tends to produce a starchy kernel, which is not of as good qualit,s as if it had been cut at an earlier stage. IR. H.ARCOIRT, Frof. of Chemistry.

## Cement Paint

 ut in suitable can or pail, and add enough color-
 add enough milk (whole milk with cement, then add enough milk (whole milk is best) to make the
cement of the consistency of thick cream, and apwhe with an ordinary paint brush. This is what is called cement paint. It is
cheap and durable. It will last for several vears Fheap and durable. It will last for several years.
For painting fences and buildings, it cannot be ber painting fences and buildings, it cannot be
beaten, for it can be used on rough boards as
well as smooth. lied is the color generally used.
if coum porer If you prefere light red, get Venetian red coloring,
but red oxile. I think, is best. I coat of paint kreatly improves the appearhat you can paint so cheaply, there is no excuse or anvone not painting his buildings, etc. It osts used with woven-wire fencing. The feven ences are now to be had painted white, and if ou taint your posts red, you have a very fine-
ooking fence. Paint adds greatly to the value and appenarance of one's place. Get busy and

In using ahove it is well not to mix up very Wuch with the milk at one time, as it inclines to It will be seen that 30 bushels of whent 1 bed

The Loose-stone Nuisance.
rom the soil approximately one-half as much
hitrogen as 2 tons of clover hay, or 14 tons of Swedes, and about one-third as much as 22 tons of potash. Wheat is a deep-rooted plant and appanently can collect its supply of potash someuring the s doubtless due in part to the season of the This on which it makes its growth, for the fall and down deep into the soil, and the actual growing reriod of the plant does not continue in the menced. shown above wheat is an inexhecomrop, in the sense that it dooc an thexustive Whatities of plant food from the soil, but it is casion to take some beos to an out apiary in of ically no residue, and wasually nearly all the proc- as lititio jar as posciblus. It was in the spring of Wh aloo on the farm. Judging would not be figures giv- the far and narrow ruts had formed from one
 Gotation but, as wheal is commomly a short a loose ston" that had fallen into a rut. There is to the mones crop, the practice in many plates "orse. is not only, however, when ruts are formed
 of phowing down an clover sod, there is thanker of Take any oi our wratel roads, at least in this
so retarding the work of preparing the land that and will find lonse stones from the so retarding the work of prepharing the land that ize of a hen's wigy to others the stones from the


$\square$



 . sulbect. Tam prompterd yy an crititrial of yours of some tince ayo. 1 revret that 1 cannot quote that the iolt and int whys $I$ can revall. One was, tren wht wand dar when diviving over our count to the horme and the other was the annovance mater thane at ane business ifs a more serious have protuat aty nevere thoushi moth suppose. Many Si.s shoured. shorty rer readine your wditorial I had oc.


Count them some day if out for a mile, and mul
tiply this by the number of miles travelled in or day, and then this by the number of miles travelled in a year, and you will have some idea
of the importance of this matter. With buggies and other spring vehicles we are not so apt
antice them, but they are there all the same. Sometimes the wheels will strike them fair and square, both the shoots in one direction and the times the stone shoots in one direction and the wheel
in the other. When one considers that this goes in the other. after day, and year after year, the wonder is that our wheeled vehicles last as long as they do. I venture these would be doubled if such the duration were removed. East of your farm for a distance of two miles is a nice smooth road, with all loose stones removed. West of you we will suppose the
opposite. Would it not do your buggy more harm po one mile west than two miles east? I believe that you would rather it would go over six miles of the one than one of the other. It is my conviction of horseflesh, would pay the ex, pense of removing them ten times over. Some of us have seen a mason at work. There
is a big hard stone he wishes to break. He decides where he wants down his big hammer again and again he brings down his big hammer again and again, ap-
parently to no effect. Time will tell, however, and by and bye the stone separates into two or place every time a wheel strikes a stone, loose or otherwise. It speaks well for the manufacturer that rigs stand as long as they do. Watch the
tongue of your waggon some day when drawing loe it sway from side to side stones, and as you see it sway from side to side, as one or the other
of the front wheels passes over obstructions, you will be free to admit that neither the editor of
"The Farmer's Advocate" nor myself have magnified this nuisance. Just how much injury is done to horses from stepping on these loose stones, or how much of a saving of horse power, or how
much in dollars and cents on vehicles would be saved were they removed it is difficult to estimate many times over to employ a man to remove them with a garden rake, if necessary. Better than, this, though, would be a machine, built after
the style of a side-delivery hay rake-something that would adapt itself to any unevenness in the rood, and that would clear it of everything larger
than a pigeon's egg. They could with this be than a pigeon's egg. They could with this be
put out far enough so as not to interfere with
vehicles passing or lowing spring 1 would run the machine the opposite direction, and bring them the center, and have them where they would do good, and be soon
out of sight. and annoyance for evermore. Or, if preferred, a machine could be made that would gather them up and they could be conveyed where
they would be of some use. The cost would be trifling in comparison with the good that would be done. As things are now, they are rolled
from center to side, and from side to center and over again.
Last summer I had occasion to travel over
newly-gravelled road. newly-gravelled road. It was put on to the
depth of fully eight inches, and on the top were stoues oi three and four inches in diameter. It
is bad enough to put stones of this size on a road at any time (a common practice, however), bu
if thev were raked to the bottom with the fine top. it would not be so bad. Sometimes, how-
ever, stones of that size too frequently come too close to the surface, "specially in a dry season.
It has been truly said that the only time of the year been truly said that the only time of the
year good roads are possible, they are
spoiled by a coatine spoiled by a coating of gravel. If, however,
nothing was allowed on them that would not go through a two-inch ring, and the finest on top,
the trouble would soon be over. I was a little surprised to find how quickly a coating of fresh
gravel is gravel is fit for travelling on, harring the loose
stones that are bound to appear. Sometimes the Stones that are bound to appear. Sometimes the
sides of the road are very good, so that an effort. sides of the road are very good, so that an effort
is made to escape the abomination; at other times there is not much choice. Again, we find holes
filled up, and the remedy is worse than the disease. filled up, and the remedy is worse than the disease.
Stones near cight inches in diameter are found hene, and on toph at that. if diameter are found
broken a brick yard, to come. Herse pow, and are a menace for days
is the abuse of a may be very good, but is the abuse of a good thing to use it to level
obstructions on highways with costly vehiclec Many who have charge of our country roads are
negligent of duty. Stones six inches and mor in diameter are left there year after year, some partly and others fully exposed; sometimes an
old stump relic of former days is allowed year
aiter aiter year to project dangerously above the level.
Such thinus are tolerated vear country that would not be allowed to exist for a day in the town or city. In more ways than
one it will pay to give more attention to ridding our highwas of the loose-stone nuisance. Not
two hundred yards a way is a horse that hat lame for days from stepping on a loose stone
It is a distaken idea proves a road. As you said in a recent editorial
we must, let it be done understandingly. Not a
mile from here a grading machine has been at work, but those in charge seemed to have no
thought about the number of loose stones, large and small, that are left to be a nuisance. You have been and are doing a good work, Mr. Editor, in bringing this good-roads question more prom-
inently before the public, and if for no other reason, every farmer should be a subscriber to "The
Farmer's Advocate," for who can estimate the Farmer's Advocate," for who can estimate the
value of good roads, especially to the farmer? If only the wealth that is being squandered on war material were used in road improvement, how
much better it would be but much can much better it would be, but much can be done
without it Huron Co., Ont.

## A Commodious Farmhouse.

 The farm of Wm. Hartley, whose spacious resi-dence is illustrated on this page, is situated thre miles from the town of Milton, in Halton County Ontario. It is piped with spring water from the mountain, about one-quarter mile distant, and


Farm Home of William Hartley, Halton County, Ont
cialty is small-fruit-growing, and his farm of over 100 acres, sheltered by the mountain, he finds an berries, gooseberries, currants, cherries, and apples. At the time the photograph was taken,
the men were too busy in the fields to be photo

## A Perfect Earth Road

The accompany ing illustration shows $\frac{1}{2}$ mile o prize two vears ago, in "The Farmer's Advocate"


Mr. Young's Three-piece Drag
This road has now been dragged for the third season and is show in perfect condition. Situated in
ear it has been worked with the split-log drag. You will notice the drag now in use has three, head of two blades. It's like a fointer plane on The introduction of the split-log drueg has done much to improve the earth roads. The trouble is so fow have the right idea either of what the
they get the drag quite too long. If a flat road were wanted, a long drag might be all right, if rounded road, great length is no use. But the greatest mistake is that the roads are nearly all of ditches. This can be kept in shape with half the work that is required on one 25 feet wide. Some have them 30 feet, and even more. It doesn't require a wide turnpike or a deep and
A rounding road is wanted, and an even-grade ditch, so no water will stand in it.
Wentworth Co., Ont.
JNO. JACKSON.

## THE DAIRY

The Quapter-inch Wire Knife. Among the numerous improvements in cheese inch wire, perpendicular knife, together with three-eighths inch horizontal knife. Chief In-
structor Frank Herns has thus explained to "The Farmer's Advocate" the successive steps that have led up to this stage The old style half-
inch knives cut curd inch knives cut curd
in coarse cubes, which were very difficult t firm, particularly i a little fast. Wofte a little fast. Ofte
these cubes werr broken up in the han dling before dipping
liberating con sider able fat, and in man cases causing los from the small co ners broken off, im
possible to when the whey wa drawn. The curd a so contained to
much moisture, unles much moisture, $h$ hey in a considerable lengt of time. First, a
three-eighths inch wire three-eighths inch wir for the perpendicular cut, making a block
$\frac{3}{8} \times \frac{1}{2}$ inch, which was $\frac{1}{2}$ inch, which wa
again cut the fourth
time in time in order to get it fine ernough, curd. Then a curd. Then a
duced with the horizontal knife was intro
$y_{8}$ perpendicular wire knife, which duced with the perpendicular wire knife, which
made a very nice cut, and gave a cube -inch square, and no doubt is all right for normal milk, except in cases where it is difficult to get the curd frm. perpendicular knife, with a $\begin{gathered}\text { f-inch horizontal knife, }\end{gathered}$ gives excellent results, since the curd has only to be cut three times, once with a horizontal knis and twice with a o perpendicalar knife. This
gives a curd
even with fairly even with fairly fast working milk, without rough handling, and ensures under average conditions a curd thoroughly cooked before sufficient acid has
developed for dipping, which is one of the main developed for dipping, which is o
secrets of successful cheesemaking
Prefers the Gathered Cream System.
ditor "The Farmer's Advocat, have taken
As a reac your discussion on the merits a keen whole-milk creamery, as against the gatheredcroem system, and have no hesitation in saying
that I prefer the latter, after trying both for a number of years.
The chief drawbacks which I found to the former was the time and expense of Kauling whole milk to the creamery and the skim milk back. Apart from the poor quality of the skim milk, it, I found the transportation problem sufficient it, I found the transportation problem, sufficient
to induce me to buy a cream separator, which is
no harder to keep clean than a lot of heavy milk cans. When one takes the whole milk it entails keeping a horse in the barn all summer-no little expense-for if you have to catch a horse in the
morning all your ncighbors will get there first, norning all your neighbors will get there first, milk spout comes, for it soon develops into a race
of who will get there first so as to get back early. will get there first so as to get back With a cream separator in your barn you do not have to get up before the crows all summer
o milk, nor listen to the calves roaring till they are hoarse on Sundays, or feed them whole milk, and even if we do lose a couple of cents a pound deal better off than under the old whole-milk sys Compton Co

lant of the Bright Chese and Butter Manufacturing Co., Ltd. Made last year
$\$ 62,181.18$ worth of cheese and butter. Has splendid modern cool-curing room.

## Some Facts Aloout Milk.

 About one-sixth of the total food of the aver-age family is furnished by milk and its products age family is furnished by milk and its products,
according to Farmers' Bulletin 363, "The Use of Milk as Food," recently issued by the U. S. De-
partment of Agriculture, to supersede an earlier one. Of the various mammals whose milk is used for tioned the goat in the hilly districts of Europe, the buffalo in India, the llama in South America, the camel in desert countries, and the mare on the steppes of Russia and Central Asia. Sheep's milk
is used in some countries for making cheese and in other ways, and the milk of reindeer is commonly used as food in the arctic regions. With us the milk of the cow so far surpasses all other
kinds in importance that unless otherwise specified the word milk is taken to refer to cow's milk only.
Good, unadulterated milk should contain abou 7 per cent. of water and 18 per cent. solids.
Milk contains bacteria of many kinds and varying numbers. They cause the souring of milk as well as the ripening of cream and cheese, and groduce many other changes in the appearance and
lavor. The number present in freshly-drawn milk favor. The number present in freshoy-drawn mik
varies enormously with the conditions of milking, and, as they are greatly increased with dirty and
areless handling, cleanliness in all matters
and areless hancring, Cleaniness aring to the milking and marketing of milk and keeping it in the home cannot be too strongly in-
sisted on. Disease germs, notably those of typhoid, diphtheria, scarlet fever and tuberculosis, the milk supply is of The problemm of keeping milk sweet is one of

## staple vegetable products. Mil

 Mitk, however, r thoroughly digested than most vegetable foods. As a source of protein, the most expensive of thnutritive ingredients, it is especially economical Skim milk, which is whole milk minus part of its fat, and which costs only half as much as whol milk, furnishes protein about four times as cheap
ly as beef. Foods prepared with either skim or whole milk are much more nutritious than those

Feeding Whey to Calves.
Regarding my experience in feeding whey to calves, I raised two last year, and am raising six
this year. I fed them new milk for two weeks, then gradually changed in the next two weeks to skim milk, including a little oil cake and low-
grade flour. I mix the oil cake in boiling water grade flour. ${ }^{\mathrm{I}}$ mix the oil cake in boiling wate
first, then add the milk and whey, then 'stir ir first, then add the milk and whey, then stir in
the flour. Next month, change from skim milk to clear whey, with oil cake and flour. I also gave them dry shorts and oats, as they would
eat. and kent them in the stable till Jul they are out on grass, and am giving them whey ing nicely, and have had no drawbacks. I would warm at night. when fed. 1 clean my tank once

Pasteurized Whey for Calves



A cool-curing room, built according to the specifications of Dairy Commissioner Ruldick, is o be found at the Bright Cheese and Butter Co.'s $28 \times 70$ feet, with a 12 -foot ceiling, which, however, is higher than necessary. Nine rows of shelves afford capacity for over 1,000 cheuse. At the end of the curing-room is an ice chamber about one-third che chese are contained, the same width which three feet higher. The air delivered from the curing-room passes over the ice, down hehind the and underneath the false bottom which supports the ice, being again delivered into the curing-room
through two vents near the floor, about $18 \times 10$ inches in area. Slides regulate the draft. The return flues run along the ceiling, commencing at
the end of the curing-room, remote frome the hamber, and emptying into it as above indicated by this system the ail in the curing-room can be degrees pretty uniformly throughout the to 60 at an expenditure for ice of about $\$ 50$ or $\$ 60$ per vear. The only attention required is the occahermometer. The close body, silky texture and mild, clean flavor of the cheese as hored in the middle of Col-curing on the quality oi the goods. Chief lairy Instructor Herns thinks if we had such curwould advance $\frac{1}{2} \mathrm{c}$. per pound, besides a considerable saving in shrinkage, amounting in hot weather, perhaps, to a pound on the cheese, depending, however, upon the length of time the cheese re
nained in the curing-room. mained in the curing-room, $\Lambda$ ventilator in the
center of the room provides for an occasional hange of air. This is opened about twice a week, the doors of the curing-room being opened
at the same time to give a draft.
Sulphur is hurned two or three times a week to guard gainst the development of mold. One of our illustrations shows the house pro-
ided by the Bright Cheese and Butter Mfy Co for its maker. The day has gone by when a com petent cheesemaker can he employed to make for of an insanitary factorv live over the make-room house of this kind isia strong inducement for good men to remain in the business.

## Cow-testing Revelations.

In one cow-testing association the average pro-
duction of 126 cows was 520 1hs milk and 20 lbs.
fat, not very much below the average of exactly
126 cows in another association close hy, which was 609 lbs. milk and 26 lbs. fat. But notice how tremendously that comparatively small dif-
ference affects the total vield; for in the one case
 and $3,267 \mathrm{lbs}$ fat, but the other lot of 126 cows
tave only 65,546 ths. milk and 2,510 lbs, fat: or. llowing butter-fat to be worth 25 cents per lb, actually a difference of $\$ 189.25$ in one month. Why artuat a difterence of \$189. 25, in one month. Why
are not thousands more of our dairy cows made
to carn an cxtrat dollat and an half per month for
 tain, through having tested wach cow in the herd
individually, which animals are hringing in a good
profit. thell the aterare Aether contrast shows that 100 cows in one miles anays there w.o. thus 25e association more to be that the other cows could have used to better adantage, for twents secen pouncls less fat. Weigh-
ne and
nosting is the quickest and surest way of

Pasteurization and Bitter Flavor.

Maker's Residence at Bright Factor

[^0] In tind


The Influence of Pasteurizing on the Food Value of Whey.
In the June number of "The Farmer's Advo-
cate," Mr. Frank Herns, Chief Dairy Instructor, Western Ontario, dealt with the practical points in pasteurizing whey, and showed some of the losses of food constituents that occur when the whey is not pasteurized. I have been asked to
deal more fully with these losses, and I shall do deal more
so in as brief a manner as possible
so is not necessary for me to restate the ad-
It
vantages of pasteurizing whey. Patrons and makers recognize the fact that there is a more
maven distribution of fat, and that, consequently even distribution of fat, and that, consequently
the patron gets the fat, instead of it being left the patron et ank. Patrons also know that the whey is sweeter and more palatable; that the cans are more
numerous other advantages.
it It is a well-known fact that the feeding value
of any food depends upon the amount of digestible protein, fat, carbohydrates and ash it contains, and upon its palatability. In this case
we nray assume that one kind of whey will be as digestible as the other, and that the advantage
in palatability will be with the sweeter article. in palatability will be with the sweeter article.
The chief difference in composition is shown in The chief difference
the following table
$\begin{array}{cc}\text { Pas- } & \begin{array}{c}\text { Unpas- } \\ \text { teurized }\end{array} \\ \text { leurized } & \text { Whey. } \\ \text { Whey. } & \text { Whey }\end{array}$

## Fat Frotei Sugar Acid

The pasteurized whey contains the most fal and sugar. The increased acidity of the unpas
teurized whey has been formed at the expense of the sugar, and, consequently, there is less sugar left in the sour whey. All digested food may be
burned in the body to produce heat and energy, hundred pounds of each food is capable of prolucing, we can make a closer comparison of the
lutritive value of these two materials than is notsible from the composition alone. The unit of heat is called a calorie. One pound of pro-
teid. or one pound of sugar, is capable of proteid, or one pound of sugar, is capable of pro-
ducing, when bunned in the body, approximately 1,860 calories, and one pound of fat will give
t,220 calories of heat. Using these factors and the percentages composition given above, we find that a hundred pounds of pasteurized whey will
produce 11,918 calories, while the unpasteurized substance will only give 9,837 calories. Or, the heat value would be in the proportion of 1.27 for
pasteurized, and 1.00 for the unpasteurized whey: pasteurized, and 1.00 for the unpasteurized whey,
c'onsequently, if unpasteurized whey is worth ic Consequently, if unpasteurized whey is worth
cents per hundred poundis. then pasteurized whes
is worth is worth 12.7 : or, to carry the comparison
further, the unpasteurized whey would be worth S20 per ton of chese ( 20,000 pounds of whey), ber ton of cheese. a difference of $\$ 5.40$ per ton
of cheese. The cost of pasteurizing will depend on the size of boiler. location of tank, method followed, experience in operating. etc., but Mr .
Herns places the cost at 50 c . to $\$ 1.00$ per ton Merns places the cost at soc.
of chese (20, (het) pounds of whey), or an average
of 7 , cents per ton. beducting this from the
 the increased value of the pasteurized over the
unpasteurized whe from one ton of chese. In
addition to this, there is the satisfaction of working with a cleancr article of food, and of knowing
that better use is being made of this valuable py-product of the dairy. Another pent of interest in connection with
milk and its wroducte is the distribution of the milk and it products is the distribution of the
constiturnts of milk in cheesemaking. It is frequently stated ond correctly, too-lhat, in ma ing cheese. nearly onc-half of the milk solids
ost in the whey This is certainly a good r son why the wiry lrest possible use should
nade of the whe: But, when this statement ancern is not invas: whate tlear that the most
 No. uhm

|  | From 100 | lbs. milk. |
| :---: | :---: | :---: |
| 100 | Loss | Recovered |
| unds | in |  |
| milk. | whes. | heese. |
| Water, 1bs. ......... 86.79 | 80.89 | 3.59 |
| Solids, lbs. .......... 13.21 | 6. 11 | 7.11 |
| Ash, lbs. .............. ().64 |  |  |
| Fat, 1bs. ............ 4.00 | 0.34 |  |
| Casein and albumin, lbs. |  | 2.90 |
| Milk sugar, lbs. ... 4.50 | 4.30 |  |
| In the first case, where fat, the solids were alm | ere was equally | per cent ided, and |
| in the second there was on | pound mor | solids in <br> if we look |
| the cheese than in the ore closely, we find that |  | e proteids, |
| sein and albumin, and | make | nearly all |
| e solids of the cheese, | ereas th | hey solids |
| nearly all sugar. | we comp | the heat |
| ue of the solids in the | ey an |  |
| found that we have 10 | calor | heat |
| whey from one hun | pounds of | milk, and |
| 132 calories in the | ; or, 37 | t. |
| value is in |  |  |
| eese. In the case of | -per-cen | milk there |
| is 10,934 calories of heat | wh | and 20,839 |
| n the cheese; or, 34.4 per | ent. of | fuek value |
| or. | the chee |  |
| ently, while approxim | one-h | ht |
| the milk solids are |  |  |
| little over | hird | fuel or |
| gy value of the milk | This is | rtainly a |
| y large proportion, but | is evide | that it is |
| correct to assume th | because |  |
| ( | whev, on | -alf of the |
| od value goes with it. | It is als |  |
| at, if one-third of the | d value | the milk |
| es into the whey, this p | , |  |
|  |  |  |
| urishment from it |  |  |
|  |  |  |
| is one step in the |  |  |
| A. C., Guelph. | R. HA | COURT |

Milk Records in Scotland.
Milk records have come to stay, but it is al-
ays well to be adding to the stock of evidence in support of their utility, says the Scottish Farmer. A gentleman with strong commercial in-
tincts, who farms for amusenent, was so constincts, who tarms for amusenme, was so conregular milk record being taken of all his cows.
that he established a daily milk record in his herd that he established a daily milk record in his herd
of Ayrshires. His foreman scouted the idea, and carried through the work in an attitude of noncarricd through the work in an attitude of nonostentatiously left the taking of the record "to he women," and, as he was otherwise a faithful
servant, his master left him severely alone. The cheets were handed regularly to the owner, and the totals were known to him alone. The ioreman did not consider them worthy of notice. "It
was just a fad" By and bye the foreman desired was just a fad." By and bye the foreman desired
to take a little farm of his own, and approached his master deciring to purchase some of his cows. one in particular he was very anxious to have,
and that one, although she was for sale, his mas-
ter resolutely refused to sell to his old servant.

The latter could not understand the attitude, and
asked an explanation. His master asked him how much milk did he suppose that cow was giving? milker, and he supposed the return might be from 700 to 800 gallons." His master informed him that he had been caught in his own snare. If he sold him the cow Her return was 486 gallons and there was no prospect of improvement, as the returns attested by his own wife showed. The servant thanked his master, and subsequently came and inquired where he could get "yon kin'
0 ' weighing things," as the wife and he were thinking there was something in the milk records after al

## Daipy Odds-and-ends

So far, we have not heard of any creameries
losing down, or of any dairyman disposing of his cows because of the report that butter has been made from petroleum. It is just as well to wait
a while before taking any decided step in this direction. The petroleum-butter story looks like a fake, and on a par with many others that have a fake, and on a par with many others that have
crossed the path of the dairyman in years gone

The story goes that some chemist had ocproducts were revolved, and, to his great surprise. the result of repeated revolutions was the production of a fine quality of butter

Whether Canadians can leam anything by a study of how the Danes have captured the British creasing numbers, or not, notwithstanding the fluctuations of the market, they are able to teach
us something in dairying and cow-keeping. The us something in dairying and cow-keeping. "The
report of a Danish creamery that has been in report of a Danish creamery that has been in
operation for 25 years, shows that in 1884 it took 28.9 pounds of milk to make a pound of of milk to get one pound of butter. In 1884, at of milk to get one pound of butter. In 1884 , at
this same creamery, the milk delivered averaged 3,817 pounds per cow: In 1908 the average hed increased to 5,883 pounds per cow, In 1884 there were 51 patrons and 400 co
are 260 patrons and 1,700 cows.

Some investigation, done at a Michigan cream ery last season, shows some startling results. The lowest return was $\$ 22$ per, cow for the sea$\$ 1.00$ expended on feed. Another patron received $\$ 79$ per cow, or $\$ 1.95$ for every dollar expended on feed. And so it goes. The profitable and tory and ory and creamery. The
ive only one mile apart.

In testing cows, and finding out which are the ood ones, a dairyman cannot be perfectly sure his ground unless he takes into account the quoted from Michigan, if judged by the cash return from the creamery alone, one herd gave a moturn $3 \frac{1}{2}$ times greater than the other. But if

the comparison is made on the returns for every
dollar expended on feed, the one herd is only $2 \frac{1}{\text { a }}$
times better than the other one.
This does not mean that cows should not be well fed. The only way to get profit out of a
cow, if there is any profit in her, is to feed her
well. well. Note the Michigan comparison again. The poorer cow, though it cost less to feed her than
the good one, caused her owner a loss of 24 cents for every dollar expended on feed. The other
cow returned a profit of 95 oents for every dollar expended on feed.

Makers who intend exhibiting cheese or butter at the fall exhibitions should pay strict attention tractive. Regarding the manufacture, we have nothing to say just here. There are, however,
little things connected with the finish of a cheese, or the neatness of a package of tuatcr, that count exhibitions there has been a marked improvemen in the finish of cheese in recent years. Last year, at Toronto, several packages of butter were careless packing

even, smooth surface for the judge to put his \begin{tabular}{l}

| even, |
| :--- |
| trier |
| deal. | <br>

\hline
\end{tabular}

## POULTRY.

## Poultry-ppoducers' Association.

 A meeting of the Poultry-producers' Association of Eastern Canada was held at Ottawa, July 18th and 14th, and the "Objects and Aims of th Association" was the subject of the address by
Mr. A. P. Hillhouse, President, which was as folAlthough we do not hope at first to revolu do hope to remedy certa in existing conditio which are greatly to the disadvantage of the in-
dustry as a whole. dustry as a whole
The backbone of the poultry industry is the now and in the future may contribute their plant. yet for some time fully ninety per cent. of thei products will owe their origin to the farm, so one
of our first aims will be to assist farmers.

Most farmers are small producers of eggs and able nature of these products they do not produc enough individually to make frequent and regula shipments to distant or best markets.

To assist these conditions, we consider that a
operative system might be established in various localities and eggs and poultry brought in to a central packing and shipping point. At pres ent farmers have individually small lots that can
not be marketed till they are stale. These could be gathered together and would make a sufficient parcel to be shipped while still fresh. This would
do away with the present wasteful system most do away with the present wasteful system most
universally practiced in all parts of the country
of marketing of marketing eggs at the village grocery in ex change for goods. No attention is given to age
or quality; they never reach the consumer until or quality; they never reach the consumer until
long after their best is passed. The egg is at its best when just laid, and the longer time taken in worth.
Then
Then by establishing grades for these eggs we
believe the whole trade will he or We do not want the saying that "an egg is an
egg'" to continue. We all know that there are vast differences in eges, all know that there are say these are "Selects" or No. 1, from Stan
bridge, from Farnham or Bondville, as the cast may be, and we want them to be selects and No

1. We do not want there to be any question bui 1. We do not want there to be any question but
that they are just what they are represented that they are just what they are represented and
graded to be. We want the dealers and consumers to be able to order whatever grade they want,
knowing that they will receive that grade and knowing that they will receive that grade and pay for it, and get value for what they pay.
The same with poultry of all kinds. We want
more produced of the better quality and less of more produced of the better quality and less of less at an unprofitable price. This is in the in-
terest of the producer, dealer, consumer and the The farmer should not sell his poultry for
ieven or eight cents a pound as they run, when seven or eight cents a pound as they run, when
by two or three wecks more of crate-feeding doubl.
this urice might be ohtained. Farmers fatten this price might he ohtained. Farmers fatten
thecir attle and their hogs. Why should they
not fatten their poultrys. There is no place Wot fatten their poultry", There is no place
in killing, plucking and packing, quantities too small for even cases, lack of knowledge of the that mared, eggs that have been found under sitting ists between the producer and the consumer ex- hens, in iact, all eggs that cannot be guaranteed Under our proposed system of co-operation with central packing and shipping centers all those
difficulties will be overcome. Farmers will not be required to do the plucking, packing or shipping, capably and satisfactorily for them At present it is not the intention of the assobranches, but to assist in the bringing the conshipping as direct as possible, and through as shipping as direct as possible, and through as
feve hands as practicable. All members will not
receive the right to the use of the brand of the receive the right to the use of the brand of the
association, except where there is a local branch association, except where there is a local branch
and the produce is shipped through the local manager, or, perhaps, in exceptional cases, where
the individual may not have co-operation privthe individual may not have co-operatio
ileges.
1leges.
The gradings may be severe, but none too se-
vere for an association that wishes to have its It is not expected
market large quantities under the brand this year. quantit rather pay more attention to quality than The following were the grades for dressed poul-
try and eggs adopted by the meeting, and also
rules governing members:DRESSED POULTRY-SELECTS.
To consist of specially-fattened chickens, extra
well fleshed, and of superior finish and appearance,
unbroken skin. without hlemish unbroken skin, without blemish, straight breast dozen recommended by the Department of Apricul ture and illustrated in Bulletin No. 7. One package shall include only birds of a uniform size and To consist of well-fleshed chickens of neat a packed in neat, strong boxes.

To consist of fairly-fleshed chickens, packed in neat, strong packages,
The term "chicken" shall mean all birds under FOWL. Meaning hirds not over two and a half years
old, shall be graded the same as chickens, but
shall be marked fowl and must not he mive hickens. Cocks must not be included in these grades.
Birds that have been sick or show any indica ton of disease; birds that have food in the crop,
that have decidedly crooked breast bones have blood or other dirt upon their bodies, shall All birds must be dry-plucked, gradually thoroughly chilled before packing, not dipped in water. Put on the market undrawn: having head GRADFS OF EGG:S-SELECTS. not less than twenty-four ounces to the weighing Clean, of uniform size and color, packed in subNo consist of new-laid cggs, not less than twenty-two ounces to the dozen. Clean, fairly
uniform in size and color, packed in substantial neat cases with clean fillers.
During the months of November, December and January, the weight clause shall be reduced bis
 stantial cases. trade eqgers must be marked with the remistered RILIES FOR MEMBERS OF BRANOHESA. 1. - Wach member should bear in mind that the prices, but to raise the standard of poultry prod-
uce and to make the trade mark an atholute ats-2.-All produce of a kranch must be shippent through the central depot, and the packakecs must
bear the trade mark. grade and number of that
Bronh of the Branch. He must see that all the ondputs are mroperly marked, and that all membert Let full
galue for produce offerecl. In casin complaint against an Mranch, the manager omuse line
5. - None but artificial eggs must be used for
Eggs must be gathered at least nest eggs. Eggs must be gathered at least once every day, and must be stored in a clean room,
cree from any deteriorating influences, and of free from any deteriorating influences, and of a
temperature not to exceed sixty degrees. temperature not to excecd sixty degrees.
6.-Eggs must be delivered to the collect or, or
brought to the central depot as often as roquusted brought to the central depot as often as requested 7.-No egg on hand but not delivered at any 8.- No birds shall be offered for sale that show signs of disease or are known to be diseased.
9 .-Any member found guitty of violating any of the ioregoing shall, on the first offence, be
fined not less than one dollar and in second offence be expelled.

## APIARY.

## Races of Bees.

bulletin recently issued, there are 1050 to bulletin recently issued, there are 1,050 bee keeper being but 5.5. There are but two beekeepers in the State who report having 100 col-
onies or over, and very few who have even 50 each. This lack of beekeepers who make a specialty of the business, and who are experts in
it, is accountable, according to the writer of the bulletin, for the small yield of honey per colony. Onis is given as amounting to only 24 pounds. in the bee industry and give needed information, so that both the yield per colony and the average
number kept may be greatly increased number kept may be greatly increased. We quote bees: Among the bees of Massachusetts are found
representatives of those hept in all parts of the
Inited States United States. They occur only in relative de-
grees of purity, due to the fact that young queens grees of purity, due to the fact that young queens
often mismate. "Hybrid ". means any cross between recognized races, but more particularly and
generally the cross between Italians and Germans. tTALIAN BEES.
According to the data at hand, 594 beakeepers
say they have Italians. This does not mean pure Italians in every instance, but it does indicate phat practically half of the beekeepers who reion. Furthermore, 342 report they have hypreted as a cross between Italians and bermans. adding this to the number who report Itallans, it makes 936 , or about 80 per cent. of those This clearly demonstrates the popularity of the

There are several strains of Italians, such as "long-tongued,", or "red-clover,"" and " golden," strains are all found in Massachusetts angh these strains are all found in Massachusetts, data con-
cerning them is not sufficient to decide their rela-
(GERMAN BEFS. Garce. In the County of bes are exceedingly
Wascester the writer has seen what he believed to have been the pure-
blooded Germans, hut these colonies are seldom met with. Although 196 persons report that
they have (ierman brees, there is as much or even more doubt that these are strictly pure as even
is doubt that all of the Italians reported are pure. This race, at least in Massachusetts, is destined to be supplanted by the Italians, although some beekequers still complain that their
Italians are constantly being crossed with blacks. (huns are constantly being crossed with blacks This race from Carniola. Austria, is not geninterested when it was first introduced into
America, vieal it, and since discarded it : but 34 199nci.

Ta. Inically every other race of bees known in She Ponic Caprian and Batrot heed caucasians. considnering the racus be localities in the ion than to another common to any one sec-


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## Ta


 the trade. The box, on the other hand, makes
for fine fruit, and it would be in the interest of fruit-shippers
of boxes, an
soon as possible.
He thinks that the mothods of sale and distribution might be improved upon. Prices at auc-
tion rooms vary so little that there is the suspicion that buyers agree beforehand on the prices
to be offered or ior imported fruit. $\begin{aligned} & \text { Very } \\ & \text { the } \\ & \text { the apples received in the large seaport towns ever }\end{aligned}$ the apples received in the large seaport to wns ever
reach consumers in the country, but aro consumed in the cities to

Shipping Strawberries to Winnipeg.

going to and from this stable alone. In the counCry there is so much walking that must be done, of conveniences in the country, coupled with the in hours of labor, is the reason why help, both difficult to procure. A young man I know was
working in town; ten hours was his dav's worklong enough, too-but when six o'clock came he knew he was through for that day. This was during the spring months. When June came he
went in the country. While there it was early went in the country. While there it was carly
and late, and what was the consequence ? lle returned, never to go back, and can you blame him? Too irequently on the farm the help are expected to do all the chores, milking included,
before 7 o'clock in the morning and after 6 in the evening, with a short noon hour. We know there is so much to do in the summer on the farm that one feels constrained to do more and expect
others to do more than they should. If we want others to do more than they should. If we want
to keep our hired help, both on the farm and in the home, the sooner we get down to the ten-hours-a-day system, and have less in the home the bet-
ter. Our sympathy gocs out more to the workrs in the home, as there is more monotony there
than for those outside very quaintly when he says : "Maist Fraser puts it though, it's the wumman o' "Maist o' the time,
under first, she havin' tae wark inside maes the time, and gettin' no change frae day to day but aye washin ${ }^{2}$ the same dishes in the same dish-
pan, and sweepin' the same for pan, and sweepin' the same floor wi' the same
broom, an' forty-seven hundred ither things till at last she can dae na more." I think some of us are apt to forget just this fact, and fail to help also when we might. May we all endeavor to have everything as convenient as possible, not
for ourselves only, but more particularly for those in the home. A. DEADMAN.

## Essex County Farm Notes

Harvest is under full headway in this part of
Ontario. Crops are apparently a little above the average. Hay was exceptionally good, both as great bulk of hay has been secured in excellent condition. Wheat is nearly all cut (July 26th). and the sound of threshing vibrates through the air. The yield, so far as can be ascertained, is dom-to-be-discovered optimistic husbandman. Ow ing to adverse conditions, caused by heavy rains
and subsequent dry weather, the soil required and subsequent dry weather, the soil required a
great amount of labor to produce a seed-bed suitgreat amount of labor to produce a seed-bed suit
able to germisating. The season was, therefore considerably advanced hefore farmers were able to finish wheat seeding. There being tittle or no
growth hefore the close of season, the wheat was apparently in no position to withstand the rigors of a Canadian winter. Early spring weather was not conducive to rapid growth, making the prospects for a good crop very meager. In many in-
stances farmers, as a supplement, sowed spring stances farmers, as a supplement, sowed spring
grains, but despite the unfavorable weather and discouraging appearances, wheat has yielded an abundant harvest
The sample is excellent, grain being plump, bright and clear. With prices ranging around the dollar mark for new grain, farmers are to be en-
vied. The straw, which has been well saved, ought to form a valuable acquisition to rough In almost every section spring grains give evihave of a fairly good vield, although some fields have a spotted appearance, owing to prevalent
and widespread wet weather during May and first damage wrought is the result of poor drainage. A splendid object lesson has been placed before our farmers, from which they may draw valuable
conclusions, as to the advisability of attempting conclusions, as to the advisability of attempting
some more economic system of draining. Fields properly underdrained, situated beside others equally as fertile, by the easily-to-be-recognized difference in growth, color and promise of larger
yield, ought to impress upon farmers the profitableness of ndopting, as speedily as possible, some systematic policy of freeing the soil from surplus water, and also securing a more equal distribugrowing grasses and cereals. The system of sowing mixed grains, as oats and barley, pursued by some farmers, has somewhat overcome the destruction wrought by over-abundant rain during
seeding or immediately following the sowing Peas are not sown extensively in Essex, and those sown are mainly for hog pasture. All and are much later this year than last, but none more so than field corn, which is the staple crop of our
county. While almost three weeks later in growth, comparing with same date last season, oyet there is an excellent showing. Should we be exempt from early frosts, there is abundant prom-
ise of a liberal harvest, both in grain and fodder of this very remunerative crop. But here, as else of this very remunerative crop. But here, as else-
where, the farmer has means at his disposal to
ascist in socurinct

THE FARMER'S ADVOCATE
uniform, profitable and perfect development ma gives more ample rewards, both for present and future, than the steady employment of the cul tivator.
Not only is it necessary to destroy pernicious weeds, which rob the corn of required nourishment, but also constant disturbing of the soil attracts a larger amount of moisture from the atmosphere, while it lessens the process of evap-
oration. This is especially true before the crop oration. This is especially true before the crop
has reached that stage where its wide spreading leaves afford protection from the penetrating rays of a July sun. Then by such a thorough process
of cultivation superior conditions are secured for of cultivation superior conditions are secured fo
the development of a crop. Large quantities of vegetables are being produced in Southern and South-western Essex this
year, mainly onions, cucumbers and tomatoes, for year, mainly onions, cucumbers and tomatoes, ior
which farmers and gardeners find a ready market, with ample returns, at the various canning and pickling establishments situated in the count sured against loss from over-production, while th surchasers are assured of receiving approximately the quantities required for carrying on a profitable
business. Owing to frequent showers during past business. Owing to frequent showers during past
few weeks in the section of country more largely devoted to this form of industry, possibility failure through drouth has been avoide
Root crops are not so flourishing. There an apparent failure on the part of many farmer
to recognize the value of mangels or turnips food for stock, and, therefore, a very small acre age has been sown
cood, while prices are extra. Supply up to pre ent has not equalled the demand. Retailers ar experiencing considerable difficulty in meeting th wants of their customers
most at a standstill. While prices are extrava gant, there are, at present, very few hogs suitable for market. Many fine herds are to be seen when driving through the country that are awaidem into equired condition
It is the consensus of opinion that this will be a record year, so far a
cerned, for our county

End of Foot-and-mouth Scare. from the Veterinary Director-Gentral at Ottawn which removes the last remaining restrictions int posed in connection with the outbreak of low and-mouth disease in the Tnited States ast The order made under "The Animal Contagious Diseases Act," on the third day of May, one thousand nine hundred and nine, in so far as the same fodder from the States of New York, Pennsylvania. ew Jersey hereby rescinded.
Dated at ottawa, this twenty-seventh day

Supplementary Ontario Fall Fair Dates.


Some 1909 Fair Dates

Death of Hon. John Dryden keaders of "The Farmer's Advocate " throughout the Dominion, and far beyond, will learn with regret of the death of Hon. John Drycen, which 29 th , at the age of 69 years. Mr. Dryden was born in 1840 , at Maple Shade Farm, Brooklin, in Whitby Township, Ontario, where his father. James Dryden, settled on emigrating from Sunder-
land, England. When twenty-three years old John England. When twenty-three yeleal elected to the municipal council of Whithy Township, where, as deputy-reeve and reeve, he served for seven years, retiring volun-
arily at the end of that period. He was elected to the Ontario Legishature in 18:9, and remained in the Legislature until the advent of the Whitney administration, in 1905 . In September, 1890 , Mr. Dryden was appointed Minister of Agriculture
for Ontario. His practical farming and stockbreeding experience kept him in close sympath: with the farming community, and enabled him to accomplish many things which were of great ad-
vantage to his follow agriculturists in the Irow antage to his fallow agriculturists in the an an importer and breeder of high-class Shorthorn cattle and Shropshire shcel, Mr. Dryden was well and widely known, and Maple

acreage sown than ever before. The fall wheat is Miling well. Spring wheat has a hery strong
blade, and looks promising for a havay crop; while oats and barley also look well. Potatops, in general, here, are an excellent crop. Each one
seems to have his own special way of planting. come prepare the land by marking the rows out with a marker, and plant the sets on the mark, nicely hilling them over. Potatoes so planted do not look well. Potato land should be plowed plow or disk over again, and work fine with th, harrow until planting-time. Some, havis large fields, adopt the method of planting with the plow, which, in my opinion, is just as good the the land, all hands even to the cook, with pails planting. A good plowman can open out the Arills about four inches deep, and, when planted, warer with the plow. Potatoes planted in this even harrowed every other day, until they are well above the ground, get the quickest and the hest cultivation, and the crop so treated is look-
ing the most luxuriant. Wherever planted about four inches deep with either phever planted about land left as level as possible, the plants can then Mre hest growth. Groh, of the Farmers' Institute and Miss Rife. of the Women's Institute, were sent up here hest way to till the soil, the best way to ferti-
lize, the best way to cultivate, etc. Miss Rife explained to the ladies the social properties Required, and. the best way to make the routine of
wormen's work more easy and profitable. The correspondents of both our local pape"s here the Ir. Groh great credit for the modern ideas he
alvanced, one of which was the forming of farmars clubs for the firther advancement of the
farmer. I am greatly in sympath with this, as
form farmer. I am greatly in sympath with this, as
one plan that the farmer can adopt to hold his
own in the battle of life. Own in the batt
Temiskaming.

The Highland Show. The annual show of the IIighland and Agricul-
cural Society, held at Stirling, July 2lth to
2fith tural society, held at stirling, July 21th to
26 was a
Cluductales vasy succesful event. The show of Clyotusdales was one of the lrest seen at the High-
landl. 1 ackness were much better than usual. land. Hackness were much better than usual.
(attle classes all filled well. Sheep were excep-
(ionally strong. In the CMrdesdale aged-stallion class, the
awards were 1, Montgomery's Gartley Pride,
hy laaron's Pride :2 Montgomery's Gartley
 Tions 1, Purdy Somerville's Scotland Yet, by
Royal Favorite; 2, Montgomery's British Time,
hy 'poto-Time: 3. Jas. Kilpatrick's Baron Bel mont Dy Haron o Juchly Kie. Two-sear-old stal-
lions in Momtgomery's Fyvie Baron, by Baron's

$\qquad$ quifec and kindly disposition, an unassuming man ner, possessed of a rare degree of patience an
tact, and, as a sipaker, was eatways athe to coo
mand the attention of his hearers on the plation or in the legistature. Throughout his life the practicing what he professed in this respect. It
 with McMaster Gmiersity. His demise was not the four-vearold I'che's Prite, full sester to

 "ill be long remombered and his momers and with Montrate Vanda, by Hiawathate and font of arriculture and the fimpor thment of lime

[^1] thampionst ford with Adeline, hy Altandale. The
 (1om) ower 1.5 hambe Roval ophelian. in the class
Count Victor: :3, Jampson's Kilpatrick's Silvertail, by
Toge Searlings : 1. Wm. Dunlog's Iunure Foot
 Wamu. The President's medal, for hest stallion any nge went to Montgomers's twoyear-old
Ifin Baron, and the reserve was inumpers yearCine Re hroopl mares were a supert) lot. First

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

## IHE FARMER'S ADVOCATE



THE FARMER'S ADVOCATE

| iank of Toronto |  |
| :---: | :---: |
| with over 50 years of successful banking experience behind it (chartered 1855), with ample resources and strong reserved funds, offer you in their | $\$ 190$; expressers, $\$ 140$ to $\$ 200$; drive $\$ 120$ to $\$ 180$. |
| SAVINGS DEPARTMEN | to $\$ 1.25$, outside. New to $\$ 1.10 . \quad$ Manitoba-No. 1 $26 ;$ No. 2 |
| convenient and safe place <br> the deposit of your spare be met at each treatment anches at all times. Interest dded half yearly. |  |
| nking Business Solicite | tents, 85.50 , in buyers ${ }^{\text {a }}$ sacks, Toronto. Manitoba, first patents, 86.20 to 86.40 , |
|  |  |
|  |  |
| ASSETS, - 41,000,0 | Per |
|  |  |
| MARKETS. | \$23 per ton. |
|  |  |
| review of last week's market. |  |
| The total receipts of live stock at the City and Union Stock-yards were as follows |  |
|  |  |
|  |  |
|  |  |
|  |  |
| ¢ Hogs |  |
|  |  |
|  | ts light |
| The quality of fat cattle was not quiteas good, not as many of the stall- andmeal-fed, while on grass, as has been meal-fed, while on grass, as has beencoming, but taken all together there was a fine lot, especially the export class. |  |
|  |  |
|  |  |
| Tuesday; in fact, it was the best market |  |
|  |  |
| yerr, orer 2,000 hed being boulght andweighed belore the noon hour. And, best |  |
|  | chickens alive, 18c. to 20 c . per lo.; old |
| of all, the drovers and fakmers seemed tobe well pleased and satisfied. Prices held about steady, at the previous week's quotations. | towl alive, 10c. to 12 c . per ib. Dressed |
|  | chickens. 18 c . |
| Exporters.-Steers sold at $\$ 5.65$ to$\$ 6.10 ;$ beifers, $\$ 5.50$ to $\$ 6$; bulls, $\$ 4.50$ $\$ 6.10$;to $\$ \mathrm{E}$. | TS |
|  | ts of Canadian frul |
|  |  |
| fed heifers and steers are scarce, and as dear ever, being worth from $\$ 5.50$ to $\$ 6$; londs of good, $\$ 5$ to $\$ 5.25$; modium, $\$ 4.75$ to $\$ 5$; common, $\$ 4$ to $\$ 4.60$; cows, $\$ 4.70$. |  |
|  |  |
|  |  |
|  |  |
| ${ }_{\text {\% }}^{\text {\% }}$ Feeders and Stockers, -Trade was light, | ${ }^{\text {Pr }}$ bla |
|  |  |
|  |  |
| to $\$ 3.50$, according to quality Milkers and Springers The quality of | Carter |
|  |  |
|  |  |
|  |  |
|  |  |
| Veal Calves.-Receipts large, with pricesthe lowest of the season, at $\$ 3$ to $\$ 5$ per |  |
|  |  |
| cwt., with a few of the best at $\$ 5.50$ sheep and Lambs-Receipts large. |  |
|  |  |
|  |  |
|  |  |
| Hogs.-Packers quoted 10 c . wer ewt lower, but found no takers. The farmers masters |  |
|  |  |
|  |  |
| certainly getting lack at the packer, and |  |
| ceipts weri light, with pricus strady, at $\$ 4.2 \%$ fed atul watered, and sk, f. 1. |  |
| cars at country woints with sy 5ul to $\$ 8.65$ off cary |  |
|  |  |
| reported on sale. Vrade was slow at |  |
|  |  |
|  |  |
| xas considered a sumbose considering that it is hariest lime. and mand farmor- |  |


|  | FOM M以下 1866 |
| :---: | :---: |
| Montreal. $\qquad$ provement, possibly showing a slight ward seems $\qquad$ is a somewhat better demand, particularly well to the previous high figures, Choice steers are selling at $6 c$. to $6 \frac{1}{4} c$. per lb ., fine at $5 \frac{3}{3} \mathrm{c}$ to 6 c .. good at 5 c . to $5 \frac{1}{3} \mathrm{c}$. medium at $4 \frac{1}{4} \mathrm{c}$. o . c . and common 3c. to 4 c ., with inforior as low as about $2 \frac{1}{2} c$. Recripts of sheep continue only rule steady, at 4 c . to $4 \frac{\mathrm{c}}{}$ c. per lb . There to prices being out of line. Lambs are in good demand, and prices are ranging sionally higher $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ as a week ago, as follows: Heavy $1,700 \mathrm{lbs} . . \$ 225$ to $\$ 300$ : light draft, weighing from 1,400 to 1,500 lbs., $\$ 180$ Cured meats are all stemily, the demand at this time of year. Fxtra-large hams are still selling at 14 c . per lb. large hams, welghing from 1 to 25 lbs., being 15 c. , and medium, 12 to 18 lt: being $15 \frac{1}{2}$ c. Large honeless hams sell at $\mathbf{1 6 c}$. and small at $16 \frac{1}{2} c$. Windsor backs art $\qquad$ $\qquad$ $\qquad$ $\qquad$ <br> nd $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ | IMPERIAL BANK OF CANADA <br> CHARTERED 1875. <br> Capital Authorized, <br> Capital Paid Up, <br> Reserve, <br> $\$ 10,000,000.00$ <br> $5,000,000.00$ $5,000,000.00$ <br> MENT. <br> 1.00 opens an account. Interest paid at highest current rate from date of deposit. <br> Farmers' sale notes discounted. <br> Branches throughout the Do- <br> minion of Canada.  <br> Cheese Markets. I istowel, Ont., bid on the board was street.,most the taries sold an the hemptville, Ont., cleared at 11 -16c. Huntingdon, 'que. white cheese sold at $115-16 \mathrm{c}$. colored, $115-16 \mathrm{c}$. Iroquois, Ont., none soid on board, but all sold on $11 \frac{1}{2} c$. and $11 \quad 7-16 \mathrm{c}$. एerth, Ont., $11 \frac{\mathrm{c}}{} \mathrm{c}$. for white and 113 c for colored. Napanee, ont., nhite sold for $11 \frac{1}{6} \mathrm{c}$., and col- ored for $117-16 \mathrm{c}$. london, Ont., bidding 11 - <br> Chicago. <br> Buffalo. $\qquad$ $\qquad$ $\qquad$ $\qquad$ $\qquad$ <br> British Cattle Markets. $\qquad$ |

The Canadian Churchman gives
voice to the following plea for great-
ver voice attention to the pronunciation of
ere growing generation. That such
the is much needed, no one will deny
who listens to the ordinary speech who chistren,
of chile
by slurring mination of consonants, and a generally untidy, stipshoith the English
"We sympathize with
lady in Alberta who bewailed the lady in Alberta who bewailed the
dreadiul pronunciation and slipshod
language that she heard round her language that she heard
and wondered whether, possibly in
the Southern . States, some place could not be found where her children
could grow up hearing English undefile not exist. Some parts of the
do nates West India Islands and British CoMumbia are better But, unfortunately,
in this respect.
where English is rooted as the mother tongue, there are provincialisms.
It is impossible to get away from them any more than in the City of
London, or any county district in the United Kingdom. At the same
time, we believe much more might be done than is accomplished, in
training teachers to speak at all traming the best English, with the best
timtomation, and when and where that intomation, and when and where that
is attended to, the scholars' voices are improved. Language, manners
and religion all need the attention
which seems to be thought to be which see
superfluou
 tween Canada and the United States the form the commemoratio as to take, but two of these are singled
out from the rest as most suit-
able. One is a pageant illustrating the events of the past century, the
other is the building of a bridge conmecting the parks at each side of
the Falls. The erection of a bridge conneocting The erection of a bridge countries, and
built with money supplied by both, would seem to be a peculiarly
propriate and happy memoriai

through reading the writings of such
men as Tennyson, Longfellow and Whittier, who present such ach high
ideals of character and conduct is really sad that so many young people find more pleasure in an ephem-
eral novel than in a great poem To ignore poetry is to shut oneself off from some of the most beautifu
thoughts that have ever found ex. pression in type. If a person has
no love for poetry, there is some no love for poetry, ${ }^{\text {t }}$
defect in his training.

People, Books and Doings.
The popularity of "David Harum "
continues. The Appletons, of New continues. The Appletons, of New
York, have just brought out a new
edition of the story, and state that since it first appeared, in 1898, more
than 1,100,000 copies have been sold. On June 22nd, Wells Cathedral Eng., celebrated its 1000th anniver
sary. Centennial celebrations ar not uncommon nowadays, but a millennial amniversary is something of
rarity.
One of the most picturesque cere-
monies which take place in London is the annual inspection of the King's Body Guard of the Yeomen of the
Guard, in the Garden oi St. James's Guard, in the Garden of St. James's
Palace. There are few links with the past that are as ancient as this
ceremony, for, the men parade on ex ceremony, for, the men parade on ex-
actly the same spot as the first troop of Yeomen of the Guard stood
424 years ago, and wear the same
pattern unifor,m as they did when pattern uniform as they did when
Henry VII. selected the 100 bravest
soldiers from his army to form soldiers from his army to form them
as his personal body guard. On as his personal body guard.
Fridey, July 19th, Sir John French,
Inspector-General of the Forces, held the amnual inspection, and over 8 membens of the company paraded
under the command of Sir Reginald Hennell. There was something ver moving in watching this parade of gray-bearded veterans, in thei-
quaint, old-world dress, saluting wit halberts. Each member of the corps had his breast covered with medals and the collective decorations in
cluded every action in which the Brit cluded every action in which the Brit
ish Army has taken part during the A translation of the New Testa-
ment into broad Scottish dialect is ment into broad scottish dialect is
said to have been completed by an
Ontario minister, whose chief reaso Ontario minister, whose chief reason
-among others-for the translation is, "Whiles thar has been a chance o' makin' the meanin' plainer; while wondrous pith could come in. And at a' times, ahint the pen that was
movin' was a puir but leal Scots heart, fu' o ' ${ }^{\prime}$ prayer that this sma
effort might be acceptit o' the dear effort might be acceptit o' the dea
Maister-and, survivin' a' the mis ca'on o' the pernickity and the fash ionable-might bring the memory o a worthy tongue, and the bette
knowledge o a Blessed Saviour, to this ane and that ane, as they mich chance to read it.
The first successful attempt to cross the channel by aerial naviga
tion, was made on July 25 th, when Mons. Bleriot, a French aviator, Yanded on English soil, having fow
over in a small aeroplane, at four o'clock in the morning. Two fellow
countrymen. who were on the watch
for him, with a few others who for him, with a few others who
chanced to he mear, were the only
witnesses of his arrival. The crossing was made in less than half a
hour-half the time of the fastes

This has been "Canadian year",
at Bisley, the Canadians having won fourteen prizes, among them being he Prince of Wales prize, one of the
most-coveted distinctions obtainable, the Jubilee and Kolapore Cups, and thers, besides coming third in the competition for the King's Prize.
Four more Dreadnoughts are to be added to the British Navy, to be Excavations conducted by the Archeological Department of the Indian Government, near Peshawur, have re-
sulted in the discovery of an ancient Buddhist stupa, or memorial mount, which are some ashes of Gautama Buddha, the founder of Buddhism. $\underset{\text { The ashes are enclosed in a }}{\text { a }}$ arought sealed with the royal seal of Emperor Kanishka, who was ruling in Peshawur at the opening of the
Christian era. "When Buddha died in 482 B . C., his body was cremated, and the ashes divided into 8 parts among his disciples," said Dr. L. D. the British Museum, to-day. One of the vases containing these, and known as the Piprahwa vase, was discovered
ten years ago by a Government sur-

The Running of an Empire.
must often have occurred many foreigners-and possibly a few is the secret of the success of the British Empire? How is it run? arious reasons could doubtless be pact that since the birth of Empire, in the reign of Elizabeth, it has oome quietly, but steadily, from strength to strength, never showing a sign of decadence, but ever gather-
ing fresh vigor, until it reached the unparalleled position which it holds to-day. But possibly the secret is a negative rather, than a positive
It is only during the last ten years or so that the man in the street in
his country has realized thoroughly that we are a part of a great and powerful empire. Before the South
African war he was conscious that we possessed certain colonies-some of them a long way off-marked red on the map, and that these col-
onies provided us with a reasonable onies provided us, with a reasonable
amount of corn and frozen mutton But the war changed all that. were hard hit, and fell upon grievlas times, while Furope rocked with
laughter at our discomfiture. Then from every quarter of the globe the whelps rushed to the assistance of the "old gray mother," and the the might of the British Empire was made manifest. It was no mere phantasy, this much-vaunted Empire; it had become a vast and solid
History has but repeated itself during the recent naval crisis. No soon er did it become evident that we were faced with a grave and immi-
nent danger, than the Colonies came forw danger, than the Colonies came
forward, one after the other, with magnificent offers of help. Some desired to alleviate the needs of the aid which should be more lasting in its effect, but all displayed alike the

Great Britain beyond prestige These are but two instances of the seas dominions, and the ganuine de sire to co-operate with the Mothe Country wherever possible, for the benefit of the Empire as a whole Can mere sense of kinsmanship alon Surely not, for the flesh of our fles have taken up the sword against us War only, did we attempt once, and. onc ony into submission to what it ne garded as oppression, with the result
that it changed its color map. But we learned our lesson and since that lamentable display of pigheadedness, it has been our ain self on its own lines, and accordin to its own notions of according quirements demand, with as little interference as possible from this doubt but this has been appreciate by our overseas dominions, and acted upon, with the happiest results. It is fully recognized that the Governor Crown, but this system represents the tation could never have been suc cessful had our Governors-General at
tempted to make their position in any sense despotic. Had there been frequent instances where a Governor General had allowed his individual judgment to run counter to the wish
ef the people, friction would in es of the people, friction would in
evitably have arisen, with disastrous consequences. 1sut the men sent out from this country, as represen
tatives of the Sovereign, have, tatives of the Sovereign, have, gen-
erally speaking, been extraordinarily successful, because they have made it their object to discoyer and associate themselves heart and soul with
the aspirations, of the country whose care had been committed to whose
cheir charge. Indeed, it is sufe to say that, to-day, there is no Colony which regards its Governor-General
in any other light than that of a sympathetic adviser and a staunch friend. Thus, each dominion has developed its resources unhampered by
the restrictions which would have the restrictions which would have
been inevitable under any system o rule from headquarters, and therein lies the secret of the success of the that we don't run our Empire-we let it run itself. Give this answer to the inquiring foreigner, and he will be more mystified than he was
before; and it is well that he should be, for nobody can say quite how something mystical is run. There is rises above metical, something whic about the British Empire. There are no obvious bonds which hold it can point to as an thing that one centive to unity of purpose. It em braces many different races, many ods of many widely-varying methflourishes as an harmonious but it because the keynote of its existence type of humanity to work out his destiny as he wily
But now we are approaching a crisis in the history of our Empire. The far, the mother has watched her chil dren grow up, giving them the beme and has reaped the reward in he

THE FARMER'S ADVOCATE.
children are no longer children. They have attained to the strength and to take their place at the 'mother's side. Let us make no mistake about that. Just now there is much talk
of cementing the defence of the Emof cementing the defence of the Em-
pire, and the conference in London om questions of defence is a big step in the right direction. There is a great chance here for making the change, which must come sooner or later, if
the solidification of the Empire is to become an actual fact. It is sin-
cerely to be hoped that the question cerely to be hoped that the question of defence will be discussed on a
wider basis than mere assimilation of methods, and a more proportionate distribution of the border. Let as have some scheme by which the
Empire will really co-operate for purEmpire will really co-operate for pur-
poses of defence-some scheme by which every part of it will be repre sented, and able to have a voice in
the management of the ships and the management of the ships and vide. Thus we shall acknowledge the right of the offspring to take their is no place in the household. Ther
no reas to believe that, when the time comes, this country will be ound wanting in common sense pire move slowly, and this change
will probably occur just as others ave, in the quiet, unobtrusive way which gives the impression that the trace of force or opposition from ny quarter. In the meanwhile, here cam be no harm in preparing urselves for a new era-an era from
which the British Empire will emerge mightier than ever, and a standing example to the world of the real

A Trip to New Ontario canoe, at least for a long trip Three days to camp," said C., and as we sat down in the little gray
shell that morning, and saw box shell that morning, and saw box
after box, bundle after
bundle stowed away about us, until the rim of the canoe almost seemed to touc
the water, it was with mingled emo tions, to say the least. The sk was gray and lowering; a stind
breeze was blowing i/ in our tect breeze was blowing "in our tet th." and we looked back at ugly little
EIk Lake City as one might who was loath to leave. But there was noth ing else for it but to go on, so we
bravely assumed an air of unlimited bravely assumed an air of unlimited "onfidence, considering C.'s canoeman
ship, and resolved to die at leas ship,
It is peculiar, though, how soon
fear of a canoe leaves vou in this
north country where her fear of a canoe leaves vou in this
north country. where there are so
many of them. At first you catch your hreath at every watble ; then by and hy, you begin to sit up and
take notice, You become interested
in the areen, woodes banks glidin! swiftly by : you hear in these silent wildernesses the songs of a myriad o
birds-the "teacher," wren, the veery, the wood-thrush and, above all. the white-throat call ing everywhere-and finally, the plas
of the paddle itself lulls you, fasci of the paddle itself lulls you, fasci-
nates you. and you are in love with
tha canow. You understand now the the canoe You nderstand now the
spirit in which Pauline Johnson Wrote "The kong My Paddle Sings.
You think of atl the delightful thing
Blise CIrman Bliss Carman and (al (i) 1) Robert: wrote atout "hirch and white ain
noee," and then suddemly you realize hat you. you. are here in the midst Water eddving be tahing intol youl - リンve
$2+2-2$
$-2=$

.

presents much the same characteratics as the same Chatceter- at which the Gowganda trail makes of river and lake, only that in places chain of rivers and lakes joining the the former narrows perceptibly, while Montreal higher up) at about night with banks become notably hiclder, fall. We were here to part company ing at frequt miles the way is still the Gowganda were the tents in place than a driztrail, and there is the same endless zling rain, which lasted until noon procession of canoes, ever canoes, for next day, began to fall. It was our
the river-steamers do not run above first night in New Ontario in the river-steamers do not run above first night in New Ontario in a tent
Elk Lake. Silently they come into but we slept comfortably betwee view, silently they pass. Perhaps the folds of an eiderdown sleeping there is a ". Good morning," but bag. and a ". rabbit-skin," - a sort of nothing more. Indeed, the extreme comforter lined with rabbit skins-
reticence of the people is one of the which is very popular in this coun characteristics of this great Northern try, and must be exeedingly so when land. You would think that the the thermometer reaches 20 degrees spirit of the solitudes had gotten below zero.
into them, or, that the cloak of the
The patter of rain on a tent into them, or, that the cloak of the The patter of rain on a tent is
Indian had for the time descended very pleasant for a time, but when upon the white man. We remarked the patter lasts for hours past the upon it more than once, "Tt is the time when you want to be on your
fashion of the country, said one to way the romance departs But once fashion of the country," said one to way, the romance departs. But once
whom we spoke. "People ane too during that drizzly forenoon did we busy," said another ; "every man venture out. An expanse of newlyhas, a definite point which ne means cut stumps-part of the Booth limit
to reach before night. There is no -lay behind our camp. We did not

flowers not common in sinuthern $0_{n}$.
tario, yellow clintonia, and tario, yellow clintonia, and a specion-
of liiy somewhat resembling a lily-ol of e-valley on a minute scale. Bunchberries were everywhere.
At noon the clouds liftel gladly we set oll. That day proved the most strenuous of the journey and the most solitary. For many pector's tent, met no no canoe on the river. Presently, the first of a six-
mile stretch of rapids was reacher and it was necessary to pole up, stream. Again came thrills as we Saw the curling ripples swirl by, and
felt the tugging of the canoe stroke. We never learned to really lroke. we never learned to really
like going up the rapids.
long, the sound of there long, the sound of their angry snarl, and a glimpse of the "white horses",
dashing up on the black water ahee brought a positive dread to us, There was always an element or us. certainty about them, and a tremen-
dous amount of hard work for the canoeman. Often it became nepes. sary for him to get out and full the canoe up exceptionally swift and shallow places, tugging along above
the knees in water, stumbling over the knees in water, stumbling over
folling stones, almost carried back sometimes by the combined force of the canoe's weight and the battling
of the swift current. At one point, C. Senior got out to walk, and struggled along,
dragging, the two of us, and all the "other" baggage in the canoe. It was a very hard spot, and my sym-
pathies were touched. I would walk through the woods for a piece. In deed, I preferred to walk. I was cramped from sitting in the boat.
There were a host of excuses. Well, I got my way, and walk burnt place, and the like of it I I d not wish to try agaim. Over fallen logs black with cinder; through
brush ; over rocks and boulders, and
finally finally intor deep red mud over my shoe-tops. To make mattens worse,
I had come upon a patch of things that looked like morellas, and had
filled the skirts of my long coat with filled the skirts of my long coat with
them. I believe yet that they were
morellas, but after carrying them morellas, but, after carrying them '
with infinite pains, there was no one with infinite pains, there was no one
able to positively identify them, and
they had they had to be thrown into the river. Cast of all, I came upon monse
tracks. That was the last straw, for, after that it was not onsty logaw, ior, aiter that it was not only logs,
hrush, rock, boulders and mud, but there was the added necessity of glowering about for a big bull moose.
No wonder I made a short-cut for Ane wonder made a short-cut for
the river. Isut I was " in ". first,
after all. and had to wait while C. toiled up the rest of the way, draggring his little wife behind him. At the rest of the rapids, where possible,
wee waked, hut we took good care to Inet off at the right side, where the Indian trail lay. and now I must tell you how we foll in with the next detachment of Our camp party-two of "the boys"
who had been sent on ahead with provisions. It was our first meeting with any of the party, and no toundingly fine detbut, especially his
wife of less than a year. To begin
wis with, it is than a yecessary to to begin had beeall wry cold all day, and was
crow ing steadily colder. Wraps wer. nit sumficient, so sole finally we
 with th. ". rablit skin.". Tiver. ".. came. sulden curse in the thandime besifle on them bank and the hoys." Th. look of blank astonishment on Their fares was more than amusing,
for tur them nothing but a canoe with
" mann at warh ond was visible. One Iof thont thit we aft wrowards that he anem


 (as much as three-quarters of a ton
(arried in a canoe), is sometimes carried be a
wading up the rapids behind.
That night we pitche our tents at a beatiful spot known as " The
Forks." because into the little lake Forks," because into the little lake
there formed flow the two tranches
bn the high bank, quite colvered with wild
rose bushes in full- -1omom, stood
In tront of it
 were sitting. It was the first sign to give it all for food and warmth, ye fel if human habitation that we had dying for want of the common necessaries ourselves to le ouly stewards in in God's
 neighbors than theirs to us,
for scarcely had we eaten sup-
for when over they came freshlymillionaire, able to eat off gold plates o make us a visit. They proved to because has digestion has been ruined by Montreal, and his friend, who were emporarily occupying the fine-rang they were, and we spent a most in-
eresting evening listening to stories
of camp woes and humors. Which of camp woes and humors. Which
here is more of woe or humor in he following, you may judge for
yourselves : When the black fies gre roublesome, one of the lads made
search for the inevitable fly-oil. "I ther. A bottle was found, and presently, the poor tenderfoot was
disoovered placidly covering his face with patent shoe-grease. Upon an
other occasion, the same youth es sayed to make yeast-bread. Ho care
illy followed directions, and starter is bread in a small pail. Presently wat nacessary to put some into an
wother vessel. But that bread wa like the widow's "ruse - it kept on
rising and rising, until every dish Chere were just twenty-four loaves
and only two youths to eat them. We shall not soon forget that nigh the still lake, the roses, the glorious
sunset, and the yet more beautiful fterglow. There were mosquitoe vere e to
amp.
and

Hope's Quiet Hour
Who Are the Rich


ID you EVER FIGURE THE COST of a single day's baking - the material, fuel, time and labor-and consider that it is all wasted if the baking is a failure?
Is it economy, then, to use a flour of uncertain quality when a few cents more will buy

## Royal Household Flour

-a flour that you can depend upon to produce light, crisp and wholesome bread or pastry?


It is made from selected hard wheat, milled by a most modern process which guarantees absolute purity.
Royal Household Flour does not vary in quality - does not disappoint

Ogilvie Flour Mills Co., Limited, Montreal.


## Cowan's coco

Let the ahildren drink all they want. Health ful, nutritious, delight ful.
Absolutely pure. That rich chocolate flavor Very economical
The Cowne Co. Limicod,


## Save Roof Money <br>      RUBEROID

  <br>Cet This Free Book 

ONTARIO And conare LADIES ${ }^{\text {end }}$ Whitby COLLEGE Ontario





of a little child who had to be sen jured herself by beating her head against the wall. "Work in a fac, tory all day, and
was the explanation
an echo from great britain In counting up our blessings, we
who live in Canada, where congester who live in and an overstocked mar-
conditions amen's work is the excep-
ket for women' ket for women's work is the excep-
tion, rather than the rule, should tion, rather than the rule, should
surely tet our hearts go out in symsureny to the three and a half mil
pathy
lo pathe of women wage earners in the
lions
Old Land, thousands of whom have to work for wages ranging from whi-
shillings and sixpence to four shil shillss one dollar) per week, the great majority not earning, on an average, more than eight shillings (two dol
lars) per week. No wonder there is lars
such a crying necessity for the regu-
alation of what is known as os the lation of what is
tenement evil," tenements being by no means a solution of the problem
how the poor are to be housed in how the por are
crowded areas of large cities. Municipalities are trying to obtain leases terms, but it is heart-breaking to ing slums from a center, wide belts of houses are espringing up on out-
skirts, so bo built and planned that skirts, so they must degenerate into slums, as much to be dreaded as
those of which a riddance is being
As a marked contrast to the above. comes the following breezy
ECHO FROM CALIFORNIA. On the subject of "The Soil and
Its
Products,"
some
interesting statements were made regarding the
work of women in the making and maintenance of homes upon the
land in California, a lady there, Mrs. Shafter-Howard, herself managIng and overseeing, a Calitornia ess
tate of 70 oon acres. 13,000 of which
is forest area anh whic she effective steps, to conserve according California
surprising success in agriculture
and horticulture. and horticulture, forestry, and the
management of estates. their serv ice to their country in this field
its general significance and ect
nomic
 keenly interested in comparing notes
with their sisters of other countries, like minded with themselves.
TT all of these had come with
specin int special interest the oppor (umelph-an
fordec by the visit to
epoch day in the epoch day in the eventulul weeks of
Congress, when the guests of Canada Were shown, by practical demonstral Government, aided by broad-minded,
philanthropical Canadians trining in agricultural and domestic of the land, hut, wherever possible,
ther sought to through every channel at for them,
mand, healthy
and mand, heal thy and useful careers for
which thrir college course had fitted
 when the rear-guard of the overseas
deleghae $\begin{aligned} & \text { finsedr through Toroto } \\ & \text { on their } \\ & \text { treturn from the Pacific }\end{aligned}$ welconed at ocery point at which
they had stoppect by the way, the all expressed themsemelves as delighted d at the maenitude of the land. To
reporter. Fraul Lirite areporter, Frau Stritt, one of the
most able and actomplished of our
guests from (iermans exclaimed Th, your great, beautififl country,
 ad no itea that rour canarmans was
weh a hie ,hace a conclusion to
hich all


The Ingle Nook


The "Schrem" is the next best thing to an imperishable fruit jar: ject ed when it comes to manufacturing Schram Automatic Fruit Jars. The Schram has a wide, smooth, polished mouth. It admits whole Wit easily You could not cut your hand on it if you tried.
The "Schirym. is easily sealed. Simply phace your jars on a level
urface press ithe automatic sealer gently down-thus forcing the air Surface press thie automatic sealer gently down - thus forcing the air
throuph por smal vent holes. When the cap is pressed home these
oles are aitomatically sealed-your fruit is hermetically sealed holes are attomatically sealed-your fruit is hermetically sealed. This
exclusive featire.prevents decomposition-your fruit or vegetables cannot
spoil Yout can put "Schram" jars away for mionths or. years, and be



PEASE EConomr



Suffered For Thity Years With Catarrh of The Stomach.

Mr. John Raitt, 71 Coursol St., Mont real, Que., has used Milburn's Laxa-Liver Pills and recommends them to all his riends. He writes:-"I take pleasure in writing you concerning the great value I have received in using Mins Laxawith which I have been a sufferer for hirty years. I used five bottles and they made me all right. I also had a very severe ated so quickly that it was unnecessary to call in a doctor to cure me. For the small sum of 25 cents we have
our own doctor wherr we have Milburn's Laxa-Liver Pills.
Price 25 cents per vial, or 5 for $\$ 1.00$, at all dealers, or mailed direct on re-
ceipt of price by The T. Milburn Co., What They Are Saying. The Clement Brown Trading Co., Toronto:
Dear Sirs. - The good invoced un fulv 6th artived
ine promptry, Were well pleased with every
ing foumd everythoy very fatisfact orv.
Shall be pleased to give further orders


 thing youlike.
The Clement Brown Trading Co.
Toronto, Ont.
bIG MILK CHECKS



DR. WILLIAMS'

## Fly and lnsect

DESTROYER
KILLS FLIES
Gives your catlle comfort while they
eat, gives them comfort while they eat, gives them comport while they
drink, kives hhem coomfort white they steep., kives you contor
mik.
Youre DOLLLARS

KILLS THE TEXAS FLY,
KILLS THE ANIMAL LICE, KILLS ALL THE BAD GERMS

Mr J. K. Moore, Smith Township,
Peterboro county, owner of of one of the





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| The More You Tamper With Superfluous Hair <br> The Worse Does It Become. <br> Our Home Treatment $\qquad$ $\qquad$ <br> Hiscott Dermatological Instltute, 61 College Street, Toronto |  |
| :---: | :---: |
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School of Music and Art.

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a Arviden,ial, school for girls, an
M
M,
Fallerm beg inS Seplember8,190
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59 Beech Ave., E. Toronto, Ont.

every ten-cent package of
Wilson's Fly Pads




For Lame Horses
 Trittes Miver



## WINDMILLS

THE H IYWARD WINDMLLL CO., LTD.,

## Less Friction Windmill



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THE FARMER'S ADVOCA'TE


## 1 There is hardly a farmer's daughter

in Canada who does not know Windsor Salt.
It has been the universal standby for years.
Practically all the prize winners at the fairs have used Windsor Saltlast year, $95 \%$ of those winning cash, medals and premiums, made their prize butter with Windsor Salt.

If you have not been using Windsor Salt for butter making, get a sack and try
it. You will then see why the prize butter makers use it.


McKinley \& Aitken's MANURE FILLER
The greatest labor-saver on the farm.
Guaranteed to load to to to 12 spreaders one hour, and turn as much For particulars apply to: McKinley \& Altken, Alliston, Ont.


A



2



## IMPORTED SHIRES (M, deat sume



Clydesdales and Hackneys way wimy imis


## IMPORTED CLYDESDALES






Clydesdales and Hackneys

NEW IMPORTATION OF CLYDESDALES,


## ness from the years full of troutle the thunder that pealed mommatarily

产品

| ture to Tilly with his sister, who had thus, apparently, more influence take him away from the city than | tomless pit of that deep cavern of the dark and bloody ground talked of by adventurous vovageurs from |
| :---: | :---: |
|  |  |
| to take him awa keep him there |  |
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|  |  |
|  |  |
|  | that kind which had driven so many |
|  |  |
| fation beyond even her wont, because | men mad for her sake mad for |
|  | much as he |
|  | Angelique, while listening to hishoneyed flatteries, as he led her gaily |
|  |  |
|  | again and again why did he careful- |
|  |  |
|  | thoughts or spoke of it only in his |
|  | to madness with doubt and per- |
|  |  |
|  | As she leaned on the arm of the courtly Intendant, laughing like one possessed with the very spirit |
|  |  |
|  |  |
|  | gaiety at his sallies and jests, her d. |
|  | parisons as she remembered Le Gar der his andsome face and his |
|  | deur, his handsome face andtransparent ndmiration, so foll oflove nad ready for any sacrifice for |
|  |  |
|  | love and ready fory any sacrivice for |
|  | away for his had no respect for wo- |
|  |  |
|  | men, but who admired her person, |
|  | and affected to be caught by the |
|  |  |
|  | hold him fast than the threads which |
|  | a spider throws from bush to bush |
|  |  |
|  | bird which files athwart themThe gayest of the gay to allcot- |
|  |  |
|  |  |
|  |  |
|  | ball as a slight and a wrong to her sovereignty, which never released a |
|  | lover from his allegiance. <br> The fair demoiselles at the báll. |
|  |  |
|  | less resolutely ambitious than Ange |
|  |  |
|  | pensation for only so much of the In |
|  |  |
|  |  |
|  | did not contentlooked with sharpest eves of inquisi-tion upon the bright glances which |
|  |  |
|  | now and then shot across the roomwhere she sat by the side of Bigot. |
|  |  |
|  | where she sat by the side of Bigot. |
|  | with a serpent biting at her heart for she felt that Rigot was really |
|  | unimpressible as a stone under her most subtle manipulation. |
|  |  |
| re. | Her thoughts ran in a round of ceaseless repetition of the question: |
|  | WWhy can I not subdue Francois |
|  |  |
|  | man who exposed Angelique pressed |
|  |  |
|  | her foot hard upon the fioor as the answer returned. ever the same "The heart of the Intendant is away |
|  | at Beaumanoir: That pale, pensivelady "(Anceliquuc used a more coarse |
|  |  |
|  | and emohatic word) " stands between him and me like a spectre as she is. |
|  | and obstructs to enter!' <br> .. I cannot endure the heat of the |
|  |  |
|  | hallroom, Bigot!'" said Angelique i" I will dance no more to-night ! I |
|  |  |
|  | would rather sit and catch fremies |
|  | Withe |
|  |  |
|  | The Intendant. ever aten ave and |
|  |  |
|  |  |
|  |  |
|  | an air of royal conuetry tok his |
|  | arm. and accompanied the grand alley |
|  | on a promenade down the gran of troses. |
|  |  |
|  |  |



Clydesdale Studbook of Canada.
copies each or volumes 1,8 and 12 , or will give in exchang
 Accountant, National Live-stock Records, Ottawa, Canada.

4I TAKE this opportunity to thank my many customers. In the past year I have zold



1Clydesdales ${ }^{4} \xi=5$ SMITH \& RICHARDSON \& SONS, COLUMBUS, ONTARIO
 Belmar Parc. cill to these bulls. An unsurpassed lot of yearling beifert. $\begin{aligned} & \text { John Doughan, Manager. } \\ & \text { PETER WHITE, Pembroke, Ont }\end{aligned}$


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 Pimples are invariably due to bad ot impoverished blood and are nevertheless peculiarly distressing to the average person.
Miss Miss E. L. Lang, Esterhazy, Sask.,
writes:-"My face and neck were covered with pimples. I tried all kinds of remedies, but they did me no good. I went to many doctors but they could not cure
me. I then tried Burdock Blood Bitters, med I must say it is a wonderful remedy
for the cure of pimples." tor the cure of pimples. Manfactured
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 and The Powder paint companr,
138 Balmoral Avenue, Toronto, can.

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A. M. RUSH PRESTON,

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Aberdeen-Angus Cattle For Sale: Cowns, Hetien, Bullh. For Sale: Cownh Hetern, Bullen
Good traina at reasonable pricen Apply to


THE FARMER'S ADVOCATE.


THE FARMER'S ADVOCATE


Shorthorns and Stropshirise SHORTHORN BULLS PRICED

 H. I STEAD Willo H. L. STEAD, Wilton Grove, Ont. Red and White, thirten months, out of Lady Madge,
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mile. Long-distance phone.
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Geo. Amos \& Son, SHORTHORNS MOFFAT, ONTARIO.
For sale: Several good young heifers, some of
them show heifers, and all of the verybest cooth
breeding. Correspondence solitited and inspection
Moffat Station. II Milles East of CIty Nine bulle from 8 to 20 months old, reds and ronas ;
to yearling heifers and and few cows. Will sell very CLYDESDALES
One pair of bay mares and one darla brown, henvy JAMES McARTHUR, Gobles, Ontarle

> The best bunch ever on the farm, All ages. Not exhibiting this year. H. Smith, Exeter, Ont.

## Show Cattle

FEW YOUNG BULLS and 20 YOUNG COWS and HEIFERS COMPOSE OUR LIST FOR PRIVATE SALE J. A. WATT, SALEM. ONTARIO. ELORA STAIION, G. T. R. AND C. P. R.

Shorthorn Cattle AND LINCOLN SHEEP.
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## A. Edward Meyer,

 P. O. Box 378, Guelph, Ontario sreeds scotch shorthorns Exelusively
 king $=6808=223004$ A. H. B. Yo


WHY NOT BUY A HIGH-CLASS SCOTCH SHORTHORN COW Or a Helfer, Or a Bull, or a Few Shropshire Ewes, or a Few Cotswold I can offer you something in any of them that will make a start second to none.
Write for what you want.


IMPORTED SCOTCH SHORTHORN BULLS

 fred. barnett, Manager.
J. F. MITCHELL, BURLINGTON, ONT.

WILLOWDALE SHORTHORNS
I have for sale some very fine young stock bulls and heifers ready to
oree. Descen noted sires. Also Chester white swine and
other noted sires. Also Chester white
J. H. M. PARKER,

LENNOXVILLE, QUE.
Scotch Shorthorns



## GLENGOW Shorthorns

Have two excellent bu'ls left vet, both about ten
months old, and gor derouth or ary herd faso a
Wm. Smith, Columbus, Ont.
GRAND SHORTHORN STOCK BULL for sale


SHORTHORNS
A few cows and heifers wing,
calves at foot by Good Morning, imp. No bull to offer of breeding imp. No bull toth ofret of bree
SCOTT BROS., HIGHGATE, ONT.

GOSSIP
Volume 6, of the South bevon sheep Flockbook, has been received at this
office. thanks to the courtesy of the Secretary and editor, W. W. Chapman, Mow- 1. What plan would you recommend in bray House, Norfolk street. Strand, Lon- to a well for drinking purposes?
ion, W. C. It is a well-printed volume
2. What would be the cost m r yard of 176 pages, containing records of 225 " ouestions and answers. clay. Ont. Half a dozen questions received in the Ans.-1 and 2. It would be well to col mails last week went into the waste-paper
basket owing to neglect of the writers to basket owing to neglect of the writrers
state their name and post-office address, or to the fact that they were not sub-
scribers to the paper. As has been reeatedly stated in these columns,
are the only terms on which questions a answered free of charge
Volume 6, of the American Leicester
(heep Record, recently issued, has been
eceived at this office. It is a beautifuleceived at this ofice.
y and substantially bound and clearly
yrinted volume of 195 pages, containing yedigree records of animals numbering
irom 9386 to 12400 , besides the constitu-
it tion and rules of the Association, a re-
port of the last annual meeting, a list of
transfers, and a very complete index., all
of which is very creditalale to the in-
dustrious and efficient Secretary, A. J. lustrious and etfic
Temple. Cameron,
Canadian National exhibition.
Canada's great annual Agricultural and Canada's great annual Agricunto opens
ndustrial Exposition at Toronto
his year August 28 th, and closes September 13th. All indications this year
point to a greater show than has been.
The oxhibition grounds have leen enlarged. The exhibition grounds have I een enlarged, the the top layer should be occasionally
new buildings erected, the prize list ex- The top tended and made more liberal, while the examined and renewed when required
arrangements for entertainment before the scraping on until clean sand is reached, grand-stand are said to be of a superion
c'ass. The usual reduced railway rates
$\qquad$
$\qquad$ ept. 3rd, and the beef breeds, horses.
heep and hogs, on Monday. Sept. 6 th .

OUESTIONS AND ANSWERS
Veterinary.
SURFEIT
$\qquad$
$\qquad$
$\qquad$
$\qquad$ with $1 \frac{1}{2}$ ozs. of Fowler's Solution of
Arsenic twice daily for a week. PARTIAL DISLOCATION OF THE
$\qquad$ What is the name of the enclosed plante
Whe Ans.- - One of the specimens sent was
plant of unual sour thistle, not a serious
weed. The other, not being in alt dition, The other, not heing havy no root goot atchenmay. be perennial sow thistle, a most there are creeping rootstocks, such as

ALFALFA AND OTHER SEEDS 1. I sowed alfalfa last spring with an

Holsteins


COWS AND HEIFERS



Farmers and Cattlemen, Read This !

 Limmandmand

$\left\lvert\, \begin{aligned} & \text { gintre and } \\ & \text { nulue } \\ & \text { Holsteins }\end{aligned}\right.$ For sale:


 Sunny Hill Farm $\begin{aligned} & \text { No more } \\ & \text { for sale } \\ & \text { sat }\end{aligned}$ Suminy Hill warm

＇HE FARMER＇S ADVOCATE
GOSSIP
sending a change of his advertisement of Trance，ior their Tall importation Shorthorns，writes：
bulls we have for sale were the youngest $\begin{aligned} & \text { gone about two months，and will bri } \\ & \text { about } 25 \text { horses and a few mares．}\end{aligned}$ we imported and are good colors，goond individuals，belong to popular families， of our herd bulls that we are offering i a red two－year－old，a very smooth，styl
ish i，ull，and we have a number of calve by him that are good enough to prove
him to the a valuable sire．We will give very close tigures on any of these bulls，
as we are fitting a young herd for Toronto

Robert Ness，Howick，Que．，shippe trom Glasgow．
Clydesdale stall
allions and tillies，name
and colts and two ver Clydesdale stallions and hilies，nam
Four two－yent－old colts and two ye
and year－old
One of
the ch the champion sire，Baron＇s Pride．
another was the third－prize two－year at the Royal，pot by the unleaten ch
pion horse，Everlasting．Mr．Ness
in this impurtation，stock by four H na this imp，rtation，stock by four H
land Society（hamp hion horses，namel
Baron＇s Pride and his three sons，Be dirt．Everlasting and Scottish Cr
while a fourth，Fride of Blacon，tho
never a champion，was twice first at
$\qquad$
$\qquad$
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$\qquad$
 AGAIN！E．\＆F．MALLORY，Frankford，Ont．



Stoneycroft Ayrshires Choice young bulls and heifers of the very beat breod－ ing，combining show and dairiry quality ing，combining show and dairy quality．
Larse Improved Yorkshlre PIIs fro and dams，now ready to ship．
Stoneycroft Stock Farm，Ste，Anae de Bellevwe，Quee
Just Landed with 50 Head CHOICE AYRSHIRES Including 12 buld fif for service，afew Ausust oalving ocows


R．R．NESS，HOWICK，QUE．
AYRSHIRES AND YORKSHIRES！
 ALEX．HUME \＆CO．，MENIE，ONTARIO． ＇Pbone in readence．＂TYMirmenii Ayrshires from an prizewinning herd


## Dr．Mclaughlin＇s Electic Bet Did It

 Mr．Anthony Stockley，Bethesda，Ont．This is His Experience


## PAY WHEN CURED

$$
\begin{aligned}
& \text { promise to make a Hercules of a man who was never intended } \\
& \text { pe stron and sturdy. } \\
& \text { Even that man I can make better }
\end{aligned}
$$

A man whe is nerveoser whase brain and lody are weak，who sleens badly awakes more tired than when he went to bed，who is easily discours ged，in－
clined to brood oler imaginary trouble，who has lost ambition and energy to to
 The whol force of vitality in your body is dependent upon your animal
Tricity．When you lose that in any manner，my Belt will replace it，and Business transacted by mail，or at ollices only．Yo aucents．

DR．M．S．Mclaughlin， 112 Yonge St．，Toronto，Can

## Brampton Jerseys <br> B. H. BULL \& SON

 BRAMPTON, ONTARE YOU IN WANT OF A


Tonto and Otawa. Also ofering some choice beifert
duncan station c.n.o.

##    Honials in one year. Sole propritern



 AND COLLIES.
 hardiness of constitution, adapted to MUTTON AND LARGE PROPORTION OF LEAN MEA

$$
\begin{aligned}
& \text { Champion against ALL breeds at the } \\
& \text { great Smithfield Show, London, } 1908 \text {. }
\end{aligned}
$$

Full information of

Secretary, Hampshire Down Sheep Breeders' Assoclation, SALISBURY england.
 LABELS

Oxford Down Sheep, shorthorn Get


OUESTIONS AND ANSWERS Miscellaneous


 A subscriber sent sample of weed, ask- byecked and rendered scarcely noticeable,
ing name, etc., which was sent for identi- first shaling all dry food with lime watert, from hay, waterfication to Prof. McCready, O.A. C.. $\begin{aligned} & \text { ing before feeding, allowing only an or- } \\ & \text { din iny pail full at a time. Avoid work- } \\ & \text { ing or driving hard immediately after a }\end{aligned}$
Ciuelph. Ans.-The weed enclosed in a letter by ing or driving hard immediately after a
a "Young Farmer of Manitoba," proves careful to not allow her to a
to be the Siler Weed, or Wild-goose
Tansy. This is a perennial weed, spread-
ing by slender runners. It is not often troublesome, but occasionally crowds out
the grass in dry, permanent pastures. As there is only a small patch of it in in The first of the two Lincoln ram sales,
the field mentioned, we should advise that I.incoln Long-wooled sheep
Ireeders' Association, took place on Fris it be thoroughly spaded over. and the dreeders Alssociation, took place on Fri-
plants and creeping roots raked up and day, July, latst, when it is satisfac
burned. We think this weed will pive no tory to observe that every ram offered
 SWEET CLOVER - WILD CHIC-
ORY. On examination or the weeds sent for sum of 200 guineas, Messrs. Wright being
identification by R. E. F.. we find that the purchasers. Mr. Casswell's average, the plant with the small white flowers
and the sweet scent is the White sweet (lover (Melilotus alba). It is a biennial on roadsides and in waste fieldse, exd perp-
manent pastures.
It is
not a dificull arent pastures. It is not a difficult woll and favorably known in all ovare to the
weed to eradicate. If it is kept and the United States among Monkland Yorkshires, we motat


| Willowdale Berkshires! |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |
| Everything guarantee as repre , will M. ${ }_{\text {a }}$ |  |
|  | AEDD STATION. C. P. R. AND G. T. R., P. O |
|  |  |
|  |  |
|  |  |
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|  |  |
|  |  |
|  |  |
| and 5 months old respectively and and bred again ${ }^{\text {a }}$, ${ }^{\text {a }}$ |  |
|  |  |
| to 5 months old, also a few really good sows bred |  |
| during April and May. A. A. COLWILL, NEW. CASTLE, ONT |  |


| Highest standard of type and qual Hy. For sale: Sows of all ages, good lot. Also younger ones. Pairs not alcim. JOHN McLEOD, <br> G.P.R. \&. G.T.R. Milton P.O., Ont. |
| :---: |
| Boars fit for service, and younger ones either sex Alon Embden geese. NMAC CAMPPBLL \& SONS. HARWICH. |
| Tamworths from Toronto winners Either sex. Any age. Sows bred and ready to breed. Pairs not alkin Chas. Currie, Morriston, ont. |


| Pine Grove Yorkshir sale. J. Featherstone \& | S Streetsville. Ont. |
| :---: | :---: |
|  | PINE GROVE BERKSHIRES Sows bred and ready to breed. Nice things, three and four months old. <br> Milton. W. BROWNRIDGE, <br> Miltun. C.P. R. Ashervere, Ont. Georgetown. G. T. R. Georgetown. G. T. R. |
|  | Ready for service, at $\$ 25$ apiece for yuick sale. <br> Rew pigs ready to wean. Several good Joung sow <br> A. C. Hallman. Breslau, Ont |

OGUST 5, 1909
THE SPICE OF LIFE
Sudge (sternly, to Pat and Mike, wh
ave been arrested for fighting)-Now ave been atrested for fighting)-No Prisoners (in unison)-Begorra, sir, not wis wan
"Yncle James," said a city young lady
who was spending a few days in the country, "is that chicken by the gate a Brahmin ?" "No," replied Uncle James,
"he's a
"eghorn." "Why, certainly, to "he's a reghorm, sail the young lady. "Ho stupid of in
his an $n$ "les."
w. S. (iilbert was lunching once at a country hotel, when he found himself company he was drawn into conversation
whom he When they discovered who he was, one
the party asked Mr. Gilbert how he fel the part a rave and reverend company."
"in such a grave."
"I feel," said Mr. Gilbert, "like a lion in "I such a
"I feel,", said Mr.
a den of Daniels."
appliopriatt
A clergyman went to have his teeth fixed by a dentist. When the work was
done, the dentist declined to accept more done, the dominal fee. The parson, in return for this favor, insisted later on the dentist accepting a volume of the rever ais-
gentleman's own writing. It was a gentleman's own writing. and on the fly-
quisition on the Psalms, leaf he had inscribed this appropriate inscription, "And my meouth shall show
(orth thy praise."

Darling Little Wife,-Little willie was missed by his mother one day for some
time, and when he reappeared she asked: "Where have you been, my pet?""
".Playing postman." renlied her ". pet," "Playing postman," replied her "pet."
"I gave a letter to all the houses in our rod. Real letters, too."
"Where on earth did you get them questioned his mother, in amusement.
wardrobe drawer, tiet up with ribbon,
was the innocent reply.
President Taft drove out one afternoon
to see a Georgia planter. The planter's
cook, a very old woman, takes no inter-
est in pubtic affairs, and she did not
recognize the portly guest. "What did
recognize the portly guest. "What did
you think of that gentleman, Martha ?"
the lanter asked, after Mr. Tait had
you think of that gentleman, Martha
the planter asked, atter Mr. Tatt had
driven oft. "Well, sir," old Martha re-
plied, "I can't say as I saw nothin' per-
tickler about him. He looked to me like
tickler about him. He looked to me like
the kind of man as would be pretty reg'-
lar to his meals."
THE: "LuCKY MAN."
"We get some sad cases," said the at-
tendant at the lunatic asylum to the
visitor, and wivened the door to the first
cell.
Inside wus a man sitting on a stool
and gazing vacantly at the wall.
"sad story." caid the attendant; "he
Was in tove with a girl, but she married
whother man., and he lost his reason from
another
grief.
They stole out softly, closing the door
behind them, and proceeded to the next
inmate. This cell was thickly padded
amate. This cell was thickly padded,
"Who is this?" inquired the visitor.
One of the speakers at the dinner given
in Cleveland by the National Educational
Association was Booker T. Washington,
the distinumished negro leader of the
South
South. In the course of his remarks he
told the iollowing story about a South-
orn binisulor, who was evidently rather
lone
"One sunday morning, while the min-
ister wion the midst of his sermon and
had rear huid the point where he was
shoutinc.
shoutin. "And fourthly, dear brethren,
" man.
a mall his head throuth the door.
and
low yow


EERY Chatham Pitless Scale is sold with a Government Inspection Certificate that warrants its accuracy. There is no extra charge for this warranty, signed by a resident Government Inspector, who tests every scale we make before it leaves the factory.

This Scale is COMPLETE. Can't Get Out of Order. Any other scale comes to you as a few parts No check rods, no frail parts to get out of with a huge blue print, showing how you can order. Compound beam, finely finished, build the rest of it; and you have to build it, fully tested, shows full tare on lower section, too, before youdoany weighing. This Chatham -easily read, no chance of error. Poise on Pitless Scale is absolutely complete, built of heavy steel, staunchly bolted together, easily erected ready for use in a few hours. Read Mr. MacLean's letter below. It stands solidly on its broad steel feet, clear above ground, needing no fixed foundations. Move it readily
anywhere. You cannot do that, with a pitscale. ck the beam by a touch at each Odd weibean by a touch al each 200 tbs, beam. Weighown by small poise on tower curacy up FIVE FULI TONS thousand pound Nothing about it to 80 wrong-built so well, tested so carefully.


Mr. W. F. MacLean, M. P. for East York, Says This About the Scale: donlands Farm, Ont., July 2nd, 1908. farm Some days ago the Chatham 5 -Ton Pitless Scale ordered from you came to hand. The had it all set up and were weighing on it before supper. The directions were so explicit, and
the the parts so simple that they had no trouble in putting the scale together and verifying the
weighing capacity. As well as being useful for weighing hay and straw and things of that weighing capacity. As well as being useful for weighng hay anc straw and things of thal
kind, it is very useful for weighing catte and other live stock. One good way of selling horses is to be able to give their exact. weight; and the way to get most for cattle and hogs is to know their weight before leaving the farm. Your scales are admirably adapted for
every k.ind of work on the farm."

Big Enough for Any Scale Use. Your Farm Needs Such a Scale. The Chatham's Platform is $8 \times 14$ feet- You ought to weigh all you buy, all you sell ample room for big load of hay, six fat steers, ought to weigh your stock regularly; ough
twelve hogs (welve logs, erc. Platorm cant sag, wont to keep track of yourtarm s yield-be a BUSI
woble, won't get sprung. Whole outfit NESS farmer. This scale makes it easy to do built so it will last a lifetime and be good all this, and thus save its cost to you over and every minute. Sold for a fair price, on easy over-because you can't cheat yourself, nor terms, and fully warranted in every way. can you be cheated with this on your farm.

The Scale Every Farm Needs Weighs Up To 2,000 Lbs. Accurately.


Chatham Portable Barn Scale is the handiest truck scale built,-ciompact, easily moved, readily -turned short (rron wheels and pole
are swivelled)
Certififed by attached Government Inspection Certificate to be absolutely a accurate and
well made. Will weigh po to well made. Will weigh up to 2,000 lbs. with positive
certainty. Warranted in every way. Priced low enough to suit you. Terms to suit you, too, if you the safest scale to buy.


Lowest Priced $\mathbf{I}, 000-\mathrm{Ib}$. Scale in the World.


[^0]:    
    $\square$
    

[^1]:    Tidings from Temiskaming

