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No. 917

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Northerin Ontario






 the same latitude as the southern part
or Maintoma, and 800 milles nearer the
seaboar.
That the experimental stage is past is clearly

 D. SUTHERLAND, The Director or rllament Bulldings. TORONT
HON. J. S. DUFF,
Minnter of Agricultur


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## The Farmer's Mavocate <br> Persevere and

Succeed:

## and tome )ragazine

EDITORIAL.


Are Weeds Getting Worse it is deplorable, and suggestis the imperative need or more uncompromising warfare against thes Iust be waged: First, on the farm, weed destruc the prevention of weeds of rotation, tillage, and ond, the protection of those who buy weeds for we from having weed seeds imposed upon them
whell they are paying for something else. The ceed Branch of the forminion Department of Agr he work of their officers in the press, on the weapons of information to aid in the former cru weapons of information to aid in the former cru-
sade, and the Seed Control Act is to safeguard the seed supplies used in Canadian soil. Munic ipal councils ought to put more drastic vim into
$\qquad$
$\qquad$ value, by putting old and young upon their guard as to what are weeds and their habits. To the
same end, valuable service was rendered by sending out latelled cabinets of weed seeds. We are, and seed dealers are able now to recognize more reeds and distinguish more weed seeds than they really improving, as shown by the quality of the quiry, we find taking individual farmer's lots as a basis, the seed Branch records, showing that, of to 1905, when the Seed Control Act became age, including several districts where clover seeds are grown, could be graded No. 1. But last
vear the results show that 40 per cent. of the imdividual farmer's iots could easily be cleaned to grade 1. It is, of course, unfortunate that
the seed from clean farms, and farms that are pot, is frequently bulked together by local buser, and in that condition reaches the large
cleaning plants. Many farmers' lots this season would be prohibited for sale, except for the pur-

> Work of the Seed Branch
$\qquad$ sent in ty dealeme purd farmers, is increasing, is


or investigation purposes. From the middle of March to the first of May, a large proportion of the samples tested are from farmers. From SepNmber 1st, 1909, to March 31st, 1910, there were foth, and about 93 per cent. of thase came from fed merchants. During the same period of 190809, the number of samples tested was 3,410 . While large seed-houses have expert testing of their own, practically all the Canadian seed merchants "ho sell grass or clover seeds in quantity make anadian Building, at Ottawa. This year the Canadian Building, at Ottawa. This year the
geat rush of work was between March 15 th and Aril 15th, and the entire staff worked through be usual Faster-holiday period

The Demand for Clean Seed. As farmers, we can scarcely take this weed-seed ields, previously clean, bringing forth from one seeding a crop of ox-eye daisy, wild mustard and sow thistle, there ought to be something more than mere indignation for such an outrage. A restive
feeling on the part of seed-users, and a desire for trengthening the Seed Control Act and its adins with regard ne of the best signs of the times. With regara grass and clover seens, the Seed Braich oughe crop now produced in so far as weed seeds are oncerned, to define standards as No. 1, 2, 3, or come to them for test. The American market having been practically closed against any low-
grade ('anadian seeds, a more explicit grading system, satisfactory to the trade, might well be put in operation that would assure better prices being , pid to farmers in favor of seed grown on clean land. President Duke, of the Ontario Cornelief thut quality is a recommend and that the celief that quality is a recommend, and that the
anadian farmer is willing to pay for the best, if Canadian larmer is willing to pay for the best, if
satisfied that he receives what he is paying for yost men like to buy as cheaply as they can, but he discriminating farmer knows that a few cents' merence in the cost of pure and clean seed grain he resulting crop. Reputable seedsmen of long standing know that a satisfied and successful cuscomer is one of their best assets. They welcome the desire on the part of their patrons for high-
class seeds, because it augurs well for future busiclass secds, because it augurs well for future busifarms from which future supplies for the trade arms from which future supplies for ine the warfare against weeds, the most strenuous fight, after all, is upon the farms; and, while the Seed Controi Act is strengthened in relation to the purely commercial aspects of the business, the time is doubtless approaching when its provisions may require more rigid application in th
seeds, as well as in their purchase
seeds, as well as in their purchase. Alarmed at the removal of over ninety-five
thousand American settlers of the best type, carrythousand American settlers of the best typee, carry-
ing with them nearly a hundred million dollars of capital, to the C"anadian West last year (ending March 31 st), the United States authorities have contemplated efforts to check the emigration. The effort has been deferred too long. The tide can-
not now well be stemmed, and even if it were, the
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hay, besides. Usual result: A loss in quantity

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individual connected with the paper.
ddress-THE FARMER'S ADVOCATE,

## Chores" as Education

$\stackrel{11}{ } \stackrel{y}{\text { reading }}$
the real fads and frills of education-and that nature study, manual training, cooking and sewing
are, and always have been, the assentials, needs explanation, if not defence. Ar, writing and
book-study things of but a few hundred sears? Had not Imperial Rome its pedagogi and rhetors. and were its schooltooss not reguired to learn
the twelle tubles of the law? (Cato and (ficeron taught their children to read and write. Ancient
cigyptian youths may have learned their country's history from the papri, and (hina had its
 might ask, "Are you not confusing, school exercises with education? The hook-learning of the
Chinese was at the root of their national stayma-
tion. Their school studios wore mere rounituln tion-nothing but marking time, not a forward step. Book-studies have always been the frills:
the essentials hase been the experiences that trained the youth to do things, to react on en-
vironment, and to adopt means to accomplish desired ends. These activities dweloped the physical
and executive powers of the south, and made him strong, resourceiul and useiul. Which," he might and and read ahout shewp, about wool-combing, sheep, wathing the wool, shearing, carding, spinhing atd "raving it. and shaping the homespum

siderable part of the education is given through the industries and arts practiced or observed by

the children in the homes of the pioneers; card-

Government Ownersh
ing wool, ginning cotton, weaving upon simple hand-looms-in short, inventing, devising, adapt-
ing means to accomplish ends that the teachers adroitly lead the children to deem important. Ir. Balliet would seem to claim that these are the lines along which the race has journeyed to us of our inheritance from the ages; but there is iorce in the argument that, to enter rightly on its possession and enjoyment, we must have training
or education of like quality to that which has
$\qquad$
provided it.
The honor roll of all our legislative bodies contains a large proportion of names of men who discharging home duties. As farmers' boys, which many of them were, the daily "choring" developed their strongest qualities. It was not simply that these morning and evening duties accustomed the boy to work; they sharpened his intellect by supplying him with a variety of prace find a way or make solving of which he had to find a way or make one. These experiences en
dowed him with intellectual alertness, self-reliance physical power and endurance the very qualities needed for successful and useful citizenship ing back, he might well exclaim, "' Blessed be chores!" A boy who has not learned to work and bear reasonable responsibility before he is eighteen years of age, has an incomplete and lopsided education. His chance of making a sue cessful life is risked.
Books and book-learning are of incalculable Value to those who have learned how to make proper use of them. The tendency of the exclusiveshould we say, its victims? - to try to escape
work. The product of such an pducation is work. The product of such an education is the
Chinese mandarin, proud of his claw-like fingernails, which prove that he never does any work. An ideal education teaches work; it lifts work
ahove toil and drudgery: it invests work with anore
ambitions, and beautifies and idealizers it. one
wishec for the time to wishes for the time to come when he may not need
to work; another, that the time may never come

About the Only Man's Job Left.
best of the learned profecsions, and the only one in which a man of brains ams, and the only one clares Peter Mcarthur, in his weekly letter to haps, but "ith the inspiration of prophec, all
the same. Machiners und organi/aton have Organized graingrowers in the Canadian West fluence to bear not only on the Provincial (iovernments of the three rairie Provinces, but also in the Dominion House, Severat instances are ond remedial legislation. For several years, unsatisfactory conditions the marketing of the staple crops of the prairic led a certain element among the grain-growers t vators. For some time the agitation was not considered seriously in legislative halls. For four seasons past, however, the grain-growers' organi zations in each of the three Western I'rovinces on the part of those in power. In 1906, the Royal Girain Commission, at numerous sittings all parts of the prairies, in ariabl heard sucge tions to the effect that Government ownership evils that were so obnoxious in connection with marketing grain. The annual meetings Grain-growers' Associations each year have sulted in resolutions to that effect, amid thusiastic cheers. Deputations, also, have wait, upon the Government leaders.
streny 1908 in numbers ended. The associations had gain lourl that the Premiers of and the call was and Albeth fremies mantoba, saskatchewn that would mect the conter and discuss a pla Provinces. The outcome was an announcemen elevators was beyond Provincial powers, and thal appecial Dominion chartor would haw and granted before the Provinces could act.
 paign during the summer of 1909 that the Man toba and caskatchewan of 1909 that the Mand
decided to take action. At the Saskatchewal had learned that the Provinces could legislate i Within a week, and while the Manitoha Grair growers were holding their annual convention, a
Brandon, the Manitona Covernmant
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$\qquad$ work, and men and women got jolist that wait on
them. Human beings are mere automata in the
industrial organism. Fantors work is driven drudecty, and the man who thinks that
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$\qquad$ just returns srom thair lation: in all their work and beximes dealines, iuruers ane their onn
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Arill 21, 1910
could expropriate existing clevators, and another clause providing that a Government elevator wil not he for the same, signed by sixty per cent. of the grain-growers contributory to such point, is presented.

The Government bill was passed at the recent session of the Legislature. On the Government's request, the Grain-growers' committee submitted rour names of men that they would consider capadecided on a commission. It is hoped, however, have begins moving to market.

Results from Apple Orchards
Public skepticism of calculated results is wel founded. Are," is a saw with considerable significance. Not for inuch a man "stimates he can do, but how abilities he has to grapple with, is what people want to hnow. Hence the great value of figures irom actual demonstration work, such as carried is a prolific breeding-ground for big stories, indisputable facts being often construed to prove what they do not prove at all. 1), Johnson, of
Forest, who travelled through the West last year, illustrates the point this way. ." Three years rels of apples, which made us over $\$ 80$, prices Sritish Columbia, they would have figured out the returns from an acre of such trees, planted fifty rees to the acre as 84,000 , and published it as an example of what could be done in orcharding in their rrovince or district. (Ontario can furnish material for big stories of that kind, too." What is betumples of success in every-day commercial operathoms, and none, perhaps, more creditable than
that of Mr. Johnson himseli. Here is a brief acand his brother, J. A. Johnson. It is published ithout their consent, for they are nothing if not Johnson Bros have thirty-five acres of hearing ifteen acres of plum orchard, ten acres of which is planted as fillens in apple orchard; and twelve ron. returns from thise orchards last year were 5,900 . Dlums were a poor crop with them in
1909 , and prices bad. The peach orchard will are its first crop of importance this ywar. In en acress rented. Two evarlurattors yse sum bush-
 feir own burrels, and wese every thing in the apple Nrhard, they hand to to pands employed in ore hrards, mi.) phayine on the culce of our possibitities,
 Hisininss, and endeavor to extend mumph larger hes sstem of co-popration we atoptece ret.rers Mich has enatled us to realize better returns so Une other instance may, be here cited, app




 mint. said the land in nis distritrt, since peopl.


THE FARMER'S ADVOCATE

## Farming Outlook Best.

## tained reviews of the remarkable progress of agri-

 comm in New Brunswick and Nova Scotia, in That the basic industry of the country should thus advancing in peaceful prosperity is encouraging, and likewise significant, when we reflect that at the same time, labor and capital in the industrial centers, such as the coal-mining districts,were at each other's throats, like wolves. This were at each other's throats, like wolves. This
condition, coupled with the greatly-increased cost of living in towns, should give pause to young men who are tempted to leave the farm for other pursuits that, on the surface, seem more alluring The fear has been expressed that the naval pro gramme being inaugurated in Canada may proy disquieting to some young men on Maritime farms by turning their atcention to that sirtice or the industrialism of the dock-yards. But now that farming has fairly entered upon so auspicious an era, young men of sagacity will think twice before dropping that which is sure and peaceful with tendencies decidedly mischievous. Those who are disposed to sympathize with the naval propaganda may lend their aid through growing high priced products for the participants to use. In the meantime, young men of capacity are well
advised in sticking to the land. The 20 th cemtury is th

A New Era in American Politics A considerable body of intelligent United States citizens, notably among the Republican persuasion have been insurging with a grand surge. That petus, been dispose to its ranks many who had formerly ganization through thick and thin. The over this unshacklinenc was a nataral sequence ment is trpified, if not led, by Senator Albert I Reveridge, a moted journalist, of Indiana, who not only opposed the Payne-Aldrich tariff in debate as an evasion of Republican promises, but, Daniel of pamels, voted against it thereby violating the party organizer' a most sacred canon, namely, that vote, in harmony with their dictum. In a recent magazine article, Senator Beveridge lays down Che principle that, instead of the party being paramount to the citizen, and the organization merely scheming for power that they may fatten on public (and private) spoil-instead of all this, The growing body of independent party voters, and
the further considerable body of out-and-out inde vendent electors, will render it increasingly necessancent for political parties to succeed by serving

## HORSES.

## The Hunter Breed of Horses.

There is little need to search the history of
Hunters.
They are a class of horse, rather than Hunters. They are a class of horse, rather than a breed, and have been evolved from the best British history. The Danes may have added to the stock of small, strong horses, and possibly the Norfolk colss originated thus. It was not until aiter the Norman conquest that horses approach-
ing the Hunter type were brought to England, and crossed with the pony indigenous to Britain. Nor was it until after the Crusades that our an-
cestors learned to appreciate the quality of riding cestros. Having then seen the Eastern horses, which for centuries had been the glory of all the old dynasties of the then foremost nations of the
world and, profiting by this knowledge, they world, and, profiting by this knowledge, they
brought back with them the germs of Hunter blood. has been well said that the crossing of blod It has been well said that the crossing of blood is important in improving the race of animals. In
horses, in particular, the delineaments of parents for generations back are plainly apparent through a long line of descent to the practiced eye of a
close observer. Residents of Eastern Canada close observer. Residents of Eastern Canada
day, whose memory carries them back sixty seventy years, can recall the type and character istics of descendants of the grand old gray Thor oughbred stallion, Imported Messenger, in generataons living many decades arter that remarkably
prepotent sire had been buried, with suitable ob sequies and honors. And although in the breeding of Hunters at the present day it may not be deemed necessary to take the studbook as an en-
tire guide, yet one must look into the breeding, tire guide, yet one must look into the breeding,
attributes and points of both sire and dam in order to secure a true type of honse for hunting
purposes, if that type is designed to be of the purposes, if that type is
highest standard of Hunter
In 1885 , the Hunter's Improvement Society of Great Britain was formed, which has worked as
siduously ever since in the cause of Hunter breed ing. and now consists of nearly 2,000 members It holds an important show every spring in London, when it offers nearly $£ 1,200$ in prizes, and, besides, gives medals, both gold and
silver, at all leading shows in the country where IIunter prizes are offered. It has also established a Hunter Studbook, very carefully compiled, in which a large number of stallions and mares are ent.ered. Thoroughrech hires have been almost during the last half century in building up the breed. First-class jumping tho hut rather from those of medium size, thus a sound breed is more likely to be built up than from a larger type. The breeding of Hunters in Ireland is one of the most important industries of the country, and ticular interest, one of the rrincipal reasons for ings in the hands of tenant-farmers are small in si้e, and in the chief horse-breeding districts a great deal of the land is in grass, and compara where there is arable lamat, the soil is light and friable, casils. worked, and does not require heavy


horses for its working, the brood mares doing Distinctive Character of a Good most of the work
The conformation of the Irish Hunter, as it is known to-day, may be described as: Height, from
15.2 to 16.1 hands, with long, lean, well-shaped head ; good neck, the underneath formation of which in the best, type of Hunter is short from
the throat to the chest; long, sloping shoulders, the throat to the chest; long, sloping shoulders
with good withers running well into the back with good withers running well into the back,
long, slightly-drooping quarters; strong second thighs and hocks, with the hind legs slightly in-
clined under the body; good arms, and cannon clined under the body; good arms, and cannon
bone rather long. Irish Humters, as a rule, are bone rather long. Irish Humters, as a rule, are
noted for their evenness of temper. Much of noted for their evenness of temper. Much of is attributed to their being bred and raised o land on which, in the majority of cases, the fences become self-educated jumpers by negotiating

## Mare Losing Colt

Editor "The Farmer's Advocate":
From the experience of others much is to be learned, let it be good or bad, and I might say in the outset that I have received many material
benefits in this way through .. The Farmer's Adbenefits in this way through " The Farmer's Ad-
vocate." If I might remark, too, there does appear once in a while in its columns a question
which sounds somewhat silly, to my mind, and would never be printed, and much less answered if it were not for policy's sake; and should this item appeal to you, Mr. Fiditor, in such a light, just pass it over to the waste basket, and oblige. Under the heading of "Mares losing their milk
before foaling," and, "If there is any remedy for before foaling," and, "If there is any remedy for
or preventive," and, ". The results "" in cases of or preventive," and, ". The results " in cases of
this kind, I have noticed in "The Farmer's Advocate " quite a number of write-ups, and it mported years ago 1 bred my mare to a pure-bred careful, while she was carrying her foal, to sce
that she was properly handled in the way of exercise, feeding, etc. The mare worked every day up and was fed her allowance of grain regularly Come six or seven weeks previous to foaling wax
formed on her teats, followed in a day or two by formed on her teats, followed in a day or two by
a flow of milk every little while. This continued until foaling. The colt came along all right; was a little weak, but was soon able to help itself. Its
bowels and kidneys were acting all right till the
third third day, when it seemed to lose ambition, get
sick, and only lasted about 12 hours. The trouble, to my mind, seemed to center in the stomach and bowels.
As this was the first colt the mare had, I venturee another trial, breeding her to the same same, only that the colt this time lived a onger
ny opinion that there is no preventive in a case of this kind, and have come to the conclusion that
the cause of death in the above instances was due o the milk being too old, and things would have been different had the colt got the first milk, or

# Prayer of the Horse 

To Thee, my Master, I offer my prayer: Feed
me, and take care of me. He kind to me. Do not jer
Never strike, beat or kick the when I fail to anderstand what you want of me, but give me a
hance to understand you. Watch me, and if it chance to understand you. Watch me, and if 1
efuse to do vour bidding, see if there is not
something wrong with my harness. ne wher water will drip on me. Kecp me wot shod. Fxamine my treth when I fail to eat; I
may have an ulcerated tooth. That, you know, s iery painful. I am unable to tell sou in words
when I am sick: so watch me, and I will try to ell you by signs. pet me sometions I wion it and ! will !agnt Protect me in summer from the hot sum. Kied
blanket on me in winter weather a frost

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A Chester White Yearling Sow
pectations of the most sanguine horseman. Man drafters have been sold to go Wet. To price
good drafter was to make a sale. We rement though, that so many, sptendid fillies and young
mares have been tahen. To heecp these for breed ing purposes would have been a better asset to Huntingdon In selecting a hrood mare, the character
metry, style, constitution, soundess and ty pessibly of greater importance than pedigree. But Can be learned of her ancestors. Kinowing th
Rind of stock she has sprung from, one may fort stock she will produce. Pedigree stands for mal's line of ancestry, the better, but stech ani



$\qquad$
 dinav take the work out of themt

LIVE STOCK.
Chester White Swine.
ing of an editorial in the Horse World, commenting on what it construes as a remarkable trend towards the horse as a source of recreation and Masure, noticeable in New York, Chicago, and Kansas City. In explanation or the greartaclass orse outfit in comparison with the most elegant automotiles, the editor quotes the opinion of a fun who owns both motor-cars and horses:can buy an automobile almost anywhere you wish, uu choose ducate the purchase most any time if horse. He is like man himself. A high-class, good horse is hard to find, and always attracts
the attention of the people and buyers. A goord the attention of the people and buyers. A good
man and horse are alike, as one commands a good man and horse are alike, as one commands a good
salary, and the other always commands a good price when sold. They are both always scarce, This is very true. The horse is an individual with a character of his own. No two are exactly
alike. Individuality contributes a large part of the fascinating interest in human nature : so, a so, in equine mature, the infinite variaulity
form, temperament, in short, the individuality the horse, renders him an object of study, in est and affection, such as no machine can eve
The difference bet ween the music produced The difference between the music produced by
skillfully-played piano and that of a pianola, a slight suggestion of the difference between horse and a machine Besides individuality, th responds. is an object of affectionate regard. car is an automaton, umresponsive, unfeeling aluable chiefly for the service it renders. Th horse is a creature, one of the miracles of creat
tion, endowed with impulse, character, life. Wh made so loudly and persistently that several Fair
borads w.re intlun moel to strike, them off the pria-
licte the them (generally), which that farmers discarded Somily to date for the famine prices that are beine

pigs very suitable for grazing (a system of feed-
ins which must lof more generally adopted, if the
best returns in hog feeding are to be attained) best returns in hog feeding are to be attained).
The reasons why 1 consider (hesters second to quiet, not given to roaming: second,, the sows are xcentent mothers and good milkers, and almost always produce large litters that can be finished
carly if desired. If 1 wre asked to advise any-
one fursue in breeding fiys. for the ordimary market, ter sow, with not luss than twelve teats, and hoar, and he will, or should, get a type of pigs and at the
the highest
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$\qquad$ Canadians as an American breed, is, like most o the other breeds of swine, made up from crossing to determine. That their place of origin was Chester County, Pemnsylvania, no writer attempts to contradict. While all the Chester Whites are looked upon as one and the same breed in this country, the Chester Whites and the Ohio Im proved Chaster (known to us as the nitederred to as two distinct breeds in the
 according to the best authority obtainable. they both trace to the Chester County Whites. About 820, Capt. Jane Jeffies imported into Pennsyl yania two pigs known as the Bedfords (large spotted hogs), which importation was followed
later by others, which were crossed upon the na dive sows of Chester County, and are, no doubt, theless, a Mr. Barnitz, writing in the America Farmer, in 18:33, says they are made up of cros. es of the Suffolk (a large white breed), the Eng ish White, and the cormons hog. The Cheste proved being much longer and leaner, and harder feeders, than the Chesters, growing until they wer three years old, the last have been considerabi, no now they rank medium as to size among

As the name indicates, they are white in col which are objectionable l, nut do not disquali which are objectionable, lat do not disqualis'y
lilack spots in the hair are disqualifications. The breed is noted for being hardy and vigorous. The
most modern sjecimen should be long and deep. straight, or a trifte arched on the back, with full
hams, well let down on the hocks. with shoulder and jowl as light as is consistent with a strong.
vigorous constitution, and standing up well on short, straight legs. Fiars fine, and drooping somewhat, but not lopping; face slimhtly dished bone preferred in the males than in the females. As a utility breed, 1 consider the best speci-
mens (and that is the only kind in any breed that hould be kept as breeders) compare most favor-
atily with any other breed, for both the feeder and the consumer. Their chicf claim to prefer-
ence is for crossing with the more discontented ence is for crossing with the more discontented
breeds. Being naturally wery quiet, they produce Thar, and he will, whould, a type of pigs Shecial to 120 pormends. dressod woricht, a top cross of the Berkshire, or with the same breed (Chester). "right. At the same time. I would say that pure

AR'IUL 21, 1910
THE FARMER'S ADVOCATE
Two Ways of Wintering Live Stock A corresponding bunch of nine Ayrshires gav
of over $\$ 700$, wages inctuded. Proi. Shutt'
camera again describes, hetter than any column Stockinen visiting the central loxperimental over 8,500 pounds of milk per year, that of the camera again describes, better than any column of be impressed with the healthful bloom of the the butter costing 49 cents per pound. per 100 pounds, and reading matter, the care and condition of the herds of cows and hogs, and more especially of over 7,000 pounds each from the typical bunch; the breeding sows. The Agriculturist, J. H. milh cost, per 100 pounds, 50 cents, and butter irisdale, and his men are to be congratulated upon the visible results of the methods of manage-
ment pursued. The first point that struck the editorial representative of ", The Farmer's Advo-
cate " was this, that apparently equally cate" was this, that apparently equally good re-
sults were obtained from two radically different sults were obtained from two radically different
systems of winter management, though in one
case it was with dairy cows, and in the with brood sows. It was a case of extremes
meeting. One might almosit imagine the herdsIneeting. One might almost imagine the her
men adapting the poet's couplet: For forms of management let fools contest
That which is best administered is best Within limits, that might be so, but the public and an average herd cost per 100 pounds of milk, cents, and $9+$ cents per pound of butter. For the benefit of "The F'armer's Advocate" reaaers, Prof. F.T. Shutt has photographed a few of
the inilking Shorthorns pose, just to show what they look like.
So far, about a dozen Shorthorn cows, sup. posedly of milking strain, have reached maturity here. Two of these proved failures from a dairy
standpoint, giving less than 3000 pounds of milk standpoint, giving less than 3,000 pounds of milk
in the year. Of the other ten, the lowest has a record of 4,016 pounds, the highest a record of 11,740 pounds milk in a single lactation period count what may result
in practice on the aver-
ake farme and hation in practice on the aver-
age farm, and base his
counsels accordingly. Were the conditions in
these stables duplicated.
then (111 might be duplicated. pectimg that? conceded that cattle sis onfined will show some
stifiness whem first turned stifness when first turned
out it spring. It re
mains to mains to the it re An y permanent preju-
licial efect. For young
ind breeding catule toch, daily outdoor opop promote grogranmilit and act in these experimental stables are herds
reprenenting four breeds snow deep as it is at the Canadian capital. The hencoop-like structures where they slept wer just rough pine boards, neither matched nor bat through, but they were generously bedded with dry straw. They were as ready for their outdoo lunch of boiled roots and shorts, with clover hay Tel out of racks, as the summer picnickers at
Hochlife Park are for icecream and ham sand wiches.

White Scours and Navel Ill. Questions continue to come to this office $r$ giarding the cause and cure of white scours in
voung calves, and navel-ill or joint-ill in foals. voung calves, and navel-ill or joint-ill in foals.
 satisfied themselves that both these diseases ar
infectious, and are caused by germs which gain enrance to the system
through the torn and string, and that pre vention is about the
only ground of hope The name white socur for the discharge from he bowels in not al ways white, or even dirty white, but the principal symptom is se
vere diarrhea, with a lightish-colored and foul discharge. White scour affects calves from a fee
hours to a few days old but some cases live for after, or even weoks, and eventually die o
pneumonia. The diseas
istics, wli thriving under
contmuous confinement er months. Thes were tied with swinging movement of allow a fair amount of liberts the flamks clean. "ith the Rut herford system of
 ut they are gencrously bedded with straw, so uarters or gargetted udders were not in eviuence. noul getting into the yards to) rut against ences, or under a scratching-pole, or indulge in hough the curry combl and lirush have been operatlig. Closely contined, watered with individual
metai basins, and fed from cement manger botmus, with no wooden fixtures, the cows are the or semi-yearly tuberculin tests can discover hictculous conditions; large framed, robust and f the fill-pail strain, and, generally, the \& wrli as their dams. There were a bunch of保 ounds of milk each an average of over s.non
is often coincident wit contagious abortion in a
Wintering Sows, Experimental Farm, Ottawa Stiation, Finglant (imp.) was bred by Richard sire, Lnion.Jack TjAO1, C. H. H.; dam, Jubilee, tell and collapsing in a day or two afte ten months. This cow has not lived up to her hope of recovery, though American experiment only -525 , pounds fat. This shows a total of 328.09 pounds cent fat. This record was made in 1909 . ${ }^{2}$ per Molly 111. was bred by the Fxperimental Farm,
She was loorn lebruary 16 th. 1907 sire Dinsdale 40392 dam. Molly 11. 55269 . Sord dropped her first cali February 15 th, 1909, at on day less than two years old. This happened inadvertently. She promises to make a fair-sized cow. in spite of having calved at such an early
age. Her record for the year was naturally not very high, vi, 3,051 pounds of milk testing 4.1
per cent. fat, showing 126.94 pounds per cent. fat. Showing 126.94 prounds butter-fat,
equal to 149.3 pounds butter. She was only 250 equal to 149.3 pounds butter She was only 250
dass in milk. She calved again a short time aro, and is doing much better. The Fxperimental Farm carrios a considerable
stoch of hogs, some 449 durine the past vear for stoch of hogs, some 449 during the past year, for
brewdine and feeding purposes, and experimental
methods of methods, of course involve more costly care and
onersight than ordinary commercial feeding, and

in treatment, though much in preventive measures. Which are not expensive, do not call for much
rouble, and are as follows: When the cow is due to calve, have her in a clean place, w plenty of fresh bedding. The calf should be ceived on clean bedding. Tie the navel cord $1 / 2$
to 2 inches below the navel with a disinfected cord, and disinfect the navel string immediately by holding under it a dish containing a 15 -percent. solution of formaldehyde, or a 5 -per-cent cord all shrivels up. This, or similar means of disinfection, is also the treatment recommended or prevention- of navel-ill or joint-ill in foals. In each case the necessary material should be pro-
vided beforehand, so that no time mav be lost in applying it. The sooner it is applicd, the better. as delay is dangerous

Soiling Crops in Massachusetts. crops up continually is that supplement to summer pasture. Almost eve onc realizes the advantage it would be to the
dairvman to have his cows well filled with green fodder every day. The fact that there is a period in most localities every summer when pasturage lacks succulence. and generally, is deficient, is also well known. but the labor connected with the bear which himders many from doing what they tacitly admit it would be wise to do. The whol question is one which seems settled every time learned lecturer discusses it in public, and becomes lows such agatn.
Some fresh light is thrown on the subject by
a bulletin recently issued br J B a bufletin recently issued by J. B. Lindses. Ph.
D. . of the Massachusetts Igricultural Experiment Station, Amherst. Mass entitled "Green Crops
for summer suiling " These, in the order in which they can be ferd. Wre: Rye. wheat and sand grass or barnsard millet. corn soy beans. Early grass or barnyard millet. Corn. Soy beans. Early wilin. alone. He beclienes that anmals should receive a protion of green iowd
during the growing season. liut if this portion can te secured from pasturase, he is inclined, from the standpont of comom, th mahe up the bal-
ance with hat luss, with clower and fodder corn. Mairy animals it fossible, so he thinhs. should the pastured dur ing five months of the year. The open air. sun
light, exercise., and the chanye from dry feet t.
succulent grasses, ate most desirable and thene surculent grasses. ate most desirable and bene
ficial but drouths wour, pasturage is himited
and and some extra fied is usuatly a treizoly in tine soiling with hisy and grain iteding. He does not consider it "ise to feed more than to or 5
prounds of coarse seren fients datly preferring to pounds of cos
make uq any
ment dition
He He
whenel
a hied.

## THE FARM.

Root Crops: Value and Cultivation Root the ing corn came into vogue, a few years ago, it was
hailed by many as furnishing a succulent food that would entirely take the place of roots as a winter food for stock. Many, for various reasons, had
never heartily engaged in the growing of roots and some of those who, had were ready to welcome a change, especiall, if it promised to involve less ianual labor. 13ut. as time has gone on. the roots has steadily weakened. It has been found that stock thrives better when both are fed in moderate quantities than when a larger amount oi lace is given alone.
There are many indications of this change There are many indications of this change of
sentiment regarding the value of roots. In the Giuelph, Prof of the Ontario Agricultural College Cuiplph, Prof Zavitz draws attention to the in
crased acreage of mangels in Ontario In 188. there were in the Province 15.791 acres oi mangels; in $1895,34,343$ acres, and in 19118 the area had increased to 65,937 acres. ". The Farm
er's Advocate" readers will have noticed that. it er s Advocate readers will have noticed that.
most of the best barn plans entered for competi
tion tion last winter, provision was made for the stor age of both roots and silage. John Campbell
Woodville. in an address before the Ontario Fair Woodville, in an address before the Ontario Fain
Association. at Toronto, on "Preparing Sheep fo Fxhibition. speating of the importance of differ -nt foods. gave emphatically the first place to ede turnips, second to clover or alfalfa and
$\because$ third to mixed grains. And not to multiauthorities. J. H. Crisdale. Ottawa. at th Dairymen's Convention, in Bellecille, speaking of
roushage for the dairy cow. Said .. There ought

f special form and color, and receive similar cul ation and treatment
Mangels grow very well on sod, but the plow ing should be done the previous year, and onl, surface cultivation given in the spring. Indeed
a mellow clover sod may, by proper autumn treal ment, be put into first-class condition for an: crop of roots, and this method in rotation is t.
be commended. But roots of most kinds com be commended. But roots of most kinds com
monly follow a crop of grain, and in that cast the ground is generally plowed in the fall, and again in the spring. However the work is done hand intended for roots should be brought to a thould be liberal if cood crops are to be secured The old style of applying manure in the fall, and plowing it under lightly, has gone out of fashion are still grown under this method. Manure may he applied in the fall. winter or spring; the main thimg is to get it there and well incorporated have 12 sols the attempt should be made From the first to the twenty-fourth of Mas an ideal time in which to sow mangels, sugar feets or carrots though they may safely be sown
earlier. After the land has heen thoroughly pre too high, may be made with a double or single hitould plow. It is well to sow seed the same da as drills are made. Mangels and sugar beets
quire 4 or 5 pounds of seed per acre and quire 4 or 5 pounds of seed per acre, and it
thould be sown at a depth of an inch to an inch and a half. Two pounds oi carrot seed per acre
 he drills with the notd rolier the day after teing earth about the seed and promotes good germination. Mangels may be sown on the level, and he crop be fust as good as if in drills, though the "orn of thinning is made more tedious.
It is well to have the land intended for tur
nips plowed, harrowed and rolled a few weeks benips plowed, harrowed and rolled a few weehs be
fore they are to be sonn. This gives weed seeds
a chance to germinate, and insures their destruc a chance to germinate, and insures their destruc-
ton hy the after-cultivation. The texture of the
soil is also improved lis lving aniet ior a time
 cutivated deeply, "orhed fine, and dritled as de
scribed for manges. One and a half pounds
tornip sed per acre is quite monough. if it were no

 Is soon as the line of plants in the root field
an be clearly dictinguishad. it is well to start hilled, and the growth of the crop is stimu-

Thinning or singling shoudd be hegun when
ass are an inch in width. With uractice may all be done with a With practice
 dwator and one or two hoeings-should be givand the werds thoroughly subdued. until the
con interferes with sum work. The
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Chapacter and Tpeatment of Swamp or Muck Soils.
In the Province of Ontario, as in most oth
provinces and countries, there are hundreds thousands of acres of swamp lands, and, while some of these have protuctive oi our soils, the atin disheartening failure. Siwamps there are that have been drained, arkd yet. though uppearing rich

irom their dark color, ssem to lack in some of the | issential |
| :---: |
| crops. | A bulletin (No. 178 ) dealing with the naturco of

thise soils and their treatiment, has recently been issued by the o, A. C. (Guelph, prepared D. D. In this bulletin the claim is made that, though
Ih. cultivation of urdinary farm crops has been ane ndoned as unsat isfactory on many drained
anump lands, yet there is not the slightest doubt
and that thesi soils, if properly understood and culti-
nated, would form a valualle asset of wralth to
 oi the more or less decayed residuess of vegetation,
as
nots rots, leaves and aquatic plants, but especially mosses, particularly partially-decayed sphagnum moss, Analssis o such solls shows, for the most part, a very high percentage of nitrogen, a
(air supply of phosphoric acid, and a deficiency of potash, Though the stores of total nitrogen are
 strong acidi
in Ontario. The productiveness of muck soils can be judged
airly well bv the naturn of tho subsoil.
Wher
 results. And, again, the deeper the black layer.

 sent in fromarit least sispern countes, work, at luaing an analysis, matul of his peaty soil. It houts and "getables oitton succeed well on such AUSES OF © SPROD CTIVENESS.
a summary of the causs of unproductiveness,




 4usety results from to rapid draining, and sub
eequently the complete drying out of deep arcais on



Sugar-beet Culture.
 grown in rotation with other crops: some farmers even go so far ats to claim that, in the yota-
tion there is no other crop that will take their place; that, ha a subsoiler, they are more valuable than alfalfa or clover. tip to the present
time farmers have paid no particular attention to the firtilizing of the beet crop, but just now there
is much talk as to the value of using a conumercial fertilizer, what brand to use. and how to
apply it A few farmers (ried it last year. Some apply it. A fee farmers tried it last year. Some
sowed it broadcast hefore working up the land, 500 to 600 , and even 809 , pounds to the acre,
but it did not much more than pay for the application. The Michigan farmers, who have been growing beets for fifteen years, have to a certain
extent solved the fertilizer problem. They started
out by sowing broadcast. out by sowing broadcast, but found that it did
not pay. They use now a fertilizer attachment
for their drills for their drills, sowing both beet seed and fertipounds to the acre. A balanced fertilizer
used, composed, in most cases, of phosphates, por ash, and nitrate of soda. The aim is to give the young beet a good start. The fertilizer being
close contact with the roots of the young plant they feed on it, until they get deep enough in the ground to take care of themsclves. After the
plant is a month old, it draws its substance from plant is a monds old, three months from one foot to eighteen inches, and at maturity as deep as three fect. The roottets,
unike corn, which cover the entire surface of the ground, extend out into the beet rows but very
little. so as the beets were concerned, would be more than prepare his land the year hefore accto clover sod may be turned down in August, three to four inches deep; fall-plowed to the depth of 10 to
inches, working the top up fine as soon as pos. sible in the spring, using some shallow cultivator,
plant about May 1 st. When the second leaves apppear, have them thinned to ten inches. This is an operation which must not be delayed. HunCreds of dollars are lost each year not having them thinned half, once a week have them hoed again in August. They should be fit to dig about Detober 1st. Plow them out before topping
have them toped with a knife: this is a little more expensive than topping with a beet-topper
or hoe and plowing out afterwards, but is the best, there leing a much smaller percentage of
beet wasted in the topping. If selling flat rate beit wasted the topping. weighed as soon as possible after digging, as they dry out very dast, hut. if sold hy sugar-test, this does not so much
matter, as you got paid for the sugar in the

## Seed Corn and Seed-corn Trade







and most favorable conditions, show a 50 -prer
comage oi sound seal ? hat the sweepstakes ear
I know for a fact that the sweepstakes ear of
the show cum irom a crop which, when put in an

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$\qquad$
$\qquad$lurned upsicte town-and niwe looked at by the
of meresits. have to pirck out whet

stances have been known where a field of nine
acres extra-well-prepared,
and well cultivated actes extra-well-prepared, and well cultivated, the field having been carefully measured, and the
grain weighed for market. It is unfortunate that, after al! that has been said and published in "The Farmer's Advocate," so many people are depending on shelled corn for seed purposes. Corn is an extremely sensitive grain to climatic condi-
tions. The year 1909 was one of the worst in my experience, the months of September and October being abnormally cold, and very unfavor-
able to the proper drying of the cob and grain able to the proper drying of the cob and grain.
People put off husking as long as they dared, and yet the crop went into the crib with the cob containing probably fifty per cent. more moisture than in 1908. And yet dealers have been shellmonths. With no drying weather from December 1 st to March, what can be expected from such seed but a miserable failure ? As a rule, farmers along and offers ten or fifteen cents over the price of feed, and the whole thing, nubbins and all, goes through the sheller, and is bagged up
and sent to the sced-houses, with failure the and sent to the seed-houses, with failure the re spoil very nuch more quickly in the bag than in
the bin.
The
is a great deal of fraud connected with the seed business, as well as with the nursery or A dishonest dealer will buy a job-lot of trees and label them anything the customer want seed dealcr may advertise corn or other seeds a
his own growth, with scores of varieties and year of experience, greater than the years of his life
and vet he mave never have grown on his own or and yet he may never have grown on his own of nyone else's land a bushel of any kind of seed
and our advice is get the advertiser's record be for you trust him, and never buy seed corn, except on the cob, and be equally particular never
to shell till ready to plant. L. C. PALMER.
sex Co., Ont.
Power to Run Grain Crusher

## I notice in your issue of April 7 th the question

 asked, "What horse-power gasoline engine to ge mi:leading, because I know, if a man bought 3 -horst-power engine, thinking he was going to grind, he would be very much disappointed. He could grind, but very slowly-too slow to bprofitable
In my opinion, he would want twic that power to do much of a business, or, if I wa buying a Canadian engine, I would not buy less than an 8-horse-power. But, for a farmer wh
intends to grind, to buy a 3 or 4 -horse-power en rine, ho is getting something he does not want as the larger engine will do the light jobs, a turning the cream separator, pumping water turning fanning mill or grindstone, as cheaply and
well as the small engine; and then, if you want to do heavy work, you have power to do it with although, with an 8 -inch-plate grinder, you can
give a 6 or 8 -horse-power engine a lot more than give a 6 or 8 -horse-power engine a lot more than
it car do. 1 write this from experience, end in
in in the interest of a brother farmer, and not to ROBERT ASSELSTINE. that ote- Reference four answer will sho an 8 -inch-plate grinder with a 3 h .-p. gasoline en gine, yet an overplus of power was desirable.

## Steel Silo and Frost.

lou wanted to know how the steel silo stood the test during the cold spell this winter. Well the silage froze badly enough, but 1 dont think it
froze any worse than in cement silos, judging from the uppearance of them. Naturally, you would think it would freeze a little further into the Thage, the steel being quite thin. We kept our
filage nearly level all winter from wall to wall. hile our neighbor, with a concrete silo, had a arcle all round, and about twenty feet high. One acrantage the steel has, it being thin, with the Perth Co., Ont. D. A. CAMPBELL
The Crop-reporting 13oard of the Bureau of
ctatistics of the Inited States Department lericulture estimates arm the Department of rawondents and agents of the Bureau, that the wewondents and agents of the Bureau, that the
 (hril 1st, 1909.91 .3 on April 1st, 1908 , and 87.0 he atwag. "Todition for the past ten years on
prit 1st. The decline in condition from Decem-
$\qquad$
$\qquad$

THE FARMER'S ADVOCATE

## THE DAIRY.

Creamery Experiments.
The Dominion Dairy Commissioner, J. A. A.
Ruddick, has completed arrangements for carry ing on an extensive series of experiments during the prent of the creamery industry in Canada. The werk will be in charge of Geo. H. Barra, Chief
the Dairy Division, who will be assisted by J. the Dairy Division, who will be assisted by J. J.
Bouchard, creamery expert, and other members
and the Dairy' Staff. There could be no better assur-
ance that the work will be carried out carefully and intelligently
Seeaking of the proposed experiments, $\mathrm{Mr}^{2}$
kuddick intimated at a creamery, and at the farms of some of its patrons, somewhat on the lines of the experiments
in the cooling and treatment of milk which were in the cooling and treatment of milk which were
conducted by Mr. Barr during the past two seaconducted by Mr. Barr during the past two sea-
sons, the results of which have already effected so marared a change and improvement in the methods
of handling milk for this purpose. of handling milk for this purpose.
Mr. Ruddick is a strong believer
of practical demonstration or illustration in matters of this kind, and he points to the success
which has followed the Department's demonstrawhich has followed the Department's demonstra-
tions in the col-curing of chesese. and to the work already refer
handling of mik.
handling of milk.
The creamery industry, in many parts of Canadre is now conducted on what is known as .The
Cream-gathering System." It is recognized that Cream-gathering System. followed in operating
the methods at present foret
creamerios on this system are defective ot certinin creameries on this system are defective at certain
points, and these defects make it difficult to seNoints, and these defects make it difficut to se
(ure the highest results in quality. Many leading dairymen have opposed the adoption of this
system on these grounds, but as farmers are desystem on these grounds, but as farmers are
$t=$ amined to stick to it, and it is their right to

every efort should be made to p.
the best possible working basis.
"We do not propose," said the Commissioner gathering system for the whole-mil shall endeavor to improve exitik system, but The exports of butter have fallem off $d$ ens. decrease in the curmy it cer was that the quality should be of the highest class, and that the creameries should to
conducted on economical lines, not only in regard highest possible return from the raw material sup

Dairy-herd Competition Continued The Dairy Herd Competition will be continued
mi the Western Ontario Dairymmen's Association. vear, lut a change in the way of swarding the irizes has ben adopted. Printed copies of the 1100 umung patrons will be sent out There will be two classes, and two sections in chese factories who furnish the first, seconil) irvin Na, ist to sectober 31st. 1910. The firs section is for herds of 8 to 14 cows, inclusive
Section 2 is for herds of 15 cows or over. Ther Hrizes will he: First, $\$ 10$; second, $\$ 7$; third
$\$ 5 ;$ fourth, $\$ 3$; prizes the same in each seection Corresponding prizes will be offered in both se tions of Class 11 ., for patrons of creameries who
furnish the first, second, third and fourth larges amounts of butter-fat per cow to a creamery in West ern ontario during the same time. Then, besides the
regular prizes, two sweepstakes medals, a
ailve one in Class 1 ,., and a bronze medal in Class if.
will be offered for the best showing in either sed tinn of each class. As last year, the average per
cow will be calculated upon a basis of the total cou will be calculated upon a basis of the total
number of cows from which milk is supplied by each patron during the season. Fint
test, and help the competition along
Koond think. and worth ancouraring

Montreal Milk Supply

- Ereasing Frow time to time, new shippersaro starting in, more especially from the Eestern
Townstins
Tith
Prices of milk und crram have tren arranced
kailon for milk, and :3 cents per cent. of tmetter-faents per gallon-all dallivered in the city, for fiveerr" is preparing for il large make this season.



## A Productive Dairy Herd. <br> GARDEN : ORCHARD.

 Breed, Fermer's Advocate ". Breed, feed, and weed," is the advice usually given to dairymen who wish to improve the milh good. Breeding up to a more productive type of dairy animal feeding judiciously and liberally and weeding out those that fail to reach the standard set, has wrought wonders in increasing the ave set, yield per cow in many herds. For the average man, it is the wisest course to take. But there are some people who have skill in judging dairy cows by their appearance, who do not reartheir own cows. To keep up their herds, they their own cows. To keep up their herds, they purchase as required. As an example of success ful work in this line, Donald Bain, of Oxford Co
Ont., makes a fine showing. He has heen , makes a fine showing. He has been a cat much better opportunities than the average, ha much better opportunities than the average farm-
er, both to see and judge stock. For the year ending December 31st, 1909, his herd of nineteen picked-up cows, mostly Shorthorn and Holstein
grades, produced 152,296 pounds of inilk. The grades, produced 152,296 pounds of inilk. The
figures are copied from the annual report Higures are copied from the annual report of the
Farmers' Union Cheese and Butter Factory, Ox-
ford Co ford Co., which makes cheese in summer and but-
ter in winter, and show an average yield of over ter in winter, and show an a verage yield of over
8.015 pounds of milk per cow. These cows were 8.015 pounds of milk per cow. These cows were
fed moderately (not heavily) in winter, and while on pasture received no supplemental, feed whatever. The large milk return was due, not to
heavy feeding. hut to heavy feeding. hut to the superior dairy quality
of the cows. It shows that there are good cows
in the country, and shows. also, what mav be


Annie Laurie 2nd - 15588 -

Western Ontario Daipy Instpuction Staff.
 new men having been taken on in place of Mo strongly that mow, having the short line from To-
McKay and Mr. Hart:
 stock-Ingersoll and Woodstock Group (imorge of it for several vears when the goods wet out
 beth-London Group.
 Robertson, St Mar's Xorthern and Mi.stoml Moft Mon \$1.65drate, with the increased traffic gloul, of creameries. Chief Instructor-Frank acen though they do have to haul the car them-
Herns, London, Ont.
 growing roots. The acreage may he reducel, but is i contende ofixet, or would be offset, by the


 Express-rates Argument. In regard to my evidence before the Railway Conmission, on the subject of express rates,
was given offhand, and, in brief, as follows. Speaking on behalr of the fruit-growers of on gest a scale based on mileage, taking as our base a rate of 40 cents per 100 pounds for a distance pounds for each additional 50 miles, pointing out that, at present, the rates are uneven to competitive points; thry are much lower than to
non-competitive points. We urge that this is wrong in principle; that the effect of charging high rates to exclusive points is to encourage the construction of competitive lines of road which fre
quently are absolutely unnecessary. quently are absolutely unnecessary; that, as a two lines of railroad where one would answer all urposes, and we believe that it would be more
in the interests of the people to have lower rete In the interests of the people to have lower rates course, this applies to freights, as well as express We point out that the traffic in fruit has what it was when the rates were set. We belinvo that the express companies are making excessive crofits. We do not ask that the company shall than a fair profit, but in the interest of the pro ducer, as well as the consumer, we do not want hich affords the express
companies a fair margin of Profit. Referring more par-
ticularly tor the North-
west tratfic, I pointed out that our strongest
competitor in that
market is the that Sarket is the C'alifornia
producer, who can lay
down bi, down his product, eve freight: "ondition
must
mhereas
abl.
or these peris ruits, which we grow
no profusion in Ontario
we think thing We think things should ontario ca n so thap Cabifornia. At pres nt, the carload pres-
or distribution-that
carlone carlood fron on on
fan, distributed fro Wints to various our
Manitoba--is Ner 100 pounds on the Mr 100 pounds on the
nide lines in in Manitoba, thereas, ten years ago, all of these points. $\$ 2.15$ to

of, evaporation bunges one thermers worst enemies. The sun, in April or May, will evapo-
rate from one-fifth to one-quarter inch of water per day. For thirty days this amounts to ove six inches. The average monthly rainfall Guelph for April is two and one-half inches, for
May and June, three inches each. Evaporation May and June, three inches each. Evaporation
will, then, exhaust in one month all the rain that will fall in two months.
In spring, the soil is naturally compacted on
tho surface, and this is an ideal condition for a the surface, and this is an ideal condition for
time. When the excess of moisture is got rid of evaporation should be checked at once. The bes wav to do this is to stir the surface and loosen
up the soil, breaking the particles into coarser up the soil, breaking the particles into coarser,
looser pieces, which, acting as a mulch, checks the looser pieces, which, acting as a mulch, checks the
upward movement of the water from the lower layers of earth. Soil is made up of very many particles of earth, with pore spaces between. An
ordinary loam soil is from one-third to one-half ordinary loam soil is from one-third to one-hal
of its bulk pore-space. This has been ascertained by actual measurement. Each pore-space serves as a storehouse for water. If the soil pores are
too coarse, as in a gravel or coarse sand soil, the too coarse, as in a gravel or coarse-sand soil, the
water is not held, but goes right down and out as drainage water. In clays, the pore space is too small, and there is not, sulticient room to
store enough water for plants. Underdrainage aids preatly in improving the
Uto and
capacity of a clay soil to hold water capacity of a clay soil to hold water. It is a
remarkable fact that a clay soil becomes more porous by the creation of little runlets through
the soil leading to the drains. Deep plowing also aids in making soils porous and increasing their water-holding capacity. When a soil in good tilth sull of water, but not water-logged, the finst That is, if all the water in a cubic foot of soil
Thate were extracted, it would fill a cubic-foot vessel
from four to five inches deep. This amount dereases as we go deeper into the soil, so that the
irst four feet of soil will hold about twel co hirteen inches of water. of grain, three feet high were all average crop surface of the soil at once, it would cover the ground to a depth of from eighteen to twenty-
our inches. To produce a crop of fruit requires much more water. The rainfall for the four
growing months amounts to about ten or twel inches. There is, then, from eight irches of water to then, secured by the plants from some other source. If evaporation has not been allowed to go on too long in the spring, this
extra water will be stored in the soil. Thus, here is always sufficient water to mature a crop each year, if properly conserved. Cultivation as: in summer, will conserve and insure a

## A Definite Size in Grading Apples

$\qquad$
incorporating in the Fruit Marks Act some defi
arples, as a key to and explamation of the pres-
ninimum size
Knowing well that one definite size would not
of the principal commercial variaties be printed
he Fruit Marks Act, giving the minimum size in
nches and fractions
The advantagess
would be obvious. First, the work of the in-
sulting from difference of opinion, or the eatrors
judgment resulting from changes to lots of apples
of different size
Even where tho
scarcely possible to get any number of men
agree to exactly what size of a certain varie
judging the same lot of apples, and at the same
time, especially if they have no chance of mensum
ing. The error increases if the apples of measur-
ferent places, and of a different average size in
cach place, and the difference of opinion probably
may be those of a friend. and in another those one





co-operative associations are being formed in it seems to me that mififormity would be but nuickection accomplished by the above means. The the quality of apple that must go into a No shape, bruises etc the directions or provisions laid down in the Act are sufficiently plain to give
arons. little excuse for want of uniformity in the above espects. The Act is plain in demanding clean, the indefinite terms used to designate size that preclude possible uniformity
Third -It would
Third.-It would be better for all classes o
buvers.; from the wholesaler buvers, from the wholesaler to the consumer is becoming yearly more reasonably sure of get ting clean, sound apples when he buys a barrel of apples, but, until we get the minimumn size stated
definitely in the Act, he cannot be sure what size ho is buying. One man's "" medium "apples may be half an inch larger in diameter than his neighbor's; and two barrels of apples may reach the
buyer, both put up in good faith, but differing in buyer, both put up in good faith, but differing in
size by this much. These surely must be discrininated against by the buyer. At the present time, the buyer does not know whether a No. 1 barrel of appless will contain
apples rumming down to 2 inches or 2 inches as a minimum. $\begin{gathered}\text { One objection made to a definite size being } \\ \text { Ond }\end{gathered}$ iiven is that in different seasons, owing to cli size, so that one season there would be a greate number of No. 2's than another season. In such Cases, for the sake of uniformity, it would be bet
ter to pack the greater number of smaller and put the loss down to the misfortune of hay Again, it is objected, here in Nova Scotia Ontario and British Columbia than in our in lrovince, and if we took as the minimum No. ${ }^{1}$
for the Dominion an apple which might be considered as medium in Ontario and British (o lumbia, it would be discriminating unfairly ugainst the Nova Scotia apple, compelling, again,
the packing of a large proportion of $\mathrm{N}_{0}$, This objection may be answered in two ways. Th ther Provinces may put us upon our mettle thes ead to the more improved methods of pruning rertilizing and thinning, and also the questionabl 1 's and 2's. It is well known proportion of No kets of the world that Nova Scotia apples, though
perhaps somewhat smaller than the same varietie in the other mentioned Provinces, are of such superior quality that, if the size were raised to a
good standard, they would casily luad the marEr, the size "medium " could be interpreted
for the whole Dominion to suit तova Scotia, and packers in the other Provinces coutd pack as much
larper and better aarger and better as their enterppise and circuin
stances would warrant. Other things boing equal.
where the duality not afraid to compete with any other country barrel. history much for advantages and onjections. The har as Nova scotia is comerorned, has boon that.
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$\qquad$ Fertilizing
clover, vetches, alfalfa, rye, oats, or almost ary kind of crop, to be plowed under the following spring. In northerly latitudes the cover cro
should be sown earlier, say, the latter part o Shoul, be sown earher, say, the latter part of
June, in order to check the growth of wood and hasten maturity of the wood, so that it may h aved from winter-killing
sod, generally pasture. This is bad orchard in sod, generally pasture. This is bad for the or
chara, as it is bad for a wood-lot. Grass and trees do not well agrees; the grass nearly alway enough to prevent the grass from growing enough to prevent the grass from growing. Al
falia is worse, even, than the grass, and should never be "orse, even in an orchard, except as a cove Op, unless it is desired to kill the trees
are three main objects: First, to conserve mois and, 'thirdly, as a result of these, to liberato plan food. We might say that a fourth object is $t_{\text {t }}$
kesp down weeds which rob the soil of moistur and plant food, but this should rather be garded as an incidental result. There are ways in which moisture is passed off from the the fround secondly, by transpiration frome th stomata or breathing pores of the leaves. Fivery
tree in the orchard, every plant in the field, is as pump, sucking up moisture during the growing having carried up plant food in the form lute solution. When moisture is lacking in th soil, the tree is, therefore, both starved and
parched. In order that we may prevent wast of moisture from the soil by evapmration , it wast pertant to have a loose mulch two or three inches deep spread over the surface of the ground to in tercept the upward capllary movement of soil fluences of sun and wind above. The second punpose that is served by moisture in the soil is the literation of plant food by conversion into solu portant chemical and hacteriul on These cannot proceed, however, in the ab
sence oi a reasonable supply oi moisture
W must conserve moisture, therefore, first, that
plant food may be liberated; secondly, that it may to carrie!! up in the form of sap to the leaves of
$\qquad$ (ributed through the soil as it is throgh the at
mosphere, only not so abundantly. and is sary for the chemical changes by, which plant soil is not likely to be well aerated, hard, dry
tion, bultiva not only conservens a losse mulch of surface soil,
moisture, but favons the freen
literation of part oi the season, when the tree requires both sluce growth of wood. pro
 lion has suggested seven different methods of han
diling orchards the seaton; second, tillage with cover crops iniru, tillage with intercropping: iourth, grass
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Ces close to the surface. Where they are the

fod mulch is described as the system where the orchard.

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[^1]mainterance was 27 cents per barrel on the sod
mulch, and 24 cents on the tilled-and-cover-croul area. The trend of the yields from. 1904 to 1908 the tilled areas. Sonewhat similar results were obtained from
the orchard-survey work in three counties in the orchard-survey work in three counties in
Western New York, where it was found that or charus tilled for ten years or more gave 45 per cent. larger yields than those in sod ten years or
moric. but otherwise well cared for while those mort, but otherwise well cared for, while those
tilled five years or more gave 15 per cent. larger tilled five years or more gave 15 per cent. larger
yields than those in sod five years or more. Of those orchards in sod and pasture, best results
were shown by those pastured with hogs, second puorer, even, than where the grass was removed by cutting. One reason the orchards where hogs
were kept made such good showing was that these were partly cust from codling moth by destroving
reduced the loss frome the worms in many fallen apples. From the re sults of the orchard-survey work, the authoritie
concluded that, while some few orchards, excep fionally situated, as, for instance, on hill-sides or rough ground, might give more, profit from pas
turing or mulching than from cultivation, still taking into consideration from cultivation, stil so extra cost of barrels, labor in handling, an in those countic
returns if tilled

## Our Spraying Operations.

$\qquad$ on Friday, April 8th. It should have been starter a little earlier, but the unwonted forwardness the seuson, owing to mild weather in March an early April, has rather upset calculations al round. The aim is to put on this frst spray
lime-sulphur just as the leaf buds are about to burst. On the Greenings and early apples we found the buds had opened and were showing some so instead of applying the lime sulphur spray at Mr. Caesar, we put it on about 1 to 11 for the first two barrels, and afterwards 1 to 15 . Little
injury was to be seen, on examination, at the end of last week. A slight scorching or browning was
observable on a few of the outer leaves. Fxperts
say the leaves are more hardy just after opening t would have been advisable to use the lime-
ulphur of a strength of 1 to 12 on the whole sulphur of a strength of 1 to 12 on the whote "ier, it was thought whell to phe on the safe side.
"he shall be pleascel to hoar from readers who
have "sed limesulphur in various digrees of The second spray recommended (1 to 30
ausar is limmolphur, summer strength
$r$ 3.5), ir 1 lordeanx mixture, either being applied with a poison. This is supposed to oren. We
"st as the thoscom buds are about to or
ropose to omit this second spray on part of the ne just as the blossoms fall, this being for the urdionu: or poisoned lime sulphur in rather wting some of the spray into the blossom-end of
Wery small apple. For this spray we prope to ise chiefly lime-sulphur, about 1 part
oolution to 35 parts water, adding to this arse-
nate of lead, two pounds to the barrel of mix-

POULTRY
Sulphup for Egg-eating Hens.


|  | Poultry |  |
| :---: | :---: | :---: |
| e Farmer's Advocate |  |  |
| anyone is gett |  |  |
|  |  |  |
| What are you |  |  |
| you keep?" Personally, I think feed and breed should take second place, and the question be |  |  |
|  |  |  |
|  |  |  |
| 1 think, myself, that the housing question is of |  |  |
|  |  |  |
| two miles from the city. There |  |  |
|  |  |  |
|  |  |  |
|  |  |  | to the south, a mest unsightly structure, and I Asked permission to pull it down and laild up a

henhouse of my own design. In reality, it was a design from one of the bulletins I got from the
(). A. C., Guelph. During the building of the O. A. C., Guelph. During the building of the
house, some of my neighbors asked, "How do
you propose to heat it?" and I said, I don't propose to heat it at all," And some of my wise or the greenhorn (me). Tlowever, 1 built my back; one window in front south side, and one
in: the south-west corner. Ily this arrangement, I get the sun from the first streak in the morning
to the last declining ray in the cvening. My front window had eight lights, but I knocked two of cloth in the openting, thus givingi good ventilation especially as, being a bad carpenter, I failed to bring the roof down tight to the back boards, and
in places there was a space of from 1 to $1 \frac{1}{2}$ inches; but, rather than being a fault, it was only im
proving the ventilation.
I rigged the perches proving the ventiation. A rigged the perches on neath them. I got my girls to carry garden
soil into the house, and all together, the floor was covered to a depth of about four inches, to which added another four inches of straw 1 mus
here state that the floor of the house is raised $2 \frac{1}{2}$ feet from the ground, open on the south side and boarded on the other three sides. I had a
trap let into the floor of the house so that on mild days my birds could get right down
Mother Earth and scratch to their hearts' co tent. Needless to say, hy this arrangement, have a fine scratching-shed, and shade during the hotest part of the day in summer house, without the aid of artificial heat, been a success?
must say, most decidedly so. 1 put 22 hirds in mis house last fall : 11 were hatched on the 17th
of April, 1909, and 11 on the 29th of May, and up to March 7th I had 715 eggs. I have not had have an incubator running at the time of writing,
with 124 of my own eggs, 168 of which are fertile be test. I invited one of my friends (who didn't
like to believe I was getting eggs from hens in a
cold house) to pay a visit to my henhouse, and cold house to pay a visit to my henhouse, and get a surprise. He came on one of the toldest
nights we have had this winter: it wasn't helow wind. As soon as I opened the henhouse done t. watch his face when I fold him it was not
heated artificially, but only from the animal heat heated the birds themselves, To say he was sur-
fromised is only a mild way of putting it, and ,
 warm houses? First, how are they warmed In
the majority of cases, the hen-roost is a part partitioned off from the cow-sha of the roost, and
a place at night, take a hen of
soll will find her damp with perspiration is that healthy? In a great number of cases the stable
is badly ventilated, and cows and hens lireathe the same air over and over again. Is that
healthful? In a great many cases the henhouse

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## APIARY

Elementary Instructions in Bee-keeping.-IV

Before purchasing any bees, it is bettor to read Before purchasing any bees, it is better to read
goord book on the subject. Don't choose one a hat is out-of-date; to make a success with bees, ho-to-date methods must be practiced. bom hers. There really are but few books written exressly for the incipient beekeeper. The "A B A 1 Z. of Bee Culture "' is one of the best books解 aso is good. The publishers of this paper will se pieased to send any bee-book at regular price, postage. After tudy it thoroughly. Non't read it inke a storythusiasm and interest in the subjec $\qquad$ and dealers of bee supplies for their catalogues. I did that and mot much valuable information from this source. Let me warn the beginner not to urchase a patented, newrangled inve or other de-

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\begin{aligned}
& \mathrm{t} \text { i } \text { i not approved of in a reliable text- } \\
& 1 \text { made some mistakes here, and to my }
\end{aligned}
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& \text { by the inventor in his advertising circulars). The } \\
& \text { by }
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& \text { advantages supposed, or at least, asserted, were } \\
& \text { made so convincing that } I \text { thought I would not }
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& \text { made so convincing that I thought I would not } \\
& \text { have much nurplus honey unless using this partic- }
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\begin{aligned}
& \text { have much surplus honey } \\
& \text { ular hive. The fact is, good orops of honey can } \\
& \text { be sectired with this kind of hive, but this is }
\end{aligned}
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\begin{aligned}
& \text { be selced with this kind of hive, } \\
& \text { equally true of any other good hive. Another }
\end{aligned}
$$ thing, if a patented hive is adopted, the user can generally at an advanced price. The hive most used, and as good as any under stroth dimensions. Use the eight-frame size; the

ten-frame hive is much used, too-in fact, I use it ten-frame hive is much used, too-in fact, myself-but, for morthern latitrades, hive is about rif $t$ I recommend it for beginners. For the supers, the top parts of hives, wherein he suctions are put, use the kind that take the
standard $4 \frac{1}{4} \times 4 \ddagger$ sections. You see, there is an advantage in using standard goods. They can be purchased of every dealer, and at a less price, Another implement that is absolutcly necessary the bellows bee-smoker. Don't think you can
without it. There is sometimes offered a Cold-hlast smoker ; it costs about 50 cents, hiy ad ice is not to use the former. Bees are not or easily subdued with cold smoke, and the be when the bees become roused. thing that anyone han course, a veil is something Again, I will caution beginners not to use cheap eoods simply
because they are cheap Buy a veil with a silk front: it offers the least obstruction to the vision. domspuito bat wear well, and has only cheapness to It is dificult, and hard on the
recommend it to see through it. Get a broad-brimmed summer hat, over which put the veil, and leave it
on This makes a handy " veil-hat." The beginner will need gloves, too. Gloves or felt, and not black. Never use new overalls
or smocks ; they have an odor very objectionable to the bees. Wash before using. Supply dealers sell through which the hees cannot sting. I used gloves only two or three times. Yousce, are rathe a hindrane
stings do not cause too much trouble.
Wisconsin.

## THE FARM BULLETIN.

A Graduate School of Agriculture. Igriculture, under the auspices of Association of American Agricultural Colleges and Experiment cations, will be held at the lowa State College,
dowa July 4 to 29, 1910. The new Hall of Igriculture, erected and equipped at a eost of 8:375, 600 , will be the seat of activity during the session, but the other bull ings and laboratories Agriculture is to give advanced instruction in (1) the methods of investigating agricultural probr tion will be given in eight main lines: Agronomy,
Plant Pathology and Physiology, Animal Hushandry, Toultry, Horticulture, Nairying, Rura
to per＇sons who have completed a college cours graduates who are recommended by the faculty of properly qualified to take advanced work in agri culture．All correspondence relating to member ship in this school should be addressed to Pro－
fessor IT．H．Pew，Registrar，Graduate School of
fessor II. H. Pew, Registrar, Graduate School of
Agriculture, Ames, Iowa.

1909 Crops Turned Out Well． A bulletin of the Census and Statistics Office，
issued April 13th，shows that at the ond of March the quantity of wheat in farmers＇hands in th
whole of Canada was about 18.28 per cent the crop of last year．This is $30,184,000$ ，out of
$166,744,000$ bushels，as compared with 20,233 per cent．，or $22,747,000$ bushels，out of the harvest of 40.03 per cent．，or $1111,199,000$ ，out of 353,166 ， $222,0 C 0$ ，out of $250,377,000$ bushls last year．
barley，there was 299.81 per cent．，or $16,517,0010$ cent．，or $15,692,000$ out of $16,762,000$ bushe
last Jear，of buckwheat there was $1,835,0001$ ，
of $7,806,000$ bushels，1，eing 23,50 per cent．， ngainst 29.03 per cent．，or $2,078,000$ bushels ou was nearly all produced in Ontario，there was
the farms at the end of March 3, ，iot 4.000 bushel out of a total crop of $19,25,7,000$ bushels．
potatoes there was $43,289,000$ out of $99,087,2$ ushels，or 43.68 per cent．，as against 4.10 pe
cent．，or $32,542,111$ bushels out of a crop of 73 ， 90,000 bushels last year．Of turnips and other
roots，there was 15.93 per cent．，being $17,1666,100$ out of
cent．，
bushels






Commerce shows that thepartment of Trade and
Winnipeg and points West, had been inspected at
ior the seven months
cnded March $31 \mathrm{st}, 69.514$ cars, or $74,032,110$
bushels of wheat, 12,154 cars, or $23,092,600$
bushels of barley, At the same date last year
wheat. were 61,092 cars or $64,152,900$ bushels
cor $16,473,600$ bushels of
oats, and 2,576 cars or $3,091,200$ bushels of bar-
est Provincas production of wheat in the North
merchantable; of oats, 95.13 per cent, and of war-
ley, 95.44 per cent., Manitola showing the high-
est percentage
1909
Che condition of lise stock in the Dominion al
for of farm animals, hewing 9398 for horses, 91.42
theep, and 92.77 for swine In 1909 the cond
tion of horses was 81.40 . of milch cows 78.70 .
attributed to corresprondents to the mildiness
other foodder, the excerllent quality of ha
ring im-a to
$\qquad$保 half of the

The Swine Commission＇s Report．
 Ireland，and in Denmark，has been laid before pigs，worth $\$ 11.80$ bach，in 1rom killing 1888 ，the trade 23,407 Minister of Agriculture．The Commission arrived 1908．Danish farmers have been paid more for in London on June 27th，1909，and their inquiry their hogs ell．，live weight，than Canadians was carried on in England．Scotland，Ireland，Ilen－for seven years past，according to one table in the
nark and Holland．Information was gathered re－report，the avernge for the latter in 1908 being
lating to mark and Holland．Information was gathered re－report，the average for the latter in 1908 being
lating to the marketing of bacon and pork，as well put at 85.90 ，while the Ihanish cuotation is $\$ 6.93$ ．
as to hog production and selling．The Commis－The last quotations piven are for July， 1909 ，bo－
 Wm．Jones，Zenda，Ont．；（iedeon（iarceau，Three sells for more in Iondon，1．ne．．．the range being land：and Joseph Rye．Calgary，Alherta－all mem Evencer，Assistant to the Livestock Commission

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## ल⿵冂卄 III



## 1HE HAKMER'S ADVOCATE

FOUNDED 1866
I know that there are exceptions innumerable -God pity country life if it were not so-men who
do know the use of tooth-brush and nail-file, and do know the use of tooth-brush and nail-file, and
who take a bath oftener than once in six months. who take a bath oftener than once
But I am not talking to the excetions; I am But $I$ am not talking to the exceptions,
talking to the generality, which is the rund talking to the gen by a lifetime's observation, can
that, I can vouch
stand for strong talk in that respect. stand for strong talk in that respect.
Carleton Co., Ont. MRS. W. E. Hopkins.

Mixed-farming Profits
H. J. Shultz, an Illinois farmer, who has been
keeping accounts, and a daily record of his farming operations for ten years, so that he knows just what he is doing, gives and results, financially, from his corn and other His only purchases were some corn and other grain leed for cows, milk and calves ..... $\$ 4,524.93$ Hogs Forty-five acres of wheat …............................208.85 sheep, woor, and lamts ..................... 574.98 ream of horses ... ...................... 350.00 Five cows and heifers
Chicken
$\underset{\text { Potato }}{\text { Fggs }}$
Hauling gravel .......
Various little things
Total sales $\quad \$ \overline{\boxed{617.20}}$

Total sales
-
$\$ 1,756.97$
171.20
For cow feed
200.00
627.55

For slop
For labor
$\$ \overline{2,755.72}$
This leaves a balance sold from farm of
\$5, 861.48. In the statement for labor, he did not include threshing, hire of engine, filling silo. ter work, or any improvements-simply money paid for farm work to run the farm. In 1908

Animals that Will be Missed.
At the conclusion of examinations at the AgriPremier G. H. Muray for the best judging of awarded to E. S. Leonard, of Paradise, Annapolis Co., who received 87 marks out of a possible 100 ,
for the judging of horses, beef and dairy cattle, tor the judging of horses, beef and dairy cattle,
sheep and swine. Hon. Mr. Murray has always endorsed the policy of improving the live stock of the Province, hence this judging-prize cup comes
fittingly from him. Forty-two students competed.

The Ontario (Government Immigration (Iflice is receiving many applications from farmers for help,
Married men are asked for by many, and yearly
engagements promised. (ywing to the carly spring, the demand has been hermer than usual.
Most of the requests are from Western (Intario
countios The mineral output of Canada last your was
$\$ 90,000,000$ an increase of fift., pere cent. over
that of five years ago, and five times that of

Mrs. Hopkins Comes Brek.
A few weeks ago I was guilty of an article in your paper, entitled, ". Why Boys and Girls Leave criticism to be directed at me, accusing me of be ing too severe in my statements. I declare that such is not the case, and that, on the contrary I deul with the subject very conservatively. The
trouble lies in that farmers have never been told any unpleasant truths about themselves, partly
because a wise policy of petting helps to keep them in their position, party because the papers wich will to run any risks, and partly because, outside of their immediate circle, few and far between are long es they the work that keens the world going. Naturally, under the conditions, if aught but what flatters comes their way, their sensa But whether or no, I maintain that to hear the plain truth occasionally does us good, and tenc that we are all that is desirable, what have we to strive for ?
1 might have been still more sweeping in that
reprehensible had added that still another factor in the deser tion of the farm by the boy was the fact tha
often he was forced out by the petty jealousy and often he was forcedent of his father. Show me ungenerrus trea, as long as he is able to walk will let his boy have any lead in the management of the farm. Show me the farmer who, having
graduated his son from the Agricultural College, graduated his son from the Agricultural College
will let him prove his knowledge in practical fash ion when he returns home.
who treats his boy as a man and a partner, by
turning over to his supervision turning over to his supervision and profit a sec
tion of the farm, or department of farm respons hility. All or any of these things would but be reasonable. Why, then, are they not generally done? Because the father, in his heart, fear
the new way of the boy would displace the old the new way of the boy would displace the
way, which is part of himself; because that, $t$ be monarch of all he surveys," as far as his
bine fence, is the great pride of his life. To diline fence, is the great pride of his life. To di-
vide authority with his son would be to impair his frerogative; and so he holds on tight-fisted to the rems of government till death comes to losen his for ${ }^{\text {a }}$ dead men's shoes,"" has wandered a way. Then, I might have said, also, that the girls are drawn to the city because their innate love of
daintiness and refinement makes them wish to ssociate with men who have, take, or make, time
to groom their persons a little more liberally than most farmers manage to do. I have put my hand. and am doing it still, to all the phases of farm
work, and I know exactly what the result of some of it can mean to the cleanliness of hody and Clothes. yet, it is really no excuse for the un-
tidy appearance that the farmer presents, at least
when away from his work. I have a foretaste of the anathemas that will thon market, have worried over this fact of makes their individuality so uninviting and un-
lovely, and tends to lower the nobility of their alling in the consideration of all those with


Men of To－day

ment in the hands of the favored the Cengress oi \ienna，the Treaty
few．Last week the
 to prevent the illegal operation of more questions which could many that chinais army may one duy num

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 A．J．Balfour

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IV in an article by Mr A．Cruss
Morrison in Popular Science Monti to doubt thems no reason whatever
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New Forces in Old China．

RIL 21, 1910
THE FARMER'S ADVOCATE

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and

| first national election, to be held | our (iod, faith in His eternal pur- pose, faith in His oternal |
| :---: | :---: |
| me years hence. Even that cher- | faith in His eternal love, faith druwn |
|  | from the indisputable fact that His |
| der of the | gospel is the |
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| urt receptions are in future to ap- | tia |
| in European clothes. After | must remember that it took thre |
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| arded by compete | faith that in time China will he Chris- |
| a slur, not upon the I | nized, and its |
| tret liartus whole proem is to | become the subjects of the l'rince of |
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to the one in the above letter in these
words:
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$\qquad$ditor "'The -time ago, entitled ".Coming to wrote someHour page. $\begin{gathered}\text { I } \\ \text { I tomain, yours }\end{gathered}$Coming to Christ in Youthshould appeal to the minds of the young.
We read in the Book of Books these
words: "Remember now thy Creator income not, nor the years draw nigh days
come not, nor the years draw nigh, when
thou sayest I have no pleasure therein."Our Saviour snys, ", "They that seok Me
early shall find Me."us to come to Him in youth, because we
can devote our entire lives to his service.can devote our entire lives to his service.
It is also much easier to come then than
it is when older and mero
sin. The young tree or sapling is morenasily trained up into the desired shape
than the old and hardened oak that hasthan the old and hardened oask that hasdriving along the highway, the writerdriving along the highway, the writer
could not help but notice two small chil-
dren walking niong in
race, the denrest and best of friends,
ame to mind: "Verily I say unto you,
$\qquad$

Hope's Quiet Heur.
The "Unpardonable Sin."
$\qquad$
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Minitual privileges-they only make us
worse. I think the answer to ${ }^{\prime} \Lambda_{n}$ Inter-
Few of us realize the kreat risk we ar
rumning by putting off the day ofsalvation. We are told to scek the Lourd
while HeWhile He may he found, and to call upon
Him while Ho is near. There may bo
serms to to telling you to accent the
Saviour and to come out on HisDnviour nnd to come out on His side.
Dhear radier, this is a time when the Lord
is near, and it is your duty
hns also waid, "My sin
ways strive with man."
could not have set forth o better examur
of what we have to bo before entering that
Holy City Holy City. If a person dons not come
to Christ in youth, it is seldom they come at 40,50 or $60-$ taking that thast
and great risk, $n$ death-bed repentance If such a mo isk, is dent downed repentance. ment's warning-us so many are in this
fast age-then wo write across their life the snd word, "Iost." Can we imagine
anything worse? No; not this side anything worse? No; not this side of erernty, Our Saviour snid, "Be ye alsc
ready, for in such an hour as ye think not, the Son of Man cometh." It also said that he will corne as a thief in the night. Dear reader, vou may no che strive with man."


Our Saviour gives His children many
precious promises. There $\begin{aligned} & \text { is one that } \\ & \text { seems very comforting. He not only }\end{aligned}$
He
promises to be with us on the rough voy-
age of life, but He says, "'So I am with age of hife, but He says, en ." What
you alway, even unto the end." What
a great Friend to have in the crossing of
May we nll be able to sing that beautiful old hymn, "Abide with me, fast falls
the eventide, the darkness deepens, Lord the eventide, the darkness deepens, Lord
with me abide." Dear Hope,-I was so glad to get you Dear Hope, -1 was so
letter again in "The Farmer's Advocate. Just the kind of a letter that helps me elong my path in ine or have missed
your letter so much for several weeks
now. Those little letters from suluscribers are very good, but none of them seem I hope to see a nice letter of your own
every week. I hope you will not think me selfish, but I am struggling for that higher life every day, in fact, nearly every
hour, and as no real Christian people live near us (and we are five miles from church, and roads bad), I am sure you
will understand why I appreciate your will understand wh $\qquad$ very truly
READER
The Ingle Nook
sult, our architecture, in far too many sult, our architecture in far too many
places, has beon drifting into a deadly
monotony. Now, this is all wrong. We dozen who have ne
received my gifts. received my gifts.
Enjoyed that article in the Ingle Nook
of Febrer should try to build a house that will of February 24, 1910,-the best substiexpress ourselves, not one that looks tutes for meat,--does not say who wrote exactly the same as five thousand others it, but I think it was our Dame Durden.
along the road.
You will say it is a good thing I only along the road.
With to-day's issue, then, appears the come onco a year, by the thang th of this
first illustration of our series, which letter. Just publish what you think hrst illustration of our series, which letter. Just publish what you think interest the city people ! Why don't
shows a substantial cement-block house would be interesting. Thanking Dame they move to the farma ? Why we're with a very wide veranda, much wider
than the phote well shows. Were the kind help. Hope and the Nookers for their enjoying it. We can pay for our farms
AUNTIE. than the photo well shows. Were the
house mine, and in the country, I would
$\begin{aligned} & \text { kind help. } \\ & \text { Wellington Co., Ont. AUNTIE. }\end{aligned}$ ithe improvements we need). And, My dear, nothing that I can do for the
navigate to have the kitchen handy to
such a veranda as this, so that I might Chatterers is a trouble. Was the book such a veranda as this, so that 1 might Chatterers is a trouble. Was the book
live on it just as much as possible dur- which I mentioned Grant Allen's "Story
ing summer. which I mentioned Irant athen hower, that
of the Plants'? Ithink, however, your-
you would have to read this book your you would have to read this book your-
self and re-tell it, in simpler language. self and re-tell it, in simpler language,
to the children. post card. the name of a firm that pub-
 Show, but they photos after the London
 over so many papers, but you would be coloring more cheaply than you can buy
partly repaid if you could see the bovs it looking at themselves in the magazine or else ordinary dye Many buy the
My little ones send many thanks to you. stencil priper and cut aut their oun da I have looked in so many of "The Farm- stencil paper and cut out their own de er's Advocate's" to find the name of that
book you told me to read to my little $\begin{aligned} & \text { cult. } \\ & \text { Whether you have a pantry or just wall } \\ & \text { ones, to tell them throuch flowers about }\end{aligned}$ cunhoards must derend upon your own

$\qquad$ wash-room, but thought, perhaps, many colors off the kitchen might ook well. Could not get an oilled or arnished paper of a wood pattern, oak
It is all painted now, and d like a change of something light. The "Cost of Living," how it seems to
interest the city people! Why don't the improvements we need. And, of
course, we can enjoy the high-priced foods
coo, knowing they were not in cold. torage.
arge, with the intention that you wit nake the farm serve you and you will serve the farm, ns that is what so often Now, herre's a little advice to the dis--
Nown 1 shall make my exit, feeling as though have stayed long enough: as though
he friendly with the Pectable company; bave plenty of goodt
feading material in the home, and whan
 \#ill not teal the courtyy witurn mo mo sincoe con ont on north and weet
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 dreess with communieations. It pen-2ame is alsogiven, the real name wil not be pubished.
(3) When enclosing a letter to be borwarded to


The New House. A lung time ago Bacon said, "House are built to live in and not to look on,
therefore let use be preferred before uni-
formity, except where both mav the had Leave the goodly farbics of houses, fo
beauty only, to the enchanted palaces beauty only, to the enchanted palaces
the poets, who build them with smal Now, there was a good deal of com-
mon sense in all this, us in most thinga that old
good sen Couse, no matter how beautiful in ap-
pearance, which was built without the slightest regard for convenience. Houses
uust, first of all, be good to At first raading, inded, the extrac
seems over-practical. One would almos
$\qquad$
saving adverl, for heaty ony
going on a little further in the essay,
a portion not reproduced hare, one fint for appearanc. after all. He would loo
not only to the site. He that builds rair house upon an ill seat commiteth
himself to prison -lbut he would con
sider tho riown (h) slace the view, the laying out, the
decorations, the gurden, even the furnish ings,
thought upon, "he And so he proves that
the modern fashion of trying to combine
theauty with utility if not to

beauty with utility is not so new a thing after all.

me questions allout house-huilding of
that 11 have decided to run a numb


Attractive Hom
 that I have decided to run a number of $\qquad$
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## MADE TO YOUR MEASURE <br> But NOT Custom-Made



 therefore, out of the question.
PAQUET Garanted CLOTHES' are cut to fit BEFORE they are made up at all. That's why
Cle we can GUARANTEE them to fit PERFECTLY. Our new GUARANTEED to be the best value


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$\qquad$ READ THESE OPINIONS FROM SATISFIED PURCHASERS:


Write For FREE STYLE BOOK





पदBEBA
our general catalogue
Sor Spring and Summer is overflowing with
-pecial values of interent to every reader of this paper. If you have not yet received a copy,

wpite for yours Now. Simply say "send your | Catalogue No. $23 .$, and you'lil receive it just as |
| :--- | hoon as the mail, can yet it to you. You NEED WRITE TO-DAY!

## Concerning Shipments of Goods



THERE is no better way of locating goods, keeping track of things, and getting rid of mountains of detail than by the Bell telephone.

No other way is so far-reaching, so quick, so inexpensive, so satisfactory, and so necessary to the progressive business man. It is the modern way and takes the place of a personal visit.

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THE BELL TELEPHONE CO
of Canada.

THE LAST WORD IN BIBLE INDEXES Tho King's Printers' Chromatic Cut (or Thumb) Index

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IN Inex denotes the variou, groups
The Pemateuch.
c
Teachers, and all libible Reader
quisiition. None can afford to be
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    All the above are hound in the Best French Morocco. Yapp Edyes wint
    retall at all booksellers
    Sherlock-
Mannus
Organ for church use
designed case, special bellows that reduc
eeds that produce the famous $\mathrm{S} .-\mathrm{M}$. to
surpased for
larly adapted

Sherlock-Manning Organ Co London, Ont


Please Mention this Paper.
change the seed of them for bulbs. He have a refining influence in the home.
said he would. My little girl and I My little ones very early showed thoin said he would. My litter girl and I My littlo ones very early showed their
picked the secd, a yery tedious task it love for the beautiful blossoms. My first
 was a grand display of early flowers the all the daisies in her pinafore and bearought
next spring, and for years after. Iespe- them to me and next spring, and for years after. I espe- them to me and said, "1'itty fowars,
cially love the early flowers, as they come mamma !", I was sorry for the daisies.
at a time when most needed. The cul- but she soon learned better. She hnic ture for them is good gardlen soil, no long ben sleeping beneath them. hat
manure, and well-drained land. After tuk- onoungest bov auld rum manure, and well-drained land. After tak- youngest boy "ould run out in his
ing up the bults, which I keep, in paper nightie in the mornings to count the
thags till planting time. we apply well- flowers beforo having his treakfost Fotted manure and dig it upder some- there was great delight when anything
times plant it entirely of gladioli, then hew was discovered. My flower gard gain of geraniums.
We have nearly all kinds of perennials now is only a ghost of other days, as an 11
which in the sere and yellow leaf ; my
 Th come hefore the annuals are ready. lawn. She takes plasasure in the wark
The peonies and rotes flower together, My husband and I raised soven child
and who dons not love tham? they were tovely. The rose all July, but conse or mean of wature, noll doviny the one
thare for the uplifting of humanity Ne our roves all the soot and suds we example of pure ilves. They were the
ave as a fertilizer.
avern and raised to men and women in


 My Negetable Garden
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DIRECT FOM PAGTORY To RITCEINT


## SETVS all MIDDMEMINS PROEITS



818 or 918 - Elevated Tank or Flush Reservoir for Coal and Wo解
CASH
PRICE 41
Delivered to any Railway Station in
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OVER 6000 OF OUR RANGES IN USE IN TORONTO ALONE
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TORONTO, ontario.


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## SEALED LEAD PACKETS ONLY

 The native purity and garden freshness of

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is preserved by the use of sealed lead packets.

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Thursday, April 28th, 1910

Twenty-six pure-bred Holsteins; many $3 / 4$ and $1 / 2 \mathrm{bred}$. Holstein
and good grade cows, with calves at foot; is horses. Also boiland engines and fittings. Giving up business. TERMS: 7 months on approved notes.
under $\$$ Io.oo, cash.

Sale starts 9 a.m. Hot dinner provided.
Farm at Stop 19, Metropolitan R. R., Yonge St, North To ronto. PRENTICE, Auctioneer. ALEX. BRYCE, Prop,
Eglinton, Ont.
C. MURPHY, Clerk.
$\qquad$ Eglinton, On


For clean, close skimming and durability the MELOTTE has no equal. It costs more, but get the best. Have a MELOTTE sent to your farm and prove this for yourself. \% * *

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the name of an illustrated booklet which has just been published and which has just been published, and

which gives some very interesting
facts in regard to the telephone in facts in regard to the telephone in
Canada. The illustrations also
indicate indicate the value of a telephone
in the rural home. If you are in-
terested in reading the story and terested in reading the story and
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## A Telephone With a Muzzle

$\qquad$


Current Events
For Farmers' Use Only-Jones Patent Hay and Grain Elevator




FIRST
ANNUAL OTTAWA HORSE SHOW howick pavilion, ottawa.
MAY 4th, 5th, 6th and 7th, 1910
FIVE THOUSAND DOLLARS OFFERED
cession found impossible, the Govern-
ment would either resign office or
recommend the dissolution of Parrecommend the dissolution of Par-
liament, assured that at a new elec
tion the iudigment of the people tion the judgment of the people
would be carried into law. An impression is abroad, however, that the
Premier will not ask the King for guarantees.

TRADE TOPIC
Shearing sheep by machine is a system if doing the work that has come to stay
In those sections of America and other In those sections of A merica and other
countries where flocks of any considerable
size nre kept, the size are kept, the power shearing ma-
chine is in common use. It is generally
conceded that where a fock sheep are kept, it pays to of have a hand-
power machine. An enterprising man in any district may make it a paying in-
vestment to purchase a machine, and contract to shear the flocks in his neighbor-
hood at a stated price per head, and, with a hors-clipping attachment, may
muke money in the winter and spring
also, as the clipping of horses is steadily becoming more popular. The Chicago
Flexible Shaft Co, in their Flexible Shaft Co., in their advertisement
in this paper, call attention to their
Sown fowart bell - bearing clipping machines
for horses and sheep, which are eold at a very moderate price. Se the adver-
tisement, and write for their descriptive
catalogue and illustrated pamphlet encatalogue and illustrated pamphlet en-
titled, .Fxpert Instructions on Sheop-
shearing hy Machine.."
$\qquad$ Dennis Huley, a farmer living near
Braslier Fallo, N. Y., has an eight-year-
Olt gave birth to twelve calves, as follows: years, triolets, at age, twins; at foears, fwins; at
six years, triples; at seven years, did
not breed, at eight years, twins. All
the calves are living, with the exception
of the last pair. nelcalfe Street. ottawa.

## Summer Spray

NIAGARA BRAND LIME-SULPHUR ARSENATE OF LEAD NIAGARA is the only absolutely rellable Lime-Sulphur Spray, because it is made right. It is a permanent solution of thlstest trisecttctdat, and fumstcidal power. Analysis is sta
CANADIAN COMPANY.

ARSENATE OF LEAD is the one polson that kills all kinds of chewing insects. or follage It sticks to the leaves. It mixes eacily and stays mixed. FARMERS AND FRUIT-GROWERS, with these sprays you can grow Apples and Plums free of rot and curcullo
COMBINE these TWO SPRAYS in ONE. This saves time and money. SPRAYCOMBINE these TWO SPRAYS
ing is Investment, not expense

Write for our Book: "SPRAYS AND HOW TO USE THEM
NIAGARA BRAND SPRAY COMPANY, Limited, Burlington, Ont.

THE FARMER'S ADVOCATE


AFRHL 21, 1910
QUESTIONS AND ANSWERS Miscellaneous.

WHITE SCOURS Please give a cure for white scours in
calves in your next issue. They take fad about $t w o$ days old, and only last disease and cure. They dive name and feces white and thin, like waterl ale White and thin, like water. A READER
Ans.-Read article in this issue on sult RED AND BLACK PAINTS. What is a good recipe for red and black
$\qquad$
$\qquad$ in, with a little turpentine or liquit drier added. There are many reds fron hich to choose, and any of these mixic but reed lead and "Torgored red" mampblack and for makes a ing implement. amplack and oil makes a lasting any
batisfactory black paint for some purloses, but what is known as "dron"
lack,", which can be got either in paste hack," "hich can be got either in paste
lorm or dry, is generally used for imple ments. The last coat of paint shou
have a little varnish mixed with it,
hive ORIGINAL SHORTHORN COLOR -SHORTHORN-ANGUS CROSS USUALLY HORNLESS. hhorthorn breed of cattle? Was not th bevons? of a woull-bred Ahorthorn cows, when breed uce calves entirely free of horns?
$\qquad$ thite end in its canty orivin, and conpp ominating colors in have been the pry days, yet rint
as also present aty
 reordi, wis an when ot which thee Nowngs in the short wom hist orer to
 alfalfa on sandy hill








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THE FARMER'S ADVOCATE


## "Monarch"- ${ }^{\text {tur }}$ most MODERN STRAIGHT-STAY FENCE

The most modern fence machinery in the Dominion makes the Monarch Stiff-Stay Fence. This machinery a fence just as you would build it yourself. It makes the Monarch with every strand of even length.
every stay stands periectiy plumery the Monarc stretched up. Thanks to this machinery, the Monarch lock is applied without requiring the strand or stay wire
to be unduly kinked. But the whole story of the Mon arch superiority cannot be told in this space, so write for catalogue giving complete detail

## THE SAFE-LOCK FENCE

Is built on similar lines to the "Dillon, except that the lock is positive; cannot slip or get apart, and the strand
wires are left absolutely straight (excepting for the usual coilt, therefore are 200 pounds stronger than any ordihows the lock in detail and explains shows the lock in detail and explains
why the strands are left perfectly why the strands are left perfect
straight and still the lock cannot
used in strands, stays and locks.

## If you're a Hustler, write us.

W', fence-arency proposition we would like to submit to you. No other fence concern has a line equal to the Monarch and Safe-Lock combination

Ihe OWEN SOUND WIRI FENCE CO., Limited, Owen Sound, Ont


## The CAPITAL Is the Gream Separator that will "Buy Itself" For You.

post eard for The have road thle advortioemont, eit down and writo the eary-munning, eream-asing mooparator, but not only tolle the atory of The Capital in your own dairy practically withous sonting you a oent. porfoot meoblng and mon-wearing the woilthorful Capltal goart, abowo an automatic elutch etops them runnlag the mhate you lot go of the handloand abont how they give the light, three-and-a-hall-pound bowl, 7,000 revo-
lutione a minute. and why Capital ardme elocer-why The Capteal waates loes than onowith the cream that other coparatore wasto-and then ox-
planins how the machlne plaine how the machine can be made ewoot and elean in two mfnutes after you are through uaing it.
This book te full of hard-and-fest feote - separator facte - which overy alryman owes it to himeolf to know; facte which will prove revelation Who if not famillar with The Capital.
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& \text { MONEY ORDERS } \\
& \text { FOREIGN DRAFTS }
\end{aligned}
$$

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Morey






The Waterous Engine Works Co'y, Ltd brantrord, ontario.


## Seeds that Grow Dollars






Tin 1


WM. EWING \& CO., SEEDSMEN, McGill Street, Montreal.


QUESTIONS AND ANSWERS Miscellaneous.

CONSTRUING A WILL

$\qquad$ to B, who is to pay C and D $\$ 700$ each
Remainder of property to be sold Remainder of property to be sold and
divided between B, C and D, also cash that may be in bank. Before $\Lambda$ dies, he sells farm left to B, and deposits money
received in bank. Is is entitled to prisent received for farm after deducting $\$ 700$ each to ${ }^{\mathrm{B}}$ and C, or will all the money
have to be divided between $\mathrm{B}, \mathrm{C}$ and Dr If the money is equally divided, B will
receive lese than half of what he would have got it farm had not been sold. K
Ontario.
Ans. We think that all the money, in
cluding the proceeds of the sole farm and of the rest of the property, will
have to be divided equally between B,
and I), unless they arne division of it. FRAME HOUSE
$\qquad$ sented out for brick veneering or cement-
ing. How would lathing the outside and
nlastering it with cement an. and what proportions of cement, lime Ans.-The outside plastering that yo
suggest as a means of improving then
warmth of ar men Warmth of frame house is not so muc
ustd now as formerly. It would pro
ably serve your purpose very well for monly been used for such work, but a
practical plasterer infornis ws that if co-
ment of nn equal quantity with gray
lime were used in making such hair
plaster, its durability for outside work
pres would be much increased. A finishing
coat of cement and sand should be added GOSSIP.
$\qquad$
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## FORESIGHT ${ }^{\text {Means PRovident carb }}$ FOR THE FUTURE

Is it foresight to waste money on a fllmsy Cream Separator because it is a little lower in price? It may skim for a short tlme,
soon sets out of repalr and is ready for the scrap heap in a year or two. select the strengly-bullt MACNTT Made by the Cream
Separator Speclallsts, The PETRIE MFG. CO., LTD., HAMILTON


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THE FARMER'S ADVOCATE.
QUESTIONS AND ANSWERS.
Miscellaneous.
SEEDING HARD SPOTS IN PA
TURE-SICK FOWLS -DEPT.
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tect, to beautify, never to peel,
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for the lifetime, of pure ppints
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All Horse-Collar Troubles Now Prevented or Quickly Cured

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GOSSIP alfalfa pasturage for hogs. As to the amount of pasturage or the number of hogs allatata will carry per arere
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Dr. Page's English
Spavin Cure


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Auction sales of Horses, Carriages, Harness, etc., every
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Our 1909 importation of 20 Percheron stallions, from
ito 5 years of age, are now in our stables. Up to over a
ton in weight. Big stylish ton in weight. Big; stylish, choke-full of flashy quality,
and faultless movers. Prize invers among them and faultless movers. Prizewinners among them. The
best lot ever imported to Canada. All are for sale on HAM
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| 既t sale ring and stables in Canada. We |
| ers, |
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T. H. HASSARD'S NEW IMPORTATION!
 are now in my stables at Markham, Ont., and, as usual, I have a big range for
selection, of a type breeding and quality seldom equalled, never excelled, by any selection, of a type, breeding and quality seldom equalled, never excelled, by any
pervious imoortatoon call and
see them.
Phone connection. T. H. HASSARD, Markham, Ont. CLYIDESDALES ANID HACKNEYS

 1 mported Clydesdales $\begin{gathered}\text { My new importa } \\ \text { tion of Clyda }\end{gathered}$ 1910 have arrived. They were eelected to comply with the Canadian stand dat
size, tyly quality and taillest underpinning with conland richest blod
priced right., and on terms to suit C. W. BARBER. GATINEAU PT CLYDESDALES,


QUESTIONS AND ANSWERS. Veterinary.
SEQUEL TO SCRATCHES. Horse had a bad attack of scratch
The crachs are all hated now, but
leg is badly marked and serunfy. Ans.-Scars of this kind ure very ha
to remove, and the hair will never gro to remove, and the hair will never gro
properly akain. All that an the done
to soften thi. scales and strumf and run
them off. Dress three times daily wit them off. Dress three times daily wit
oxide-ot-zinc ointment, which you will get
at any drap store. Rut) the ointment ${ }^{\text {at }}$ AbORTION.

| ago from no apparent reasons. The fet was only about the size of a rat, ar |
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abortion? No others have aborted
Would it be sate to breed her again?

artial paralysis

Miscellaneous
DISTEMPER


THE FARMER'S ADVOCATE


QUESTIONS AND ANSWERS Miscellaneous
DUTCH SETS $\overline{\text { AND }}$ TOP ONIONS

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Ans.-The onions Which produced a
large number of small ones in the clump
lingend
$\qquad$
$\qquad$
yet above the ground, from which they
game of top onions.

1. How Arar numay should a hogppn,
that keeps trom 8 no to 125 hogs during
or summer season, be from a creamery
or buter factory, so that the odor from




THE SPRUCE GALL-LOUSE.


## FINDS HIS WORK <br> A PLEASURE NOW

Dodd's Kidney Pllls Cured the
shool teachat sest asked the sunday
Tohny's hand went up.
In The Dark.
Doctor fald Hoart and
Nerves Wore Responalble. There is many a man and woman toser-
ing night after night upon a meoepless bed.
Their eves do not aloso in the eweet aud refrehing repose that comee to those
whose heart and nerves are right. Some whose heart and nerver are right. Some
eonstitutional disturbance, worry or eonstitutional disturbance, worryy
dieease has mo dobilitated and irritated
and the nervo
quieted.
Mrs. Calvin Stark, Rosmore, Ont, to bo troubled with a mmothering sensi got so bad I could not loup in the dark, got so bad 1 ould no neap in the daris,
and would have to ait up and rub my
timbs, they would booome no numb. timbs, they would beoome no numb
My dootor said my heart and nerves were My dootor said my heart and nervea wery
responsible. I naw Milburn's Heart md Nerve Pillo advertieod and got a box
try them. I took three boxea and can try them. I took threo borea and cat
now lie down and dleep without the light burning and one rect ill. I can rooomlown womon,
Prig 0 ,
819 at all dealler, on T. Mill diroot on Liopith of price, by
Toronto,
ont

| MIDDLEBROOK Aberdeen-Angus <br> Surplus cattle all sold John Lowe, Elora, Ont P. O. and Station. |
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| MESTEAD ABERDEEN-ANGU <br> Two extra good bull calves left, 9 an Il months old; also females, all age WM. ISCHE, Sebringville, Ont Long-distance Phone. |
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| ABERDEEN - ANGUS <br> Will sell both sexes; fair prices. Come and see them before buying. Drumbo station. |
| TER HALL, W |
| "Who can mention one leading about the Fpistles?' asked the Sunc school teacher, looking over the class. Johnny's hand went up. "Well, Johnny?" |

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wear or to cat he isn paying enough
attention to foud values when it comes to his own table. He feeds his stock carefully, avoids
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turn in strength and general efficiency. sive rescarches and experime enten on
the question of the bent human flond
for muscle and brain he will heecd the
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MUNICIPALITY AND SHEEP. Are we responsible for sheep killed by
dogs, when we have not at any timy
taxed dogs in our township? We werr
going to some years ago, but were perti
 number. Our lawser thinks we are,
cause we had not passed a ly-law again
payiny for shoop Ans- wo think
ASHES ON MEADOW OR GARDEN would be the most profitable, to use Ans.-Use on the garden all the ash".
you can apply to advantage., say at th
rate of forty bushels per acre. Intensive labor. should always have first call
manures and fertilizars POULTRY BOOK What poultry book would you recoill
mend for to make them pay: Buildin Ans.-We do not know any poult American Poultry Culture, by R. A
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lent suggestions. Price, through th dfice, $\$ 1.25$, plus postage,
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Ans.-There are proprietary prepar
tions. for waterproofing cement on th
market, some of which are consider
satisfactory, while others are scarcely
in any case, preparations containing


ROPE BURN-CEMENT FLOOR FOR HENHOUSE. ot her foot over the rope halter-sha
ate last fall, and there is still quite
indly tell me something , that will he and take away the crusty scab. It seen
cery sore, and hllecds casily even yet.
2. Do youl advise crment floor for he

Ans,-1. This was really a turn, a

We would not advise a cement fi.
Ss rats are troublesome, though, if $k$
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which he ne nlow owns land on the othor sidid at larg

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