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Those who have yet to buy a separato to learn all about one and what the De Laval would opportunity for them, as it is already doing for its $1,500,000$ users and save There will be De Laval representatives in users discuss and explain anything of separator interest to either to new friends. Be sure to look up the De Laval booth.
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| BULLETIN 33 |
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## EDITORIAL.

thastern Canada needs

With the cool, moist weather of late July alm fill almost as well左

A good many patches of timothy have been left for seed this year. Nine-dollar timothy seed would rather sell than buy much at spring. W

Live stock is essential to a true rotation crops, and a true rotation of crops is essential of a first-class m, and, the owning and operating the majoritys mixed farm should be the aim of the rural population

Do not pasture new seeded alfalfa and never pasture any alfalfa close in the autumn unless you wish to kill it. One of the best helps to is a good growth covering the through the winter is a good growth covering the ground when freez-
ing weather comes in the fall

A top price of $\$ 10$
A top price of $\$ 10.40$ per cwt. for corn-fed weef on the hoof in Chicago, early last week, range steers, is the cheering report for feeders range steers, is the cheering report for feeders
with fat cattle on hand Foll of $\$ 10.25$ the on hand. Following a top price " beef scarcity " in capital letters. figures spell
A flock of fifty spars
eruivalent of a fifty sparrows requires daily the of the United States Biological Survey Dearborn Dearborn recommends trapping and using them as food, keeping them alive in outdoor cages til wanted for the table. It is unprofitable, how or other food required daily quantity of grain deir own weight.
' Corn can't beat half a crop, $\qquad$ correspondent phrases a pretty general situation Barring the chance of a most extraordinary lat summer and fall, much of the corn is bound to be immature, as well as thin and.short. The man with the silo is fortunate in being able, at least to make the most of a scanty crop.
dian " look upon wheat as the backbone of Canadian prosperity," says A. W. Smithers, Chairman but, with a little less attention Company. Possibly, little more to live stock thention to wheat and a West would be placed on a more solid footing, Western soil would be more fertile, Western fields cleaner, and Eastern agriculture less acutely discommoded by the annual Macedonian cry for help. It is always stimulating and instructive to
know what other men are doing in one's own line know what other men are doing in one's own line, to a man we far or near. It is specially helpful to a man with stable judgment, considerable personal experience and a thorough grasp of scientific may he unduly carried these means of ballast, he may he unduly carried away for a time by new-
found enthusiasm and ill-considered ideas. Breadth of information and ill-considered ideas. Breadth the opportunity depends upon the man. We need o keep our thought digesters working full time.

LONDON, ONTARIO, AUGUSP 22,1912
The Problem of Rupal Finance. In the opinion of David Lupin Internan, who was instrumental in foundino th the judgment Institute of Agriculture, and also in Congress, held at Nashville States Commercia lems of rural finance lie at the basis May, prob tempt to improve United States rural every at Only through the possibilities obtainable, declares the Congress, can theely wealth of the farmer, based on his character and assets, hecome active wealth. The question primarily, is not so much one of "cheap money, as or money in its most effective form, money not use of the use of individual farmers, but for the lieved by-operative groups of farmers. It is be it system by many that in the rural co-operative credadapted the principles and plans the Congress in arears, and at oughly investigate thortzsch and German the Raiffeisen, Schultze-Deliidea of their significance the fact that the three systems gathered from do a total business of over $\$ 5,000000$ in a year further, that the corporations or trusts 00 ; and ously controlling farm products in Amer said practically to be unknown in Furope Th keen struggle for subsistence and the great co government, largely as a result of militarism have impelled the farmer there to force a settle from or these problems, and emancipated him agency claws of corporations through the the of co-operative banking. The decision of mitte ing er, representing every State in the Union go tional Europe at the time of the next Interna 1913 Institate meeting at Rome, Italy, in May tems, mine to what extent thean farmers, and deter ditions in America.

## "Syndicalism.

The "man in the street" who has sufficiently it clearly from anarchy socialism to distinguish to him in the form of "syndicalism." a coming invention, whose name is derived from "syndicat," he French term for a trade union. Literally it means unionism, but as pointed out by an article a the English Review, and quoted in the Review of Reviews, it has become the term for a revolutionary economic movement which contends that action revolution must come through the direct Syndicalist Socialists and of the rolition private resent duction, but while socialists means of prochange about by political action thro bring the mentary measures accumulating through parlialists believe the best and simplest way sydicaing a new social order is by the various creatzations preparing for taking over their industries and carrying them on for the benefit of what they are now calling the collectivity. As the greatest practical experiment in Syndicalism the article cites the Industrial Union of the Bottle Blowers, of Italy, where a factory was started by and union to emply certain striking comrades fter factories employ 2,500 out of the 3,500 members

Eit Union. Every member of the Union said to be a shareholder, even those working in threateries of the Trust. Fven agriculture threatens to be directly affected by the new move ment, for we read that 200,000 acres of land in lan have passed into the hands of the farm Societie ganized into Unions and Co-operative

The Syndicalists' plans are so far-reaching and involve such momentous social chand Society as a whol is changes, tha been asked, "What does Syndicalism has therefore classes of society not syndicalism offer to those The Syndicalists have solved in manual labor? tending the meaning of labor so to by ex productive work. Teachers, doctors, clerks, and the like have been organizedists, syndicats and have joined the army of organized workers. The Syndicalists propose to organive in the same way all those who do some useful work for society, or, as they express it, "syndiciety society. Their idea is to transform society into a federation of self-governing productive groups working together for the benefit of whole instruments belonging to society as a whole and under the supreme control of the com-
$\qquad$
What defects of practice the future may reveal co-operative effort to be seen, but as a phase of co-operative effort the movement is at least worth
watching.

## Progress of Agricultural High

 Schools.Agricultural high schools are steadily comin tinguished from State United States. As dis such schools are now colleges of agriculture seventeen States. They vary greatly it leas equipment, income and size of have one point in common, as differing from, bub lic high schools which simply maintain from pub in agriculture, viz.: that while the latter offer general in college preparatory secondary courses, he special agricultural high schools confine their when to technical courses in agriculture, mechanic arts and home economies, supplemented by such Work in mathamatics, English, and the natural sciences, as are needed to round out the technical work with a fairly good vocational course for pursu men and women who do not intend to these arcollege course. The territory served by areas coverin ary from a county to state. Maryland one-third, one-half or a whole Carolina, North Makotan, Mississippi, North adopted the county unit and Wisconsin have the congressional district, Alabama and Georgia, court judicial district. whil Call the supreme ado, Massachusetts, Minneso N York, Pennsylvania, and Vermont have determinate areas.
Wisconsin was the first State to estable county agricultural schools. In 1911 thatis had five such schools in operation, Maryland Michigan 2, Mississippi 23 and North Caroling Alabama was the first to have a complete system i congressional district agricultural schools, 9 number; Georgia has 11; Oklahoma has 5 judicial district agricultural schools and one special district school. California has 2, Col rado 2, Minesota 2, New York 3, and Massa each maintenance

THE Farmers Advocate and HOME Magazine the leading agricultural jourval in the dominton.
published wekrly by
the william weld oompany (Limited).
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Aseate for
Farmer's, Advocate
Winnipeg, Man. advocate and home magazine

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 Address-THE FARMER'S ADVOCATE, or He william weld company (limited)
million dollars. In the Arkansas agricultura school legislation it is provided, after the build ing and temporary work, that all work in and about said schools, including farming and care school is controlled by a board of five trustees the shall be intelligent farmers," appointed by Students must of the state for ten years. the inauguration at least fifteen years old. With in operation a definite systeols Arkansas has education, beginning with system of agricultural and extending through a four years college schools From an account of these schools writtense bulletin No. 250 by C. H. Lane, assistant in agricultural education office of experiment stations, U. S. Dept. of Agriculture, they appear to be conducted in commodious and hand somely equipped buildings, connected with farms conducted to suit the needs of the institutions and the farming country from which the students In the Russellville school the plan is to provide an acre plot for each student to be responsible therefor. The tuition is free, but there is a charge for actual cost of board. The Magnolia capacity for seventy-five students a dormitory proved inadequate, and a new dormitory with accommodation for 128 students has been pro-
vided. The four main widtinus besides cottages for the teachers. Marnolia rave a $\$ 50,000$ bonus and four-hundred acres of lam Mawards the school-nothing stingy ahomt towns in south western Arkansas! The fourth District school at Monticello is a fine, well
conducted institution, with an enrollment of 201 regular students and 50 short course students whom the photogravures show to be an enthusi
for agriculture and home life, and will not be actories, stand behind counters or drag in an
$\xlongequal{\text { existence and street car conductors. }}$ HORSES

Keep a supply of oats in the colt's box and

Care should be exercised in leeding oil meal to horses, as it has a laxative effect, and may, if should be borne in mind by fitters who are preparing for the fall shows.

We are inclined to think as Henry, who, in
his " FFeeds and Feeding," says: "A healthy
horse needs nothing but good food, pure air,
plenty of exercise, with due attention to cleanli-
ness, and regularity in feeding and watering; and
when all these things are attended to properly,
the drugs and nostrums, that stable lore pre-
scribes as "good for horse' would be better thrown
to the dogs."
Quids of grass, finely chewed and rolled to-
gether, and found lying about in the horse pasQuids of grass, finely chewed and rolled to-
gether, and found lying about in the horse pas-
ture, are the result of trouble with the teeth horse should be permitted to go until his teeth have become so uneven. Horse-owners should make it a practice to have the teeth of all their
horses about which there is any question exam horses about which there is any question, exam-
ined and cared for by a capable person.

Do not jam the horse's manger full of hay at
noon. He does not require a heavy roughage ration at this feed, and if hay is left in the manger
until "until night, and not removed, it serves to you like to finish your noon meal at nimht, and
off the same plate, unwashed? The horse is sensitive about his diet. The greater part of the
hay should be fed at night, but even then than is eaten up clean before morning should not

## Alfalfa for Hopses.

Much is said about alfalfa for dairy cows, garded it seriously as a horse feed There is doubt but that well-cured alfalfa makes one of the best hays for winter feeding of farm horses. following, taken Wallace's Farmer contains the ute circular. " In Western Kansas, farm horses have been walfared hay and daily ration of ten pounds of alfalfa hay and some stover, and thin horses fatbeen found that horses a hotle corn. It has tion of alfalfa hay. Fed with grain, probably 10 orther haynds of it is equal to a mangerful of to four. An ordinary a nutritive ratio of one all he will eat of it, will eat from thirty to forty tains about 11 per cent. of easily-digested prod tein, and the horse will take into his system nearly four and one-half pounds of protein, where as about two and one-half pounds of digestible pounds wat that an ordinary horse of 1,000 horse is allowed to eat such quantities, half a it is wasted ; moreover, it is likely to injure him renly put to work. horses produces kidney trouble. The foung alfalfa to for this rumor is the fact that, when foundation fed to a horse the first time, it does stimulate his kidneys so that there is a noticeable increase in disappear in a short time. If alfalfa is fed in
$\qquad$
$\qquad$ since alialfa has been used, not one case of this is a a rare has developed, and that colic in his horses again if the men did not occasionally feed injudicionsly of corn. or overceed with alfalfa hay-

The Hopse Not Losing Gpound The Horse Must Go," is an expression whic of the autear fall from the lips of some admire tons of merchandise, rolling steadily over it smooth city pavement. The increasing number of horseless carriages for pleasure, for speed, and or carrying heavy loads, leads one to stop and weigh the matter carefully. Must the horse go ? genuity of man in inventing and constructing mchines, vehicles and implements operated ma power manufactured within themselves, drive the horse into oblivion? Joseph Montgomery, Secretary of the Minnesota Stallion Registration
Board, claims not. True, horseless carriages and rucks are increasing in numbers, but, as Montgomery says, never in the history of the
draft horse has the future appeared so promer draft horse has, the future appeared so promising to breeders as at present. There is no reason,
in the light of statistics, why trie doom of the draft horse should be spelled by the auto in the cities the enormous number of auto trucks were crowding the draft horse out of business they tual figures presented by Mr. Montgomery do not prove it. In Minnesota State alone, the number
of sires used for horse-breeding increased from of sires used for horse-breeding increased from
3,544 , on May 1 1st, 1910 , to 4,445 on May 1st, 1912 ; and during the same time the number of registered.
per cent.
Never in the history of Chicago and St. Louis Tnited States, has the horse exchanges in the the prices so high for high-class horses of all types. Statistics from the United States Bureal horses in that country has increased from 13 500,000 to $21,500,000$ in the past decade. The average value of all horses in the United States as increased from $\$ 45$ to $\$ 115$ in the same peri First-class draft horses have been almost pro demand for them this year, because of the grea often sold as high as $\$ 800$ to $\$ 1,000$. The de mand for high-class saddle and carriage horse in the Eastern cities has been so great that their
prices have been almost prohibitive to who operate automobiles breeders both in the United States and Canada This is a fair estimate of conditions in both rapid a rate the last two years, and prices have kept soaring, in spite of the increase, there is no
reason to believe that the automobile will ever drive them out of business. automobile will ever
Instead of the auto more reasonable to say that the scarcity of horse has caused the temporary advent of the auto Farmers and horse-breeder in Canada, as well as in the United States, need not fear to produce more horses. If they are large, sound and serv-
iceable, they will aiways demand the highest prices. The horse industry is founded on a permanent basis, and has no reason to conflict with
the automobile industry in

The Sure Breeder for Profit
with mares failing to breed? It is a common complaint in all districts. The Live-stock Jour ". Annually there arises the complaint that mares fail to hreed. Mare owners and those who
have some stallions alike share the and loss resulting, and blame weather, work cach other for the unfortunate results. work and fact that on some farms some at times, but the larly, and almost as surely deliver strong foals
and raise them, is evidence enolph that able environment and imperfect care are not dishrood mares rigidly enough. Farmers do not select mares mares kept mainly for their work, and the
merely merely bred on the chance of producing a foal results will continue to be unsatisfactory. In
France, brood mares are worked as a matter economic necessity, but they are selected for
breeding capacit. Maros that are are sold Probably Mares that are not producers makes sure work of catching the counterf but it horsing their losses. The most profits and Faise colts and at the same time do that will
$\qquad$

## Shoeing the Colt.

The crisis in a colt's foot, says Harold Leeney, M. R. C. V. S., in the Live-stock Journal, is the first visit to the smithy. All the circumstances are usually unfavorable. The youngster has seldom been handled, perhaps never, if a filly, and, after much shouting and rough usage, is brought mith blows up the fire or ants beiore the that should have been many times so rit a foot that should have been many times so raised by deal without a painful recollection and a this orthe forge, which in a few instances never pass away. No subsequent kindness and gentlenes hit over the head with a of a colt that has been not knowing what was wanted of him. Some good-looking horses change hands for no other reason than that they cannot be shod without casting or trammelling in a travis, and this a ar least, have shoes removed or nailed be pla or three weeks. The first shoes should be plain stamped ones, and not thick, and no pordone so in order to taken away that is not would not try to economize shoes. If owners save much in horseflesh, which is they would iron. The colt should get accust is dearer than which does not extend one fractioned to a shoe crust, but slightly within it, and he will be the likely to brush or cut or trample off one shoe with the other. The first set should not be for business, but for education, and then the wear .in the smith how best to use him for break sole be real work. On no account should frog or sole be cut away. The health of the foot cannot the rim of iron we call a shoe, we lift if, 'by parts of the plantar surface out of action. If then, when his lesson has been learned, he should have the shoes removed, if he is to be turned out
again. The agricultural horse out his first set of shoes, as most breeders de mand some service from the two-year-old, which they hold is favorable to development, or they prescribe somethiug towards his maintenance if contribute pay his way; but the rule of removal of shoes and turning out again may well apply to light horses, whose tissues prove so much more capable The best hof-dressing is should be constantly taking up and parting with water, if it is to retain its tough as well as elastic qualities. Ointments, tar, oil or grease are not necessary oo keep healthy feet healthy, hoofs that have been poulticed and swabbed to Feet should grow during the entire life of the nimal. On low-lying pastures and in moist should not fear to shorten a toe because we have
seen or read of the evils of too much interference and of disastrous effects of cutting out the sole and bars and trimming away the frog, all of
which structures should take their proper place in bearing or sustaining the weight of the body, if they are to remain functionally active and take their part during the entire life of the horse.
The toe is thickest, and grows most, and all The toe is thickest, and grows most, and all
broken or turned-back crust on the foot of the un-
shood colt should he removed and the rasp used to form a round edge which will not break again

## Be Careful in Pupchasing Collars

 mare shoulders are a source of annoyance in transportation companies, liveries, and all places where horses are kept for heavy work. Nothing could be more painful to the horse than a constant drawing upon a raw surface in an ill-fitting or neglected collar, and nothing is surer to pull M. Oison, of Minnesota Agricultural College, in " ' If indifferent and careless drivers were com pelled to endure a fractional part of the suffering borne by horses with sore shoulders, it is certain that much better care would be taken of thehorses of the country. It is certain that a man
woull would pull few loads if he had a pair of sore re shoulders In nearly every instance the sore shoulders
fitted collar or hame, or, still worse to poor care of the collar, which may, fit the horse, to poor care
worn by the collar that is smooth and pliable, and bearing surface shape of the shoulder accurately. Over this collar the hame should be adjusted so as to propery locate the draft of the load. If, in addition, cared for, the chances of sore of the horse are in the to a minimum. Care should be observed in the use of sweat-pads. They should be used shrinks. In that case, another collar the neay neck
visahle. visahle. "a collar case, another collar may be adthe shape of the shoulder, and should be neither

Examining a Hopse for Soundness. Horse-breeders, buyers and dealers all recognize the importance of soundness in horses, and
also the importance of being able to detect unalso the importance of being able to detect un-
soundnesses, no matter what means have been taken to obscure them. It is necessary to follow some system in going over a horse, to ascertain
whether or not he is sound. whether or not he is sound. Experienced horse-
men follow a system almost unconsciously, but, to further bring this point before them, and for the benefit of those of our readers who may not have had much practice in selecting or judging horses, and who feel the lack of experience, or
who are desirous of becoming better judges, we who are desirous of becoming better judges, we
publish the following outline, by Professor


Pailton Sorais.
Shire mare; sold for 1,200 guineas. First and champion, Peterboro, Eng., 1912.


Beckingham Lady Grac
Champion Hackney mare, Royal Show, 1912 Charles Grofsswell M. R. C. V. S. L.,
of the San Francisco Veterinary College.
If possible, see If possible, see
the horse in the
stable before the stable before the chance " to warm In the stable look for evidence of '" crib-biting,', and wind - sucking
and ", night-kick and ", night-kick-
inc." Watch the
animal for signs of "weaving." Notice the character of the excreta, to
see if the grain is properly masticated, if there are any, worms or
bots, or for signs $\begin{aligned} & \text { bots, or for siggs } \\ & \text { of urinary sedi- } \\ & \text { ment, etc. Notice }\end{aligned}$ ment, etc. Notice
if there are any if there are any
extra appliances extra appliances
in use for hanin use for han-
dling the animal-
throat straps, or throat straps, or hobbles, etc.-Or,
if the animal for any reason is ander a 1 one,
staby from other
away way from examine the manger to see
if the food is all if the food is all
cleaned up, or if cleaned up, or

there are evidences there his eating the bedding. around the stable for proofs of Then have the | Then have the |
| :--- |
| horse bridled or | brought to the stable door

the hith
halter
on. Notice if there is any trouble during this atten-
tion.
Have the
 $\begin{array}{ll}\text { horse } & \text { brought } \\ \text { quietly } \\ \text { do to the }\end{array}$ no bustling or excitement. At the stable door, examine the eyes carefully, using the proper shadow over the eye. Look
or any diference or any difference both eyes; examne the cornea for nacity or cloudifors, and the len tice the contrac too large nor too small. The opening at the tion of the pupils to determine the effect of light neck should adinit the flat of the hand, and no other drugs. Listen to the heart. At this time more. The collar should fit the sides of the neck give the horse a drink of water, and watch the
without pinching. A new collar may be fitted process of drinking and swallowing. Have the without pinching. A new collar may be fitted the first time by soaking the face of it in water.
It should never be used generally on any other horse. "The draft of the tur should lie about one-third way up on the front of the collar, and, in every
case, the hames should fit the collar when buckled case, the The mane of the horse should not be permitted to work in under the collar, and accumulations of sweat on the collar should be re noved carefully each morning. In the case o
sore shoulders, the owner should always remember hat an cunce of prevention is worth a pound process of drinking and swallowing. Examine the nostrils of the stable into the open Examine the nostrils for color, character of dis-
charge, ulceration, abrasions, chancre and polypi. See that the orifice of the lachrymal duct is free-
ly open. Examine the outside y open. Examine the outside of the face for
nasal gleet. Examine the ears for warts or any nasal gleet. Examine the ears for warts or any
abnormal tenderness, and also for deafness. Examine the teeth and mouth, and smell the breath.
Determine the Determine the age, and make note of this, and colvr, and sex of the animal. Fxamine marks and color, and sex of the animal. Examine the glands
under the jaw and the glands in and around the hroat, especially the parotid gland

Examine the poll for poll evil. Examine the neck for any signs of a strap havfor evidense of having been bled. the if this evidence exists, at once associate it with any other evidence which th
or brain diseas
Shoulder-joint concussions for fistula, sweeny and shoulder-joint concussion, or chronic
ders from bad conformation

Proceed down the fore
any enlargement of the elbow and examine for denoting previous operation; the knees for en-
largement or evidence largement or evidence of having fallen; the can-
non bone for splints; the ligaments and tendons most carefully for any enlargements ; the fetlock for sprain or bursal enlargements; the coronet
for ringbone or sidebone for ringbone or sidebone; and then the foot for
corns, quittor, founder sandcrack corns, quittor, founder sandcrack, quarter-crack,
seedy-toe, canker, thrush, contracted feet naviculur canker, tisease. Compare the size and shape
nate of the feet, and notice if shoes are of equal wear.
Compare both fore limbs Compare both fore limbs carefully fo
tion, as well as for any enlargement.
Pass the haind over the back and loin
termine any irregularity in the bones spine, or for any signs of abnormal tenderness
the skin Then proceed to examine the hind quarters and
limbs. Compare both hipe passing tompare both hips, standing behind and
paser the hip joints.
Look out for dropping of the hip bone. Examine the tail
and notice if there is anything abnormal quently a shiver can be detected by al. Fre quently a shiver can
forcing the tail upward
Examine the anus for signs of worms; at the same time the genital organs.
Exarine next the stifle joints, and compare
one with the other. The hocks must then be very carefully inspected for capped hock, curb, spavins of all
kinds, thoroughpin, and for cracks or fissures of the skin in front of the joint
of ligaments or tendons, and the for enlargements bursal enlargenents and thickening due to old
sprain: the inside sprain ; the inside of the fetlock joints for what
is commonly called brusing amine the pan of the heel for fissures, cracks and sores, constituting ", serat tores." Examine the feet for quittor, founder, thrush, sandcrack, quar-ter-crack, seedy toe, and canker. Compare inside
of the hocks by standiny in tront tween the fore legs, and also by standing behind and by feeling with both hands on the off and tion, have the horse walked this general manipulaHon, have the horse walked and trotted on level,
sott and hard ground, and also, if possible uneven ground. Have this repeated until you are quite satisfied there is no lameness or imperfect turn him sharply around to the left back again to the right, in order to determine any aronic disease of spine or nervous system. dled or harnessed. depending upon the character of the herse loads, business for which he is intended. Examine under these conditions for action and lameness.
The next in order is to examine wind, by galloping or driving hard up hill putting the animal to orvawing ard heavy hill, or by
case of a young, unbroken horse, have him lunged case of a young, unbroken horse, have him lunged
by hand. Examine for whistling,
wind.
Before doring
or
or the animal to courh nnd make a pretense of strik ing the animal with a stick, in order to brine out
the characteristic grunt or roaring, or the wheeze of broken wind.
After the examination of the wind, have the
horse put back in the horse put back in the stable and remain perfectly
quiet for fifteen to thirty of the owner will allow youtes, that time. At any
rate atience let it be brought out acrain and trotted up and gether with other evidence, this will generally set-
tle the question lar disease, and it will aresence or not of navicu-
ness ness, in some cases of obscure bone spavin. It
will, at the same time test wit, of cures sof slight sprains. The permanency or
nete note of the
reneral health and condition general health and condition of the animal, and amination. If severe distress is noticed, coupled tions. look out for evidence of druwrein. Condi ly with strong alteratives, such as arsen especial- very
commonly used by unscrupulous dealers duce an artificial appearance of goord condition. appear in a vivid red, and sometimes a thlue wind alone the guns, and also at times by severe diar-
rhuoa, and atmormal thirst. The use of dicitalis. in order to hide the incinient symptoms ${ }_{\text {en }}$ (frok exertion, by an intermittent pulse. The use of
cocaine, cpium or morphine can be detected dur-
ing the examination by the abnormal, varying ing the examination hy the abnormal casionally by the breath after calloping. The determinations as to whether an ly the purnoses for which the must be governe by the purposes for which the animal is intends
to be used.

## LIVE STOCK.

The most important points in feeding whey to
calves are regularity, cleantiness tion in quantity.
calf which is being pail-fed, or even one which is getting whole milk from his dam, will portunity
Buttermilk has been found, by actual exper ment, to be less conducive to scours in cal, es
than is skim milk, and some English authorite recommend its use up to one part in ten in the feeding of whole milk to calves being rushed for
veal.

> Experiments carried on at Kilmarnock show
he value of whey to be two-thirds that of separated milk for bacon production, when used sepaIt gave much better results, however, when used
with meal, and corn meal was found to be the with meal, and corn meal was found to be the

the relative feeding. In relative val skim milk and whey for pig Scotland Agricultural College, Glaspow the tive values of separated milk and whey wer found to be approximately as $3: 2$. That is to
say, the skim milk was found worth fifty per cent: say, the skim milk was found w.
more than whey for pig-feeding.

To prove that young animals make the mos Station were carried on for some the Wisconsin results showed a shoat weighing about 50 pounds, using only gaining about a pound per day, to be using only 18 per cent. of his food for work in
the body (digestion, etc.), the remaining 82 cent. going as increase in body weight. A pel pound pig was found to require just 36 per cent
of his food to maintain his body, only 64 per cent. being left as bodily gain.

The exhibitor will do well to take success and advice which every live-stock showman some consider carefully, when it says: "Don't be tod happen to place the judge because he does not think they should be placed, for remember you periencel breeders and fanciers often disagree as to the reiative merit of two animals that are
nearly equal in quality two nearly equal in quality, yet a judge is expected The liakility of a dozen fanciers to differ as as to which is the better animal, is no excuse for the juige, should he make any mistake. He is exthe fact is theit he is human, the same as ather men, and may make mistakes. A judge must be of a philosophical turu of mind, in order to meet the many conditions and phases of character

## Value of Silage

## Silage keeps young stock thrifty and growing

It produces fat beef more cheaply than does dry feed. more economically
Silage is more conveniently handled than dry
fodder.
Waste of corn stalks is prevented, saving one When siiage is fed, the cortire crop.
Wtapl Feed the manure. be made palatable by the silo. on a large number of animals may be maintained It ellables the farmer to preserve food which In would he almost impossible. year, when dryfeod to the stock economical method of suring the hot, dry
summer, when the pasture is short sum to the stock during the hot, dry periods in
sumer, when the pasture is short. M Missouri
Farmers Bulletin

## Make Use of Fapm Roughage

## arghage is one of the most valuable assets

 the farm when it is properly utilized. The and value it at anything like sell much of it and so is often easily induced to is land in the future. A recent bulletin, ished by the Indiana Experiment Station, one of the greatest losses of the farm is due tothe lack of proper utilization of roughage incital to grain production.
There are produced upon the farm large yuant tities of rough feeds that do not bring, on the market, prices to justify the removal of such
quantities of plant food as of necessity accompanies the sale of such products. Therefore, one of the greatest problems to be solved in succescful farm management is the disposal of the roughage produced on the farm in such a way as to secure the feeding value, and at the same time conserve sible to therein contained. It is impo. large amounts of grain without aiso pro eminently the most satisfactory animals to consume lage parities of roughage, the solution of the roughage problem lies largely with this the roughage grown on the farm. Cattle-feeding is coming more and more to be considered as a means of marketing grain, conserving soil fertil means of marketing grain, conserving soil fertilduced on the farm, rather than a means of com-

The use and value of clover hay is pretty well recognized and understood, but the use andly value of the cornstalk is neither understood nor appre-
ciated. It has long been known that the contain a very large percentage of the food nutrients of the corn plant. When harvested to preserve the grain only, the stalks, either standng or as corn stover, while containing the food woody filre that they are not readily available or animals. The woody parts are not only unpalatable, but when eaten, require so much energy in digestion that a large part of their entire plant into the silo, the plant passes hard parts of the stalk sermentation that leaves the hard parts of the stalk soft and palatable, and winter by feeding the corn silage. When fed in the form of silage, the entire corn plant is conumed.
In the experiments at the Indiana Station, it cal and more profitable roughage than clover hay alone for fattening cattle. Addition of silage to clover hay decreased the consumption meal and corn in amounts closely approximating of shelled content of the silage in the ration. Addition grain silage to a ration of shelled corn, cottonseer meal and clover hay increased the rate and de equally well. Silage added to a ration of cattle corn, cottonseed meal and clover hay increased the profits per steer in amounts closely correThe substitution of corn gains with grain rations of corn silage for clover hay
did and cottonseed meal did not affect the rate of gain, but did meat reduce the cost of gain. Corn silage alone as a
roughage, with a grain ration of shelled Corn and roughage, with a grain ration of shelled 己orn and
cottonseed
meal, gave slightly less finish than clover hay alone as a roughage, but the cost of gains was enough less to return a much larg profit where silage was the only roughage fed. hay in the ration, the cheaper the gain, but the entire elimination of clover hay from the ration
was accompanied by slightly less finish on the
cattle
Under prevailing market conditions, the larger
the proportion of corn silage the proportion of corn silage in the roughage, in er were the gains. To induce sufficient cheap-
consumption to insure satisfactory necessary to limit the amount of silage fed durmy the latter part of the feeding period. Corn improvement in the condition of the cattle during clover hay alone as roughage. The consumption The results in general "indicate very strongly
that the more nearly the clover hay is replaced
hy corn silater cost of making gains, hut is the reduction in the of the feeding period, , the roughage me tatt be half
ited to such amounts that ited to such amounts the roughage must be lim-

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there will be a lack of finish
will partially or entirely overcome the attle that With these precautions,
substitution of silage in part for clover that the econom

## Benefits of Live Stock.

The benefits of growing live stock, according to a writer in "The Farmer's Advocate and Home
Jourual," Winnipeg, Man.. are (1) Furnishing food for
case of fowls, sheep, hogs, dairy cows and the food fed through animals kept on the farm, as bring larger returns than when the farm will keted directly, including food the same is marhorses, as well as to the classes of animals who rovide lood for man ; (3) aiding in destroyin weeds, as when sheep are numerously kept; and of returning to the soil in the manure the larger
portion of what was taken from it which grew upon it, and which was fed to five stock. Where live stock is judiciously maintained the farmer will grow all his meat product for the effect a very great saving in the maintenance cost cs when the man shows a short-sighted polthe meat that is wanted to meet the needs all paid for meat high prices that are now being paid for meat and dairy products make it sure
to the farmer, that, with the exception of wheat and flax, he will make more money from the foods grown by feeding them judiciously to live stock
than from selling them directly. products are virtually unsalable on the open thes ket. Such are straw and screenings, and yet their vaiue for feeding is very considerable. When sheep are maintained, the service which they
render in destroying weeds will more than in many instances, the cost of keeping them The value of the manure resulting as a factor in the production of grain cannot be easily over
estimated.

## Losses Duping Transportation.

 Cattle lose in weight on their way to theslaughter-house. This loss should be calculated as exactly as possible by the owner, so that on he may be able to ascertain the real worth his cattle
Messrs
Messrs. Herter and Wilsdrof asked the exhibit-
ors in the 35th Berlin Castle Show ors in the 35th Berlin Cattle Show to give them
the exact weights of the animals before they wer sent to Berlin. On their being arain weighed when they arrived, it was found that 25 calves full-grown animals 5.47 per cent. exact details were obtained.
The losses in great individual differences, and did not appear Differences of age and sex, of biological and physiological condition, perhaps also of food, were doubtless the other determining factors. The averace results showed the railwaymy. age, which caused 2.2 pounds loss in weight in each animal to be, in calves un to $4 \frac{1}{2}$ months of
age and weighing 3.33 cwts., 23.6 miles; bulls, 3 , age and weighing 3.33 cwts., 23.6 miles; bulls, $3_{4}$
years and upwards, 18.77 cwts., 3.47 ; cows 14.04; cwts., $3.85 ; \quad$ young bulls, 17.05 cwts.,
$3.10 ;$ young cows, 12.56 cwts., $5.40 ;$ steers $3 \frac{1}{2}$
years and upwards, 15.69 cwts., $4.28 ;$ heifers and steers under $3 \frac{1}{2}$ years of are, 11.68 cwts.
6.46 cind steers from $2 \frac{1}{3}$ to $3 \frac{1}{2}$ years of 13.42 cwts., 3 . ${ }^{\text {a }}$. $4 \frac{1}{2}$ to $3 \frac{1}{2}$ years of ag

## To Prevent Cattle Jumping.

To prevent a cattle beast from jumping, sim-
ply take old worn-out shoes off small horses, cut the heels off at the fourth nail-hole, and beat the cou's front feet. The Take small No. 7 or No
6 horse nails lengrthe nails, cut off the points to proper
dint again with a file. Dip in some grease, so they will drive easily, as a cow's
hoof is very hard, and nail on the shoes, thus then on the cloven toes together, and you hav
miust must spread to spring enough to jump. I I cure
one early this spring, and put them on another heifer recently, By Being careful to get the nails
well to the outside of the foot and well turned
out in drivere is no danger of pricking. Be carefil
is easy to recret. After it is once done. is easy to repeat , After it is once done, it
Leends Co CHURCH.

THE FARMER'S ADVOGATE

## THE FARM

## Points in Growing Winter Wheat

 In a bulletin on winter wheat production, by Henry G. Bell, Agronomist of Ohio state, thefollowing three ineans of increasing the vield this crop, and meeting the needs of a yield of increasing population are brought out, viz. The farmer must cultivate no more land than he The till thoroughly; there must be rotation of crops practiced, and there must be soil renovation by soil and the plant food conditions condition of the benefited by a judicious use of can be greatly green manures. However these sources of fertility must be suplemented with complete fertilizers supplied in insutticient quantity by manure are to give the tiny wheat plant a vigorous start Probably no cereal crop grown on the farm will show better results from fertilizers than will
Wheat does best in a medium to heavy loam necessary that the soil should be worked fairly
deeply. deeply. The soil should contain considerable moisture to mature the crop. This sufficient matter, too, will modify the texture of the soil so that the air will circulate within the rootto plow as soon as the preceding it is desirable off so that moisture will not be wasted is taken oration. If there is considerable growth of green crop turned under, it is desirable to roll and disk and assist in the plowing, so as to compact it turned under. It is also good practice to drag mulch of the surface of the ground so that a tained on the surface. This will may be mainration of soil moisture. If a legume crop such as clover, cow-peas, eans, etc., has preceded the spring grown crop, the ground will be supplied crup should have been early oats, barley, or othe grain crops, considerable of this plant food will have been used up. This must be put back in order to get best results. Where it is difficult in
late summer to obtain barnyard rich the wheat field, the farmer, to meet this
need, should use a complote fortilize need, should use a complete fertilizer.
A point of great importance in the wheat growing is the quality of seed. Finery farmer
will do well to pary a reat deal the quality of the seed which he uses. He can obtain seed of a superior quality by fanning and
grading his wheat grading his wheat. The large starchy berries
are not best to use for seed, since continu of such seeds tends to soften the general quality of the variety. A large, plump, sound berry has given exceedingly better yields when compared
with small, plump, shriveled long series of tests. A large amount of the success or failure of the crop of wheat depends upon the suitability of the soil, the preparation
of the seed bed and the quality of the seed. The question of how hest to get the wheat seed into the soil has engaged the attention of
a great many experts. When the land is por pared, it is the practice among many large wheat growers to sow the wheat with a drill. Various
advantages are claimed for machine, but the general advantage in the of this drill for this purpose is that the tiny seeds of all in all, it seems that the first direct profit


A Herd of Red Poll Cattl
wheat are sown at an even depth and are care flly covered in the process of drilling. During ternate thawing and freezing, it has been of aled that drilled wheat shows a greater percentage survival than broadcasted wheat. The reason sufficiently deep in the soil of the plant is buried sumciently deep in the soil so that it has proWhere the wheat was sown sufficiently early, the iny rootlets have gotten firm hold on the seedunevenly sown broadcasted wheat.
Special care should be exercised in sowing that the food store of this little kernel will be exhausted before the leaf shoot reaches the surface it will die of starvation and suffocation. Dealing with the needs of fertilizing the soil should last say that the food supply of the plant. The roots take up the whole life of gen, phosphoric acid, potash, lime, etc., carrying these to the growing leaves, where, under the action of sunlight, the food is manufactured into plant-cell material and carried to the centers of
plant growth. From the very from growing shoot has fed upon the available nitrogenous food in the soil. As stalk-growth be-
comes more rapid comes more rapid, considerable potash is made
use of. In a short time, stalk-growh maximum, and the plant has to provide for its reproduction. Late in June or pearly in Jor its, tiny flowers open and become fertile, and the new wheat berries begin to develop. The time be-
tween the flowers becoming fertile and the complete filling of the kernels is very short-ne comten days or two weeks in many cases. The kernel contains almost 90 per cent. of the phosphorie kernel this element of plant food the filling of the portant part. It is easily seen that the amount
of of phosphoric acid available for plant food with crop of wheat. The ground the quality of the good physical condition, the seed mave been in of excellent quality, the season may have been acid at this time, the is a scarcity of phosphoric filled, but its quality is inferior not only poorly The effect of suitable fertilizer when used in sufficient quantities, is threefold wheat the yield as well as suitable fertilizers increases also increases the amounts of the valuableat. It third of the wheat, viz., starch and gluten. The fluence it has upon the upon wheat is the inThe increased vigor and activity growing cells of the wheat plant, by virtue the when it abunt supply of available plant food, just when it is needed, produces not only much larger making quality. but grain It is just as upply of food available fore an adequate it is to have plenty of food at hand in order to
crow a drove fertilizer must also be added the profitable use of to the land from the residual fertilizer, left behind y the wheat crop, and benefiting future crops. Fertilizing the wheat crop is quite generally croper and of causing it to grow into a good crop. The increased crod of clover, of course,
from wheat fertilization may be but a smaller supor the typical wheat soil, which, is well tilth, an application of 200 to 400 pounds of fertilizer carrying a fair amount of nitrogen, a liberal supply of available phosphoric acid, and a medium supply of potash, has been found ver
beneficial. Such a fertilizer would analyz $2 \%$ to $3 \%$ ammonia, $8 \%$ to $10 \%$ phosphoric acid

## Care of Farm Machinery.

 that it must be well selected, kept in good means and adjustment, oiled thoroughly, cleaned before greased when not in use, and painted when neces sary, and it must be properly housed. At least one-half of " good care "' consists in keeping the and thoroughly oiled when in use. To neglect any of the lines of care mentioned, means serious damage and loss to the machine. If these statebright in a Colorado bulletin after extensive investigation into the matter in that state, be true, it is surely evident that only a very small percentage of farmers, in every county, properlyThe fact that such a large percentage of the ma-
chinery is allowed to stand in the open is partly, but not wholly, explained by the marked scarcity large number of cases the housing consists of "going through the motions" rather than actually preparing the machinery for storage and then proverly storing it in a suitable shelter
it should be cleaned and thoroughly oiled at the end of the season. With such machinery as the binder or mower, it is a good plan to thoroughly
oil all bearings and wearing parts just before finishing the season. After removing all dirt wipe the entire hachinery with an oiled rag or
waste. The wearing parts especially should he waste. The wearing parts especially should be
well greased with tedlow or axle grease. If the well greased with thllow or axle grease. If the
entire machine is to be housed these wearing parts do not need to be removed from the ma-
chine, but they should be removed and stored in a dry place under all other conditions.
much good as is commonly supposed. Machiner may be just as well cared for if it is allowed to stand in the shade of a tree, as if it is stored in some of the leaky sheds, open sheds, poorly
drained sheds, or combined machine sheds and hen roosts, such as may he found in the country.
There is no question but that to properly houss a gre not only add adds to the general appearance of the farm. It is generally found that where a farmer is interest ed enough in his machine to properly house it, he otherwise.
ments, which have been removed and attach should be placed where there is no chance for them a gunny sack and suspeng them from the rafters
of the shed or barn. time of storing the machinery it should be placed in the shed according to the time it will have to be removed. The machinery that will be used in the back part of the shed and thould be placed in used early in the season should be placed in front. In this way, it will not be necessary to remove
a great deal of machinery in order to get what is needed first.
There is no question but that it pays to keep
he farm machinery thoroughly painted. This is especially true with such machinery as is largely nd cracks, prevents checking. prolis all pores of the machine, and also adds very much to its appearance. Two or three dollars worth of good
reliable ready-mixed paint for outside use, or ound on the average sized formo the machinery times the cost of the paint to the value of the machinery.
onstruct a special building for advisable to
machinery. Often a very good place can be mad.
in the barn or other buildings.
By taking some of the parts off certain machines they can be space.
The characteristics of a good implement
are (1) It nust be thoroughly drained ss mplements do not stand in a wet place. (3) It must not be too expensive. (4) It should be located in a convenient place and so arranged
as to be easily used.

Cement for Stpeet Prying

## rnerican Portland Cement Manufacturers

 1y held in Chicago, a number of papers were reat by leading highway engineers throughout the United States, including Logan Waller Page, Diture, Washington, D. C.; Edward N. Hines, Road Commissioner, Wayne Co., Mich., which county has probably built more concrete roads than any ther in the world, and finds them cheapest and Engineer, Fond du Lac, Wisconsin, and others After making various comparisons between different road metals, Mr. Page concluded his remarks the Portland cement concrete road is fars that able to nueet that changing traffic conditions than either of the other surfaces, plain macadam Portland cement concrete, From our knowledge surface of this material to meet practically road requirements.ject of "Ontario Highways, Report, under the subing : "Attention has recently been drawn tow concrete paveinents which have been treated with a surface painting of tar, over which a thin layer rated and held by the tar. In appearance saturated and held by the tar. In appearance, thes sand coating overcoming the glare and reflection of heat. The tar and sand fills the expansion face. The expansion joints disappear from view and do not chip at the corners. The tar and sand coating deadens the noise of traffic, makes appear, they are painted with tar and sand so that they do not crumble under traffic. The treatment, in short, overcomes the more objectionable feature of the concrete pavement. Con-
crete pavements, as heretofore laid in have cost about $\$ 1.15$ a square yard. The tar yard, and has cost about two cents a square annum. If further experience square yard, per of this treatment, it should be useful for thess businers towns and villages in paving their main tive for main highwous radiating from large in Ane type of pavement just described originated in Ann Arbor, Mich. For the past two years it
has been subjected to all classes of traffic, and

## The Hessian Fly and How to Save

 Winter Wheat from Its Attack.$\qquad$ hat the Hessian Fly has been attacking thei noticed numerous broken-down straws in have fields when cutting the grain, but have attributed felds this year 50 per cent of the one. In some destroyed by this the worst insect enemy has been Some of those who have suffered severely the last few years are thinking of dropping winter wheat to be a menace. The life-history of fly ceases and the best means of control, will, therefore of interest to fariners.
Life-History.-The adult fly resembles closel. a mosquito, but is a little fly resembles closely
It is seldom noticed in this darker. other stages, viz., egg, maggot, and pupa or flax the insect is At the date of writing, August 9 th the insect is in the pupal stage in the whea
fields. These puper look very like flaxseeds. are to be found in the wheat stems near the
ground. Remove the blade from the stem just ahove the first or second joint from the ground times as many as twenty are clustered together on a single, hadly-attacked stem. In a few
weeks these pupre will change into the black weeks these pupre will change into the black
mosquito-like adult: in fact dose so in my rearing cages. These flies live a
dene
few days and lay their that spring up in stubble fields or in early-sown fields. Soon little legless maggots hatch from crown, frequently doing much damage and causme the wheat fields to look a sickly-yellow caus
late in full. Before winter, most of the magrot
are full stake Mown and have changed to the flaxseed
spring, about June, these trans Gus on. the lower wheat leaves, and the magrots Insi... swomd ioint het ween the leaf and the ins.
sup,
some is unam. "mont is so hadly attacked that it

Means of Control.-The best means of contro is to prepare the seed-bed with extra care, select good large, plump, unsprouted seed (sma) not to sow any wheat before the 5 th mill), an ber. In the warmer parts of the Provincepten bed is in proper condition sbould grow rapidly and produce date-sown grain plants before winter. The bette good vigorou less injury it is likely to receive from the fly flies have laid late sowing is to wait until the the new crop appears above ground. died before down or burning over wheat stubble as soon as hand, running a cultivator or disk oner the field to lay their eggs on these plants induce the flies ing them all down in September to destroy the egys or maggots; or sowing a strip or two the theat in August in the field intended for wheat to lay eggs in, and then plowing it under just
before seading the whole fies methods of control wherever they can be applied Late sowing is likely are those first mentioned. year, because the showers we are getting in ust will hasten the appearance of the flies more than dry weather would, and, therefore, they are ikely to lay their eggs considerably earlier.
Several kinds of parasites are maggots and pupæ of the Hessian fly. Some have
already emerged in already emerged in my rearing cages, but it is control to depend upon them to keep it under Guelph.

## Glimpses of a Highland Fapm

 would not be complete without seein theotland arm and farmer at close range. You perhap hink that a farmer such as we meet in Canada and industrious, is unknown in Scotiand prossive generally associate with Scotland the for we landiord and peasant. However, the one I am It was my privilownerHighlands, to visit ore theough the like so many in Scotland, this one was owned by a man who started in very humble circumstances years purchased the estate on which within recen living. After receiving a most cordial welcome by the
owner, who, by the way, was a distant relative we were taken to see the many buildings massed
together on the estate to the dairy department, for cheesemaking was a very important industry carried on there. Thirtyby, provided the milk which was in a field nearlarge vat in one of the rooms. At one side of
the receptacle is a large strainer, through which he milk was poured, and taps were found on it
from which the milk was allowed necessary. It contained thirty gallons of milk,
but before the process of transformation begin, the next day's milk would be emptied into
the vat. From this anartment another, where presses and curds we proceeded to The curds would be used in making the next doy. cheese. There were two churns before us, and a was done. The many rolls how the churning ranged on shelves, showed that butter, neatly arnext, and it would take a The cheese-room came those white cheeses arrayed on their to count all
were tolves. We that sevent previous week. It takes about three monthy the cure them, and they have to be turned every day,
the process taking one of the maids one-half hour ach morning.
Dairying was not by any means the exclusive industry on this farm, for we were next con-
ducted to the piggery. Here were some fine white porkers resting themselves. So some fine white
were they that I thoughtlessly white clea hard a bath every morning. "No," was they morning,", Pipes could be seen carrying the
med rooms. Sury into the troughs from the dairy
knew has a shrewd farmer, who
$\qquad$ o claim our attention, and there the clean stone troke the throuchness of the stone partitions be
for the horses were of the stables rom them we were led the the granary, where wa bere shown the chutes that carry the grain to the

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paraftin oil. Near-by were the sheds, where t the "traps," were housed. The poultry house at some distance, was another addition to the interesting group of buildings.
again, about to retrace our steps to his were out We looked ahout, and there were many hills which were fit for grazing, and also small stretches of grown. They believe, in Scotland, in intensive ralher than extensive farming. Weeds grow but they quickly become an unknown quantity for a close warning now to his home, evidences of them. ment and culture were everywhere present in the beautiful but home-1ike furnishings, the music
room and library. Besides his wife and daughter there are three maids, and three men employe household After partaking of a meal in his home turned by the picturesque low road to a Huch, we re turned by the picturesque low road to a Highland
village.
MARION BELI

## Sulphur as a Soil Fumigant.

 It is strange that it should have been reserved ing effect of applications of sulphur. Experiment carried out in France, and confirmed in Germany orove that small dressings of flowers of sulphur greatly increased the yields of several crops. Theincrease was greater than that derived from complete mixture of artificial manures, but great est of all when both applications were made. In vestigations indicate that it is, as a soil fumi is beneficial, the cause of the benefit, apparently being the destruction of soil organisms injurious to plants. It will be easy to test the benefit of sulphur for various crops on a small scale, by
applying it to the soil two or three days hefore sowing at the rate of 90 to 100 pounds per acre Soil fumigants, as a rule, should not be applied to growing crops, though sulphur may possibly be

## Carleton Co. Crops.

Hay has been a good crop, and oats promise are in excellent growth, and cattle are doing well, both pail and beef. The shortage on the high early in the fall. produce numerous sales of stock
VIRGIL McKENNA.

## THE DAIRY.

## Holsteins Losing Constitution.

That the constitution of Canadian Holstein cattle is degenerating, in the cheese factory
sections at least, is the opinion of Thos shaw, of Tweespruit, Orange River Colony, South Africa, who has been in Canada lately, selecting a shipment of live stock for South Africa. HavBradshaw has a warm regard for Canada, and insisted upon trying a shipment from the Dominor, notwithstanding the prejudice against Cana-
dian stock arising from an inferior consignment dorwarded to that country on a previous occasion. Mr. Bradshaw reports that Canadian and Australian cattle do better in South Africa than
European importations, and Holsteins are the Curopean importations, and Holsteins are the predilection but because they do better there than other breeds, such as Ayrshires for instance. Why
this is so he cannot explain, but that his opinion in the me cannot explain, but that his opin at the Pan-America lairy test in Buffalo Africa the beef cattle are raised in South Africa, the best roasts being from old work oxen
stall fed milkless cows are not wanted in South Africa. Only the deep-milking strains of Short horns would have any chance of popularity. Reverting, however, to the subject of Canadia
Holsteins, Mr Bradshaw while pleased with his purchases in the Brockville section, and elsewhere was disappointed at the comparatively small pro portion of the breed which he found up to the
mark. Too many weedy individuals lacking in mark. Too many weedy individuals lacking in
constitution, were seen, and the effiect of the cheese-factory system was especially evident in the young stock. He is, too, of opinion that there should be an inspection of stock to qualify or registration. Broken colors and grey hal
through the black spots are too prevalent. Fewe registrations, a little more care as to colo
markincs markings and constitution, and better develop ment of the young stock are some of Mr. Brad-
shaw,
the ideas about maintaining and advancing


A Bunch of Manitoba Pigs.

## Good Milk.

What is good milk? Probably the ordinary
consumer thinks at sume may even like half milk and half in fat when they call for a glass of "good" milk. The clean important point by far is that the milk be by a healthy cow kept by a healthy cow kept in sanitary surroundings produce such milk is the goal towards which the energies of our cleverest men, our foremost of dairy farmers are striving with the utmost endeavour. It may interest consumers to know a trifle officers in various districts exercise a migid thealth spection of stables and dairy cows ; and, collect ing samples of milk, by a simple method they ount the number of bacteria found in the volume Then the careful milk producer, the man who has clean, healthy cows, stables free from dust pure water supply and wholesome feed, milk kept reaps a double benefit. He is paid two premiums If his milk is up to a certain standard of fat, he gets standard price, if it is not rich enough to conform to that stancara, the price is lower; the richer the milk, the more he is paid. But,
further, if his milk runs at a certain number of bacteria per c.c. he gets standard price; if the number is lower, he gets a higher price. Thus, everyone is better of, the producer gets paid a dairy company has the satisfaction of purveying a very superior article of diet and the consumer receives the best milk that can be produced, clean It is worth a good price Macteria may be said to be fairly good if the dairy companies having paid special attention to clean milk, have succeeded in securing a regular supply that will average below 20,000 per c. c.
This is good milk. But some dairy farmers are doing much better than this. One company pays a premium of one cent per gallon for milk con-
taining 10,000 bacteria or less per c.c. ; the sliding scale increasing as the milk is better in about this proportion, a premium of two cents per gallon for 5,000 hacteria per c.c. or less, and Where the results of the laboratory count
bacteria are posted on the bulletin board for all
milk producers to see, it has followed that test is revolutionizing the sanitary methods of production. Flence, in some sections, are to be ound a few excellent dairymen who regularly furnish milk containing less than ten thousand bacteria per cubic centimeter. This is certainly
"good" milk.

Pooling vs. Babcock.
The use of the Babcock test in the breeding of airy cows is everywhere accepted as invaluable, of the jmen every where are pronting by it., Some thers are low. There producers of fat, while dividuals in each breed. Thare may bo the in tion of from three to six per cent. butter-fat in nine-teuthsery. Is it not surprising that about the same for 3 -per-cent. as for 6 -per-cent paying The Holstein cow usually gives a large puantity of milk, but often low in fat. The Holstein cow very popular in cheese-factory districts. This may help to keep the unjust pooling system alive. all other breeders, make butter-fat the well as of merit, and are, by skilled breeding and feeding. getting not only individuals, but herds of breeds, test directs all dairy of butter-fat. The Babcock dams can be secured. Prof. Dean has been and still is a great aid to the pooling system, by insisting that a fat test is valueless, unless you measure the other solids. The test for other solids is not needod, as it has been shown at
Guelph and other stations that the amount of cheese in milk was governed by the amount of fat, so closely, that a very little added for better quality would have equalized it. In an address, thought that, when she had a lot of creame', she had rich milk, but the other solids were more that lots of fat did not indicate a large quantity of the other solids. The Scotch letter in "The Farmer's Advocate," page 1286, speaking of the
Babcock, says: "' This is undoubtedly Babcock, says: "This, is undoubtedly one of out it, it is scarcely conceivable that the factory system could be carried on. Those who do not appreciate the work of Dr. Babcock do not under-


Winning Holstein Her

THE FARMER＇S ADVOCATE．
test means．＂It is a pity that the Professor
would not help，instead of hinder，the of the tegt．That yearly grist of fines that cast a cloud of sorrow and shame over the district Will continue until the test is adopted．The that only ten per cent．of the factories had adopted the test．How would it fo for the had structors to secure samples of every patron＇s
milk ？Give each one in his month＇s statement what he gets by pooling，and what he would get by test．Keep this statement in the choese fac－ tory，so that each patron may learn whether he
is robbing his neighbor，or his neighber is robbing his neighbor，or his neighbor robbing him．If it is thought that this might create too tory，this stare，and injure the state of the fac－ the agricultural press，without name of factory or patron．It would at least be interesting and Midructive reading．
Midesex Co．，Ont．

## Summer Feeding of Dairy Cows

fronted with the most trying the farmer is con fronted with the most trying time to keep the
herd of dairy cows in respectable condition，and at the same time keep up the supply of milk，is that period when the grass begins to turn brown period each farmer must face，under normal con ditions every year，and the best means of supply－ ing the palatable substitute for grass is a much－
discussed question． To the man with
use，the problem is an easy one．Cows on grass never lose their appetite for a feed of grass， either before going out in the morning or on com－
ing in at evening．If the ensilage has been made ing in at evening．If the ensilage has been made
from corn that has been cut in the last stage of maturity，the question of its keeping is lare oly
solved．This year we are still feeding silage that is of last year we are still feeding silage
not been injured in the slighd the quality has period in a cement silo．We find that the herd of milking cows will relish a feed twice a day， If enough sion boconing shoct
lengthy period of summer feeding，there should a at least enough to feed the herd until other green crops are mature and ready for feeding in the rye is about the first to useps for early feeding， gives a bulk of green，palatable food，and crop that slightly thicker than usual，it will lack coarseness stem．
use，and especially the clovers will be ready for the early maturing of the first cut，makes it worthy of a high place．On soil that＇is of deep， porous nature，this valuable crop should be given
a fair trial．The Grimm variety rate of 20 pounds per acre，with a nurse crop of
one bushel of barley of the best possible feed after one year＇s growth turing，it is adaptable to feeding the efts of pas in the stable，while the cows are on pasture cut Mixtures of grain have been tried，and giv
satisfactory results．One of the pose is a mixture of oats and peas，Early Goth
land oats and Prussian land oats and Prussian Blue peas，mixed in the proportions of two of oats to one of peas，and sown at the rate of three bushels per acre．This
mixture may be sown as early in the mixture may be sown as early in the spring as
the soil can be worked，and will be fit for use around haying time，when the first signs of dry pastures usually occur．The best method is to
sow the grain in plots ten days apart in the seeding，and enough area to feed the herd over be enough for a week＇s feed．This will give a
continuous supply of feed that is not over－ripe，
and forms one of the best combinations being
used for the purpose To follow the grain
for use，and a small field should be set apart for fall feeding．For aeneral use，Improved Leaming
and Compton＇s Early form two of the best vari－ The usual question in the mind of the general eeder concerns how far the feeding of green crops
in the stable can be carried with success，when compared with continual pasturing，which implies To make a just comparison，by taking one acre
of pasture and one acre of different crops，the fol－ lowing results would be had：
months ；one acre will feed feed one cow for 10 cows for 18 davs 20 acres will feed 20 cows for 6 months．
Feeding Mature Green Crops ：Clover－s sq ．rd． will feed 1 cow for 1 day；one acre will feed
1 cow for 213 days； 1 acre will feed 10 cows for 42 days； 9 acres will feed 20 cows for 6

[^0]day； 1 acre will feed 1 cow for 320 days； will feed 1 rd．will feed 1 cow for 1 day； 1 ac 10 cows for 2 months ； 2 acres will feed 20 fee Though this comparison will vary according to the season，it will still hold good that one acre of green crop is worth from three to five acres
of pasture．The problem of labor is the one that many farmers find the most difficult to over of land is so with this disadvantage，the saving to have green food of some sort to is economy the pasture．
The proble
for the fall pasturing sowing crops on stubble land of mention．Such a dairy cows is one worthy of green feed that often helps to keep up the milk
flow，but flow，but if all is compared with the system of
growing crops and feeding in the stable before largely in the Macdonald College，Que．

Alfalfa and Silage for the Cow Friesian Association of Canada，and now a resi－ dent of Mlinois State，writes that，from investi was cheaper to keep the has been found that it ear around．At the Illinois College，he states 5 cows are kept on silage and alfalfa the entire are kept at a saving，and do exceeding well．The cows flies．Mammoth Sweet corn he considers the best than they do other varieties．Mr．Herrick cleaner strong advocate of silage，summer．as wellick is
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## POULTRY．

## Cape of the Chickens．

Editor＂The Farmer＇s Advocate＂：
quarters at a distancels be removed to ne distinguishable．By this time they will be sex is ing in the brooder or brooder－houses．Both pul ets and cockerels will grow faster as a result of the separation，because each will have，or should have，twice as much room as before．The fight if they are removed from quarrel some，and early age，this materially increases their at an and ability to fatten．The sooner the early pound and a quarter a sold after they weigh a pound and a quarter a piece，the better it will be
for the owner．This is particularly true if
chic chickens are of the I．eghorn type．Later－hatched chickens of the Plymouth Rock，Wyandotte
Brahma or other to a larger size with profits can often be grown The chicken which weighs from two roasters． pounds，can be very much improved in to three of flesh，in plumpness of body，and in general qrowth that by special finishing．The cheapest fat that is put into their bodies after the is the is preferred in the United developerd．Yellow flesh is preferred in the United States，therefore yellow
corn always should be used in fles fattening ration is as follows ：
Four parts（by weinht）A good whour parts（by weight）cornmeal，two parts one part beef scraps．part heavy ground pats，
daily，mixed with liquid．mixed with skimmed milk into a thick to eat．After thirty minutes，the food remaining
should be removed．Chickens which weigh two
to three pounds should gain approximately a three pounds should gain approximately half
a pound each，per week，for the first two or three
weeks．It is usually，not chickens longer than this．
If the pullets show combs，a tendency to lay，it will be necessary to
retard their production they should be separated from order to do the younger pullets，
and should be keot stimulating ration． A prolific source of loss in rearing chickens
comes from the crowding，and smothering intimidating of the weaker and smothering，and cording to age is not sufficient．Separating ac－
chickens are found that are stronsently， at three weeks of age than stronger and larger
weeks old which are siz weeks old．These undersized chicks which are six the others．Fear not only presents the more
timid from getting their share of food，hut the
food they eat cannot be satisfactoril． and assimilated．The onger therily are digested
and iostled，the greater the contrast in size and
strength becomes．Tt is surprisine to sel
fock of underlings will pick up and thrive when Each hatch should be temporary yards separated from chickens of other
ages． A wire fence one and a half feet high，will be to return to their own brooder． early hatched chicks we cover the For the very heavy muslin，which shuts out the wind and makes the place a warm，sheltered spot，where
the chickens can run in for comfort wind blows outside．After two weeks the a cold
can the removed can be removed，and the chicks will return fence their own brooder with great regularity．When taining chicks of the same are colony－houses con－ he placed closer that fifty to a hundred feet apart At this distance the chicks will invariably return
to their own quarters to their own quarters．They will，however，flock
together when being fed，and on this accult together when being fed，and on this account it
is desirable that there should not be more the
five five hundred chickens in a single run．more than There are many ways of losing chickens．In
nearly every case the losses are due to Good care and proper attention at the right tim will eliminate most of the losses．Open post
holes，uncovered swill－pails，and water－pails，loose rolls of poultry wire into which the chickens curtain by which they are hung in the brooder rats and foxes，all have to be reckoned hawks， Many of these causes of loss can be anticipated and avoided；it is small satisfaction to apply the A little thoughtfulness abouve been destroyed curtains，instead of cloth，for open pitfals，feit
steel trader curtains anise． rats and foxes，will help to decrease the mortality among chickens． diseases，gapes，＂like most other poultry parasitic The parasitic worm which prevented than cured． are kept on board floors for a few weeks whickens oung；or，what is better，if they are reared wh entirely new ground each year，and not allowed y stood，little，if any，trouble will be ceous－ by the gapes．
The loss in growth and vigor caused by and mice，is very great．Many a flock of chickens of parasites that sap their vitality reat mortality．A good，natural or prepared sect powder should be provided．Grease or in－ ens which are infested，and to all young chick－ have been hatched or brooded under hens that liquid lice－killers whernal parasites．Some of the appear to be effective in painted on the perches， mites，which apparently cause body lice．The plication lice，can be destroyed by frequent loss troleum to the perches of kerosene，or crude pe－ petroleum，mixed，are also very．Whitewash and crack and crevice must be covered，ortive．Every roost in a very short tiply and replenish ，＂the the doors are arection with a lantern，to see that been locked out，that the lamp flame is have（1） that the chickens migh，that the gates are shut snug and comfortable for the night，is the most
valuable time valuable time spent in the night，is the most perhaps the time just hefore a heavy storm，except

Eggo－production of Three－year－old Hens．
production？To answer this question，for egg－ 60 White
Leghorn pullets that had made
irst hirst year were selected from a flock of 240 ，and complete returns are wiven for three years，the
most important data being as follows． $\begin{array}{llll}\text { Eggs laid } & \text { 1st Yr．} & \text { 2nd Yr．} & \text { 3rd Yr．} \\ \text { Average }\end{array}$ $\begin{array}{lllll}\text { Total profits nen ……．} & 171 & 149 & 115 \\ \text { Profit per hen } & \$ 124.16 & \$ 96.31 & \$ 53.89\end{array}$ Of the 60 fowls， 83.3 per cent．laid the maxi－ per cent．gave the greatest production the second
vear．Though the fowls mate year，it did not compare favorably with that of
the other two vears the other two vears，and was too small to justify of mammended that farmers adopt some method

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have things figured out so that I shall not have
more than one important thing to do at a timie more than one important thing to
and then I can perhaps do better
 birds to be bringing out their young. They will
hardly be strong enough for the fall flight.

Have you had a feed of "musheroons"' th
ear? I know the proper name is "mushr but we called them ""musheroons", "mhen I was " youngster and the pronunciation still prevails in many parts of the country. Moreover, I find no one is to be blamed very much if they use it Anyway, they have been quite plentiful in the pastures since the wet weather set in, and we
have had some glorious feeds. So far I have have had some glorious feeds. So far I have
confined myself to the old-fashioned pink variety, though many others are to be found. Although I am convinced that I have fount true specimens
of the Fairy Ring and oyster mushroom, as described in books and articles, I am not going to
venture to try them untel I see them someone who is familiar with them. with much fear and trembling, I tried the inky hushrooms, and found them good, but not so good as the ordinary field kind. Those who ed pink ones are still the best of all, and while they are plentiful I shall take no chances with strangers, however tempting they may look. One
cannot be too careful whn cannot be too careful when the poisonous kinds
are so very poisonous. I do want to try balls if I can only find some of the good buff-
ones that I used to kick to piecos when ones that I used to kick to pieces when a boy.
I am assured that none of the puff-balls are poisonous, and that some of them are every bit as ones last year, but did not care for them. And
that reminds me that I didn't look in the pas ture morning to see if any mushrooms came up last night
have time to

## Saving Tomato Seed.

Farmers need not be dependent upon purchased
tomato seed for the home
 discriminate quanturacter seed, but seed of this in-
tion. should newer be entirely without selection, should never be used or placed on the mar-
ket. Reputable seedsmen have breeding plots in
which which varieties areasmen produced anded ing plots in in
selection. or get supplies from exper by under contract. Fxcellent seed of many varieties reasonably true to type, can thus be obtained, but
there is an increasink tendency amionk skilled
 selected seed should be best. 13ut to not trust
to use the seed from the odds and cnuls leit on
the vince usuallys sought anter is on tomatoes characteristice because they
are prized as a treat for the table, and if then be surplus, they are worth more than the lat
fruit that goes on a glutted market. Do in.
chooce
 mitted to your crop next season. Chose spect
mens of goor size, smooth, free from black entl many town families now there is a call for
fancy dessert tomato of smallish size, that canl
fruit is liked best. If earliness is desired, choose from a plant that has the most early specimens
The plant, as a whole is to be considered. It should be of good healthy stock and foliage, with the latter not so rank as to retard ripening. It
should be a prolific bearer, producing a large number of good specimens. Of these, select a few of the best, and let them ripen on the vines, sun will thoroughly finish the maturing. Then wash or press out the seed from the pulp, and
spread out clean and thin on a cloth in the spread out clean and thin on a cloth in the
sun to thoroughly dry. Next, sort them out in packets, such as a cheap envelope, named, and keep in a dry place till ready for sowing in the If practicable
done well in your own to the variety that has ways to be on the alert for something better to try on a small scale. But, for your main crop, going suggestions from your own to the forewell to have at least two kinds in the garden, one a little later than the other, so that table or canning supplies will be spread over a longer
season. Intelligent selection and careful
Ind in growing constitute a reasonably sure pathway to improvement in tomato culture. Growing plants from your own seed adds greatly to the

## Peach Gpowing and Diseases.

## A new bulletin on peach-growing and peach di

 B. S. A. has Clement, B.S.A., and L. Caesar, B.A. partment of Agriculture. This is one of the bes works pertaining to the peach and its culture ceive the attention this country and should re kind of fruit. Ontario has within its area 90 1911 census crediting this Province, with 1.681 850 out of a total of $1,884,459$ trees, an in The soil and climate in many census of 1901 . cellently adapted to peaches localities is ex ing should increase and prove a very important factor commercially within the next few years. (1) Use a northern Mr. Clement says :where there is a free circulation of air a spot coldest nights. Avoid hollows : frost or cold air settles in them. A southern slope, almost
without exception, should be last choice. This is warmest during the bright days of winter and sooner than the colder northern slope. Wine buds nights we have frost, usually comes from the slope gets it while on the movement the north slope gets it, while on the south slope the air is
perfectly still, and frost is sure to settle there. (2) Use the dryest soil that will retain moisture. A peach tree must have a large quantity
of water, but at the same time there of water, but at the same time there must be no
surplus moisture. The tree is very susceptible to
it. Keep it dry.
(3) Give sand or sand loam the preference it the same time, do not forget the sub-soil. he of a loose, porous texture soil, and must more easily ciltivated than clay, and is much may require a little more fertilizing than clay, the same quantity of humus that will put the
clay in first-class condition will make sand first(4) Do not plant on a wind-swept hill simply (4) Do not plant on a wind-swept hill simply
to get air drainage or air circulation, and at the
same time do not plant same time do not plant too near a high wind-
break. There must be air, but it must not he excessive, or almost entirely shut out. Use comThe following varieties are recommended for he order entire season. They are given in mended it does not follow that they should be re better than others in the plantation. Some (1) Alexander, (2) Triumph, (3) Yellow St. Ien, (6) Reeves Favorite, (7) Nargara, (8) New
Prolific, (9) Flberta, (10) Crosby, (11) Chair's Chonce, (12) Smock. Any five of these varieties f. Trens ure planted from 16 ft x 16 ft , to 20 it 20 according to headine system followThe first two seasons prunning is intended to Tow is tarted the first year and the second year
all that is mecessary is to thin out new ait. and th thin out ton severnly or cut back
late spring, when the crop prospects are fairl years sometimes they bear much more but ususket. great deal less. And this quantity is given only as a guide to indicate what is possible at tha age. The thinning out of the very thick parts
of the tree and the removal of such branches as are drooping or are likely to be injured durin cultivation may take place at any time. Whether to head-in or not is at the discretion of the
grower. Too severe cutting back, one-half or grower. Too severe cutting back, one-half or two
thirds, is not recommended. Thinning out and cutting back about one-third would be much bet ter. No one can tell how to prune. We must
have the tree before us and do the have the tree before us and do the work our-
selves. Very severe cutting back or heading-in selves. Very severe cutting back or heading-in,
in the colder districts is not practised because of the small tender growth thus produced. Clean cultivation followed by a co sown about July 1st is recommended, cultiva and most valuable fertilizer being the cheapes the fruit grower. Cultivation should never be more than five inches deep. Cover crops supply
most of the necessary plant food for the tree Thinning is advised to produce a higher quality of fruit and to prevent overworking of the tree. Just after the "June overworking of the
tory time to do the work. Peaches are ready to pick for the home market as soon as they are spongy to the touch. A red
cheek with a yellow tinge from which the green cheek with a yellow tinge from which the green
has entirely fled denotes maturity. Five things remember are
(1) That the
(2) That you are handling peaches not stones (3) That when once the fruit is picked shade preferred to hot su
(5) That moisture hastens decay
each put in the basket is expected to eat every The portions of the bulletins covering diseases ply and thoroughly, and space will not sima review of all the important facts brought out but this is one bulletin which should be in the

## Grape Growing-lts Cost and

 Problems
## tries in Canada, but not one of the largest indus

 Niagara Peninsula is one of the branches in the ruit industry which has been quite extensively and successfully carried on. J. B. Revett has Agriculture ailed for the Ontario Department of Agriculture a useful bulletin on " Grape-growing, formation, based on the work with this fruit as it is carried on in the portion of country men Of the early varieties, Champion, Moore's EarlyOn and Campbell's Early are considered best; and for main-crop varieties, Worden, Delaware, Concord
Niagara, Lindley or Rogers No. 9, Agawam, Vergennes and Bial are among the best. locations, is a deep, rich clay or clay specia When grapes are planted on these heavy soils they ripen their fruit better, and the flavor is
much nore pronounced and color better developed than with grapes grown on sandy soils. planting, and furrowed to ensure pood surface drainage. Planting should be done between first ten feet apart each way. On heavier solls, plant rowers recommend play, On heavier soils some must be well preet apart in the rows. Land used in planting, greing twice in a place, leaving a furrow in which to set the vines. The different
methods of cultivating and pruning are thoroughA topic of interest at the present time is pick grapes until they are ripe. During the past
years there ears there were growers who have been extremely grapes, and to do this they pick price for their without proper regard for pick their grapes Whole endeavor is set on getting to the Their to palin off on the anyone else, and incidentally tion. If for hog feed, much less human consumppraut heine practiced, it would not be so bad, and the temptation seems to he goine to market, and we find erowers all over shipning ereen grapes. prices. What is foing it and eetting the high ereen grapes, and whom result of this marketing of

[^1]for grapes, and what is the result? A falling off countries to work in mean and also dangerous
in consumption. The good prices that are ob- obs, whicin is tained on an early market do not last long, and jobs, whicin is the way with too many young the growers suffier. This regrettable feature
should be eliminated, and the growers should do everything in their power to stop themselves and
"their neighbors from selling green grapes their neighbors from selling green grapes. Grapes
do not require to be picked before they are ripe in order that they carry well. On are ripe hand, they carry better and keep longer whe
they are picked rine. The question may then be asked, when is a grape ripe ? A grape may be said to be ripe
when it has received its full development of color
The grapes are picked directly from the win and put in the baskets, which are placed, when
full, on the shady side of the vine, to be picked up later by the wagon. The bunches should b
handled as carefully and as little as possible order not to rub off any of the bloom. The bunches are severed from the vines by means o grape-plyers.
like a pair of scissors, but the blades are ver small. A knife should not be used, as it necessiof cutting the stem with a knife requires a for ward pull, which tends to bruise the bunch. Th inch to one inch and a quarter. Any dried or The bunches are then placed in the baskets, the top layer of the basket Those buches ning ward, which gives the basket an attractive and Few growers of
Few growers of any crop ever figure the cost
of production, grape-growers not excluded figuring the cost of production of one acre of grapes, it must be remembered that there are two
years in which no crop is produced. Mr. Revett including cost of 435 vines, planting, cultivatinc fall plowing, the land itself, fall preparation, spring cultivation, interest on money, pruning,
tying, wiring, spraying, and all accessories tying, wiring, spraying, and all accessories, and
here is what it amounts to : Total expenditure per acre, first year, valuing land at $\$ 125$, crop, estimated at $\$ 19.80$, less cost of handling $\$ 1.00$. But the third year crop is valued at
$\$ 52.20$, leaving $\$ 1.0$ profit ment for three years is reckoned, when managemaking \$16.92. The net cost for the first three vears is $\$ 293.12$. The vineyard is now in a conprocess of calculation, would pive a return of
$\$ 22.35$ per acre the fourth year, and increase A discussion of insects and diseases forms an
important part of this bulletin. which is valuable o all those interested in grape-growing, and is

THE FARM BULLETIN.
蔂":Wet Hayinglin Nova Scotia.
Hay-making is still going on. The, recent
ing, mainly through Eastern, Nova Scotia. Some-
imes the mornings would be fine and promising farmers would get out in full force and mow
down considerable hay, then suddenly the would darken and the rain come in showers Much heavy hay and clover has been ruined.
Reports are coming from certain sections tha Reports are coming from certain sections that
the local showers and dark weather are causing blight on the potatoes, estimates at present that ers at present should not complain, as the showers are putting new strength in every growing
plant. Oats in many cases are over four feet in length, and have good heads, Roots and vege-
tables on some farms are ahead of last year's An Finglish farmer, new to Nova Scotia, has
certainly a good garden of vegetables, also excellent turnips. He is shipping barrels of tur
nips to the Sydney markets (Cape Breton.) The turnips are well shaped and fairly large. His
garden is also clean as a whistle, using the comMilk, as always, is in good demand, and a good price, too. An old Antigonish farmer, who
always looks on the bright side of things, showed the writer his milk cheque the other day, saying that the ainount was smaller than last year's,
but that he had lately sold the poor milkers out olter herd. With the money he intends to buy
better milkers in the fall, also stating that his hay, crop was better than last season, and he will have plenty of it.
Why is this man always so happy? The an-
swer is short: He has a sober and steady-going $5=5{ }^{2}=$
armers, even when they are in their teens.
It is stated the been nearly as scarce any other summer as not present. The demand cannot be supplied ; even the price for eggs this summer is and was the during the summer come to town working day eggs for nineteen (19) cents per dozen in trade and at present twenty cents per dozen. Years ago eggs were plentiful at six cents per dozen, and uow scarce at twenty cents. Butter is also
not over-crowded in the local stores block butter : tubs are fairly plentiful. The mar $\begin{array}{ll}\text { ket price is twenty cents per pound. It will } \\ \text { likely be very high by fall and winter. } & \text { J. M. }\end{array}$

## News Notes from Macdonald Col

 lege.H. Dasen has resigned the position of assis e has held since the Macdonald College, whic and has become a practical farmer, having bought four-hundred acre farm in Stanstead county Quebec, which he hopes to make the center of hittle colony of his fellow country-men, the Swiss His successor is Wilfrid Sadler, a graduate of the Midland Agricuitural College, Kingston, Derby and a specialist in Dairy Bacteriology. He has written an excellent text book on the subject, en titled, "Bacteria' as Friends and Foes of the Dairy Farnier.
the position of Assistant in Physics, left لacant by the resignation of Mr. Bates, Dr. D. W Hamilton, of Fredericton, N. B., has been appoint sity of New Brus ick holding the Univer of B. A. M. Brunswick, holding the three degrees distinction in natural science recoiving the Gover nor-General's gold medal. He was for three years Principal of the Kingston, N. B., Consolidated School and has taught science in the New BrunsMr. Hamilton is much interested in agricultural science and is resigning a more lucrative position to get in closer touch with such work. As a correspondent his name is not unfamiliar to readers of the Farmers Advocate
ant has been appointed in the person of W. M. Aikenhead. Although of Canadian birth, Mr. Aikenhead has spent some years in the United
States, where his father was engaged in market gardening. He is a graduate both of the Maryland Agricultural College and of the Ontario Agricultural College
In the Animal Husbandry Department, Alex. Howick, and a graduate of the College, has been

Alterations are in progress in the College stables. The drainage system is being rearrang-
ed, cement floors laid in the feeding stables and double ceilings built in the calf house, horse stable and feeding stable. The stables, which
are of stone, have proved too cool for the stock in winter-especially for the calyes-and it is hoped the double ceilings will render them more comAn experiment is being made with the hope of reventing the freezing of silage in cement silos. the main wall of one of the cement silos, leaving a four-inch air-place.
The crops on the College farm are doing well tons and the clover $2 \frac{1}{2}$ tons of hay to the acre On August 15th the alfalfa is nearly ready for second-growth clover, which will be cut for seed The Physics Department has three men out in surveys. These men report a live interest in drainage problems and Prof. Lynde is receiving work has been done. Applications for drainage surveys are still coming in. Those who wish
such work done should not defer sending in the application forms. Applications received now wise they will have precedence in the other when the Department will have a larger staff in Prof. Suell, of the Chemistry Department, and Mr. Cutler, Instructor in Cereal Husbandry, at tended the sessions of the Graduate School of
Agriculture at the Michigan Agricultural College
in Julv. Prof. Snell also spoke at the meeting in July. Prof. Snell also spoke at the meeting
of the Nat.onal Education Association in Chicago

## Cpop Conditions Favopable

 Condition of field crops in pondents in all parts of the Dominion at the end of July, was issued the middle of August from bulletin states that good fains which fell genered the throughout Canada during July had improv all the outlook, and on July 31 the condition of of fall wheat in Ontario and Alberta, where this crop never fully recovered from the effects of the exceptionally severe winter. Fall-sown wheat represents, however, only a comparatively smal wheat. The condition of spring wheat is 83 p.c. of the standard for the whole of Canada ; it is above 90 in the two extreme provinces of Prince Edward Island and British Columbia and be ween 80 and 90 in each of the other provinces, in Quebec, where it falls to 70 below 80, an rye, mixed grains and flaxseed are all marked above 80 for Canada as a whole, and for eachprovince except Quebec the range is between 80 province except Quebec the range is between 80
and 90 and in certain cases even above 90 . In Quebec the condition is lower, being between 70 and 80. Buckwheat in the Maritime provinces shows over 85; but in Ontario and Quebec the averages for this crop are respectively 75 and 73 .
Corn for husking is 70.37 and for fodder $\quad 73.19$ for Canada, the condition being comparatively and wet weather of the early part of the sumner. The condition of potatoes, turnips, mangels and other root crops is generally excellent, approaching or exceeding 90 in the and either provinces and in British Columbia Only bec are the prospects unfavorable, the condition being little above 70. Hay and clover crops are exception upon the whole, Quebec being again the the Northwest provinces and is Especitialy high in Sugar beets are given as 77.17 in Ontario and .50 in Alberta. The Canadian crop situation as generally favorable, giving neither summarized promise nor the reverse. In Quebec theptional tion of all crops is below that of the other eight A preliminary estimate of the yield per acre of fall wheat is 21.48 bushels as the average for
the total effective area of 781 ,000 acres in the five provinces of Ontario, Manitoba, Saskatche wan, Alberta and British Columbia. This indicates a yield of $16,773,300$ bushels, as compared
with the final figures of 1911, viz. 26,014 . with the final figures of 1911, viz.: $26,014,000$
bushels from $1,172,119$ acres. bushels from 1,172,119 acres. The average yield
per acre of hay and clover is placed at 1.45 ton, giving upon an area of $7,633,600$ acres a total production of $11,038,000$ tons. Alfalfa, with an
average yield per acre of 1.59 and average yield per acre of 1.59 ton, shows an es-
timated total production of 177,300 tons from 111,300 acres. The first estimates of 1911 gav $12,694,000$ tons hay and clover and 227,900 tons alfalfo.
The

The census of the manufactures of Canada compiled shows that calendar year 1910 as now manufactures increased during the decade by 142.11 per cent. The number of establishments employin 202, being an increase of 4,552 in the decade.

ARCHIBALD BLUE,

Cpops Good Along Lake Ontario Northwest to see abundant grain crops. Certain year one of the best crops that the land has this produced. From observations made from the roint as it runs eastward from Toronto, the lak year producing a real "t bumper." Tlevile are this indication of a shortage of bedding on most $n$ the farms in these districts. Grain that was cut n August 17 th was stooked or shocked (as we field with another, seldom if ever have taking one been seen to stand thicker on the ground. Most harvested, and the and much of the barley was o have been a good stand. There were how ver, many fields still out. Some of the howwere cut, and have stooked exceedingly well, but odged and were still standing and were badly the weight of the crop. Some farmers wins and inishing their haying, which has for the most ield, the land devoted to meadow A striking feature is the lateness

THE FARMER'S ADVOCATE
of barley and oats. Owing to the extremely wet Royal Canadian Dragoons in their ever popular
spring, on the heavy lands in some of these coun- musical ride. ties seeding was very backwward. So wet was
some of the soil that certain fields were not sown surprising how these fields until early July. It is a few of them are not a good crop, but others, in which the grain was just commencing to othead, promise, if frost does not interfere before they ripen, to give a good average yield. They have
made wonderful growth, and no doubt are a much
better better crop than if the seeding had been done As a rule the was wet and cloggy in the spring. As a rule, the early seeding gives best results, iting factors in crop production; all must be reckoned with and the condition of the soil at ture of seeding, particularly with regard to moisThe present heavy means least of these. promised 'heavy yield of grain, of straw, and the and converted into good farmyard manure to be returned to the soil, will go a long distance to-
ward winning more just such harvested this year. A good crop means much to the soil as well as to the stock, and the re turns to the farm should prove an incentive to put forth every endeavor to repeat and

Equine Aristocracy at Cobourg Situated on the shore of Lake Ontario, in the heart of one of the best farming and horse breeding town noted for its beautiful summer homes and facilities to satisfy the mind of the most fastidious recreation seeker, Cobourg could not do
otherwise than have a choice display of otherwise than have a choice display of fancy
horses at its annual summer show. For eight years now this show has gradually grown until it is recognized as one of the premier he show lasted five days, from August 13thear 17 th inclusive, and as was expected, broke all previous records. The crowds on each day were greater than those of corresponding days of the
best previous years, and the entry best previous years, and the entry list far out
distanced those of former years, one class having thirty-four entries, and several brought ut over twenty horses at the call of the bugle. date year new barns were erected to accommoevery particular, and the fancy entries are as comfortable here as in their own stables. This is a great improvement and one appreciated by
the exhibitors.
Any admirer of natural heauty could not re-
frain from expressing delight at the grounds on which the show is held. All the stands are so archs of the primeval Canadian forest. Ther monthe spectator may sit in comfort and gaze at ine coming and departing lake boats of all descriptions, and the great beauties which nature has er's love for his four-footed friend as he shows.
er his paces, or poses before the judge. A steeplechase course is provided, which gives the public a full view of the races from the drop of the flag
to the finish. Truly an ideal location to the finish. Truly an ideal location for the
horse and his admirers. Special attractions this year comprised the
band of the 48 th Highlanders, Toronto, and the

Much of the success of the exhibition was due $t$ sident Robt. F Massie Secretary Hayden, Vice-Pre idson, and the very efficient Executive Commit

Officiating judges were: Dr. F. C. Grenside Guelph, Ont.; General Field, Buffalo, N.. Y.; L
Waring, Plainfield, N. J.; Dr. Morgan, Kingst Waring, Plainfield, N. J.; Dr. Morgan, Kingston,
Ont.; Dr. Sinclair, Cannington, Ont., and J. Ful-
Woodstock, Ont.

Tbe prize list covered a wide range, there be ing seventy-five well-filled classes. Hunters and red coat races were keenly contested and and the watched by the crowds, which reached greatest numbers in the history of the show on Thursday, when over 5,000 paid admission. Fancy roadsaddle horses and drafters made up the "bill of fare". which faced the judges, serving a type for The principal exhibitors were - in Harness Horses, C. W. Melean, Prescott ; A. Yeager, Sim-
coe ; Enisclare Farm, Oakville ; L. N. Bate, Ot tawa; J. F. Staples, Ida; Burns \& Sheppard, Toronto; A. R. Stephenson, Ogdensburg, N. Y.; Mrs. Viau, Montreal ; in Hackneys, A. Yeager sters, Miss Wilks, Galt; C. W. Mchlean ; in Road Lodge Farm, Cobourg ; W. J. Crossen, Cobourg and several local single entries; Hunters and Bell, Montreal ; Hon. Clifford Siftoniss Grace Ennisclare Farm, Oakville, and Lt.-Col. H. Cox, Oakville.
but eleven hoord classes wot in large numbers petition was quite keen whe forward, and com Some of the classes had ten entries never lagged Sood individuals, mostly owned in the vicinity ing industry tries were a feature of the entire fhact, local en Awards-Registered stallion, any ane 1 , George Cockburn, Baltimore, on Glenavon, by Baron of Buchlyvie ; 2, New Lodge Farm, on In
varie Chief Cobourg, on King's Courtier, by Aam Watson Foal of 1912, 1, T. A. Davidson Baron Miller Erwin Davey, Precious Corners; 3, Duncan Fer Hon. G. T. Oliver, Yearling mare or gelding, 1 McLaren, Cobourg, on Harry, My Vicen ; 2, H. 3, Jaraes Bray, Cold Springs, on Donald by 1, C. J. MeCarthy Two-year-old mare or gelding, of the Maples ; 2, Stanley Plainville, on Belle on Queenie, by McQueen ; 3, Stephen Herrinorne, Roseneath, on Bess, by Dunure Baron. Light lor, Centreton, on are or gelding, 1, D. H. Tay2, Oliver, on Nell, by Chancellor; 3, He Mctaeen;
en, on Nellie, by Pride 3-year-old mare or gelding, 1, McLaren, Heavy draft Shancellor, by Chancellor; ; 2, Thos. Davidson \& New Lodge Farm, on Maggie of Springvale,; 3 , age, 1, McLaren, on Lady Chancellor ; mare, 2 and any
Davidsnn Davidsnn. on. Tess and Maggie of Snringvale, Light draft team, 1, Oliver, on Nell and Jane ;

Queen 4, on Bessie McQueen and Lady McLark. Heavy Brown, Colborne, on Maud and Millbrook; 2, Duncan Ferguson, Elmvinnight, New Lodge Farm. Champion single drafter Lady Chancellor ; 2, Bessie McQueen. ChamThe champion hackney stallion was Miss K Brookfield Laddie and Mo, defeated Yeager's est Fire, two stylish horses. McLean ${ }^{\text {E }}$ Forand second in fillies
In the harness classes, Earl Grey won first for Trs. Viau, and I Wonder second for Yeager in class. won with Eye Opener, McLean getting 2nd Siau's England's Pride and Eastern Star. Mrs over 15 Wifrid and Earl Grey won the pairs class for pairs under Opener and I Wonder the height, were led by McLean's Eastern Star, any England's Pride, with Lady Warwick and Lad Brantiord second for Ennisclare Farm. McLean Ottawa on tandems, and the Bytown stables was first in unicorns and four-in-hands. Mise Wilk, Nis and four-in-hands
roadster stallions, she also getting first in the three-year-olds on Paronella Todd, and in the Walker Cup for championship with Molly won the while Ashley Stock Farm was the Moly Chimes ner, although many local individual entries wer well up in the money
merous to attempt any individual alther too nuwinnings. The best Canada has were there the cluding Confidence, the Olympia champion reconbreaker, and the Viceroy from Cork, the highclare Farm, Wakville from the stables of Ennisa string of 21 head out, and the other stables had their full quota. The challenge cup for the red coat race was won by R. F. Massie's Half-a-Crown,with Confidence could do ance" class was third, his stable mate performtimes winner, Hercules, winning, with Monty, from Ennisclare Farm, second. But he came back in heat form in the championship class, breaking amid a perfect storm of applause. While the sung slowly sank behind the trees on the west side of prepared for park, and the people reluctantly prepared for their homeward journeys, the cur-
tain fell on the "best ever" in horse lobourg

## A Wet Hapvest.

on Saturday afternoon which set in over Ontario to ease the harvesting situation. Reports had already come from certain sections of fall wheat days of fine weather sprouting in the sheaf. A few ters materially and held week had improved mat cessful harvest. It has certainly been a sucomenally wet August, and warm, dry weather is the earnest prayer. Prices of farm produce ar tending upwards, 35 cents having been asked for
eggs last week at Toronto on the St. Lawrence

A GRaND Lor or big percherons
The ould and reliahlo firm

 horse trate ot in Comatequirenents of the
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The Women's Institute
in Algoma, Ont.
 to eisker foiv would be beneficia to weaker fairs would be beneficial.
the strong look after themselves. Ne land has been purchased, and all fee
anxious to succeed in making grounds and halls attractive. along the same Sault to Goula ago, the lady delegate had to be tied to
the seat of the wagon to prevent her from falling out. To-day, autos are flying over the hills, and reach the Bay
in a short time. Two large moose stood very majestic ally and faced us on the road, and without fear remained until we were almost
in touch of them, when they scampered off into the thicket.
The character of the people in Algoma is shown by the large number of new people have education at heart. I know they have better schools in some cases man in Old Ontario. Many of our and the large play grounds which noticed made me a little jealous. These play grounds, no doubt, will aid in de
veloping the children physically, mentally, and morally.

Mr. Smith. District | Mr. | Smith, District Representative of |
| :---: | :---: |
| Sault | Ste. Marie, is doing good work, | and has been instrumental in introducing school fairs. Prizes will be given for vegetables, chickens, etc. I found that

the children were very much interested the children were very much interested,
and saw some of the garden plots. This is the beginning of a good end.
I think I am not saying too much for ada, the "Women's Institute," when look into the future and prophesy that what the women are doing in Algoma
to-day will leave a lasting impression on to-day will leave a lasting impression on
the next generation; that is, will help


An Up-to-date Schoolhouse in Algoma, Ont.
eemed wasting for want of cattle to eat morally, and that the homasis.

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\begin{aligned}
& \text { seemed wasting for want of catle to eat morally, and that the home life will be } \\
& \text { it. What a country for the sheep in- an important factor. Before closing. } \\
& \text { dustry, and lamb so expensive; also for allow me to congratulate }
\end{aligned}
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\begin{aligned}
& \text { dustry, and lamb so expensive; also for allow me to congratulate Lee Lee Closing, In } \\
& \text { cattle, and yet some poorer grades are stitute. It was organized one year ago, }
\end{aligned}
$$

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\begin{aligned}
& \text { cattle, and yet some poorer grades are stitute. It was organized one year ago } \\
& \text { being fed. No buyers are going in for and . we had our meeting in a "new } \\
& \text { cattle, but if there were co-operation in hall." }
\end{aligned}
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## The Windrow.

$\qquad$ as born August 31, 1879, was educated mperial fumily érved as 'Lieutenant-General in the He married the Princess Sabako in and and has three children. If they foo tradition, Emperor Yoshihito and Empress Sabako will not formally ascend the throne for a year

The famous actress, Sarah Bernhardt ful acting to future generations means of the moving-picture machine. She does not even stipulate that the films will not be shown until after her in which she takes the part of Queen a moving-picture company in America.

Miss Octavia Hill, a social reformer who for a time assisted John Ruskin in ditions for the poor, died in London, Eng., on August 14th. She was the
author of several books on social Those who declare, says the Daily News, that the literary woman is no domesticated, will find a living refuta-
tion of the assertion in Mrs. Burnett Smith, "Annie S. Swan," who is above
and before all things a "home" woman. Her house (North Road House, Hertford, Eng.) bears witness to this. From the
radiant, rose-tinted drawing-room to her
own litue Spartan in its simplicity, there is a dual atmosphere of spick-and-spanness and
comfort which is very exhilarating what I liked best was the Scotch bedroom,
retained for the use of visitors from be yond the Tweed. The chintz curtains fascinating little purple thistles. "I had reat difficulty in getting that pattern,"
said Mrs. Burnett Smith; "in o get it made to order. When I asked
in a shop in Edinburgh if they in a shop in Edinburgh it they had a
thistle pattern, the shopman said, Oh no, madam, we don't stock anything so
yulgar'-and this from a Scotsman, tool

Laugh It Off
When you can't make any headway,
and each day seems tike a dead day And the thorns begin to pester till your Stop a bit, get busy quaffing,
From the Cet your fill and thelled "Laughing" over-it's
re you grumpy? Are you faded ery time some fresh work doth claim
you? rave you lost the thing called tact? Try a cup of sunny chaffing,
Sweetened up with merry laughing
parents that if the homes
of Algoma were uplifted, there might be
no fear for its future prosperity. The
happy families coming in democrats,
lumber wagons, buggies, and autos,
lumber wagons, buggies, and are at preat pic-
meeting once a year at the "and
nic," went home contented and happy,

AUGUST 22, 191
Hope's Quiet Hour
Meet for the Master's Use.

Let every one that nameth the name Christ depart from iniquity. ... If man therefore purge himself from these, hed and meet for the Master's use, and
fied, and
prepared unto every good work. prepared unto every good work. -2 Tim.
II.. 19-21. St. Paul, in this connection, speaks of the numerous articles needed in a great
household. Some of these are made of gold or silver, others of wood or clay, but all are needed by the Master. So,
in the Church, which is the Household of God, each one-young or old, rich or poor, educated or ignorant-is needed by
the Master. The various circumstance the Master. The various circumstances,
which make one life so different from anwhich make one life so different from an-
other, are not accidents of fate. As Browning suggests, we are like clay
the wheel of the Divine Potter,
( kio wrue exacty the kind of vessel ho wants us to become, and is steadily
working towards that special end. It is
faithless folly and rebellion to murmur and complain over little trials or great sorrows. The Master makes no mistakes
and is intensely interested and absolutely careful over your perfecting. " He fixed thee 'mid this dance Of plastic circumstance,
This Present, thou, forsooth, would fain Machinery just meant
To give thy soul its bent,
Try thee and turn thee forth ly impressed." Why should you feel that you are un-
justly treated if you are called to work son has the chance to earn his living in a way which seems to you very easy-or perhaps has no need to earn his living
at all? If everyone were forced to do at all? If everyone were forced to do
farm work all the time you would have farm work all the time you would have
no books or newspapers, no pictures, carpets, furniture or china, no telegraphs telephones or machines of any kind. If no one did farm work the world's popu-
lation would starve. If no one had leislation would starve. If no one had leis-

ure and money to spare there would be little chance of thinking out great problems in literature, art, theology, science, ly in carrying out great enterprises| philanthropic or national. | $\begin{array}{l}\text { enterprises- } \\ \text { Certainly } \\ \text { no }\end{array}$ |
| :--- | :--- | one is intended to be a drone, doing

nothing for society; but, as the body nothing for society; but, as the body
would suffer greatly without eyes-which seam to have an easy time, yey are neces-
sary to the comfort, safety and general welfare of the man who lives in the body veryone were forced to work early and chinkers have a chance to inspire and help millions during their earthly life, turies that follow. The Master wants
some of His servants to work with their brains, and some with their hands. The important thing for each of us is His keep ourselves always in readiness for
His work, "sanctified and meet for the Master's use."
There is no chance in our position. Each one is called to do the work for Which God has particularly fitted him.
He who calls each one of the millions of stars by narne, yet has time to think of every tiny sparrow, has declared that
His children aro more precious than many sparrows, and that even the hairs of
their heads are of value in His sight. Is it likely that He will give needless pain to those who are dearly loved, or
risk any unnecessary strain which may injure one of us in body, mind or spirit? But if we are to be meet for the Mas-
ter's use, we must, as our text declares be cleansed and made beautiful with the glorious beauty of holiness. A cup made
of common clay may be transformed into precious china, and glass may be cut so that it reflects the light like a dia-
mond. Let us work with the Master mond. Let us work with the Master
trustfully, summitting without a grumble
to His dicsinline and ohevine His orders to His discipline, and obeying tis orasons without demanding to know
and Dlans ; then we shall not waste our
time and His, but every day will add time and His, but every day will add We have certain natural qualities which
our trust, to be used for
Him and fo
our brothers and sisters.
The momen we begin to grow conceited about then
or fancy they belong to us, and that $w$
have a right to squander own selfish int interests, we are wasting them-wasting and injuring our Master's
property. A beautiful woman mating hroperty. A beautiful woman may use others with high ideals, or she may drag
meu by that dangerous gift down to awn ful ruin. A man may use riches to and intellect for the good of the world, or he
may waste then purpose of God. Cleverness is not the
secret of secret of success; it often leads to dis-
astrous failure. A clever boy is apt to
neglect his astrous failure. A clever boy is apt to
neglect his lessons and receive only superficial and fimsy education : a clever man may be shallow, conceited and weak doing little or nothing but slip easily Whatever
Whatever special powers you haveand we all have special gifts of some
kind-never look down on other people because they are without them.
lent lent you what you needed for the particular work He has given you to do,
and you are unfaithful to less you are unfaithful to your trust un-
to lis ding His work according
Do you think that the commonplace work of Monday or Saturday is less ennobling and important than the teaching of a Sunday-school class or a visit
to a sick person? If the Master to a sick person? If the Master has
set you the task of washing on Monday,
or scrubbing on Saturday the fact or scrubbing on Saturday, the fact that
He is using you makes the commonplace He is using you makes the commonplace
work glorious. The washing and scruibing will have to he washing and scrua- again another day, and it may seem to you as though no lasting result came from all your hard work. So might a tree think that
its leaves, which waved its leaves, which waved cheerfully all thmmer, and then dropped off to die in
the winter, had done no real and lasting good. But they did their appointed work, and the tree gained life and power from their unnoticed drinking in of sun-
light, air and rain. You were cheerily blacking a stove last week, singing over the dirty job, and now the stove neers cmaning again. Was last week's $\begin{aligned} & \text { work thrown away ? Cer- } \\ & \text { tainly not. It is built into your char- }\end{aligned}$ It tainly not. It is huilt into your char-
acter, and you are a little more lovely
in the Moster's in the Master's sicht, more meet for His
use in the great work of lifting mankin nearer to God. You were kind and forbearing in man-
ner, and loving in thought towards a fretful, selfish person yesterday. You
may have forgoten it, but God is using mour have formotten it, but God is using
your face and kindly words to attract that other weary heart to His
own. You are a little nearer the perown. You are a little nearer the per-
fection He desires to see in you
has been able to use you as a polished Or perhaps do His work. selfish, sharp in speech or rude and un have failed Him or action. Then you you, and have done serious harm to the which you would like to help. The day ophortunities sand ordinary was big with used or wasted them, and the good or vil done in your own or other lives ASTS. You may say lightly that the past is gone, and perhaps you think that othing very important for good or ill
an have resulted from ordinary eeks. Browning says :
Fool! All that is, at all, Lasts ever, past recall;
Earth changes, but thy soul and God stand sure: What entered into thee,
That was, is, and shall be :
Time's whel runs back or stops ;
Potter and clay endure," Potter and clay endure.'
Perhaps you are called to endure a
really great sorrow. The Master not explain why this is-He must have
good reason for His silence. How glad good reason for His silence. How glad
He is when you trust Him and take un the cross with the cheerful endurance of a hero, instead of lying down in a hud-dled-up heap under it, with your face gleam of sunshine which may find its way into your darkness. One you love has been lifted out of your sight. Can't you keep in touch with him through the
Master, Who is holding His hand Master, Who is holding His hand and
trying to clasp yours? Is there trying to clasp yours? Is there no one
left on earth to love? While love is reaching out in prayer and service, no outlook can be utterly dark and hope-
less.

$$
\begin{aligned}
& \text { Have you pain of body, heart or spirit } \\
& \text { to endure? The Master was perfpected }
\end{aligned}
$$ Thendure? Master was perfected

through sufferings (Heb. ii. : 10 ), and we must either willingly endure hardness as the perfecting of Jich will Chist, or mise us clean
and God holy, meet for the Master's use us are nederately batisfied while any of is longing for our perfection. His object in watching over our lives is not to make us comfortable, but good. Those lived gloriously calls failures may have those who are envied as rich lives, and may be saddening their loving Father's The Master cares about ailure. Nothing is trivial or unimportant when it concerns us. He weighs
every trouble and every duty, never giving us one grain more than is needed for ur perfecting. The other day I read in
microscope has to be used to see the tiny weights used. Be sure, the Creaor of radium is not behind His children Our business in this world is not to grow rich, famous or popular, and then so hardly won. That would be saddest failure. Our business is to grow daily more pure and holy, in heart and in ously through the mysterious door of death all that we have gained in our passuge through this wilderness, and may Me prepared for the higher work our ful Promised Land. Does your wife seem duil and profitless? You can hîve no conception of what it is worth to God. disappoint Him?

The Ingle Nook.
$\qquad$



Dear Ingle Nook Friends,-Aren't yo ylad, whether Conservative or Liberal in ment has decided to throw the weight of its power into an endeaver to stamp out It takes strenuous one Province at least? the White Plague, and just as long a hothing strenuous is done the disease must go on spreading, with all the sufselves, and all the agony to their friends, According to the new regulations it appears, each medical practitioner will be compelled to report to the Provincial oard of Health, within twelve houra case within his district. Afterwards, he will be required to report weekly on the progress of the patient. In the mean-
time the Board of Health will ime the Board of Health will at once
lorivard to the patient and his family printed instructions regarding care and treatment of the patient and prevention of infoction or contagion from the disease. In cases where the patient cannot
be isolated enough at home, the Health be isolated enough at home, the Health
Offler may order the patient to be removed to a sanitarium, the expense, When he is indigent, to be borne by the
municipality. This provision, however is probably intended to apply more espeis probably intended to apply more espe-
cially to crowded city districts. There
are practically no country places


King George and Queen Mary Visiting the Sick

influence which partyism hased at the who should know better than to have
their best judgment swayed by it notice by this morning's paper (I am
writing this on August 10th) an item Which states that the British Governquestion of expressed a haval defence may be rein Canada. Now, don't shudder.-I am not going to launch into a disquisition on the naval question.-The point that
is tickling my risibilities is this any Government should find it necessary
to make such a request. The to make such a request. The very do-
ing so emphasizes the truth that all we Women know (since we cannot vote we
may be as unprejudiced as we choose 1)
that nine men out of that nine men out of ten (is that too
large a percentage ?) follow party like
sheep. - Throw sheep.-Throw common sense to the the the
winds ! Pull the wool over your Bury out of sight your best judgment Trot obediently after party ! . . Don $t$
think-above all things, don't thius ! think-above all things, don't thius
Swear that black is white : Believe tha everything brought out by your ow side is by order of the archangels, every-
thing on the plattorm of the other side Be one-sided,-whatever you do, be one sided ! Talk the other you do, be one
mere harangue, down by mere harangue,
silence listening silence listening with deaf, ears and a
palisaded judgment! Don't read both sides of the question! For mercy' sake don't do that! You might get Now, isn't this what nine you did !ten, and a few women who pride them-
selves on being politicians, "act") What an awful thing to be BORN to
party. And, fust think party. And, just think of it, had all
of these been born on the other side, they would have been just as explosive,
just as stubbornly in favor of the very things they now condemn.
And so, because the world of poli-
ticinns is so "unchly thus," I have said, Conservative or Liberal, the British Government finds it necessary to
suggest that this great question be taken out of politics. Verily, methinks, it tions taken out of politics.

And now, to turn to more quieting I return from holidays, that $I$ have a great deal to write about that particular
small section which has always been to me home. True, the most conspicuous
object within its immediate confines is object within its immediate confines is
just a small country village, but then, we must remember, Thoreau was able to
say that he hiad "travelled a great deal
in then in Concord," so why may not the rest
of us find it possibie to do the same thing within a similarly small area?
There is so very much to see in the country, even in a weed-grown ditch,
one has caught the secret of using one

My sister and $I$ spent just one afternoon botanizing, back at the beaver no beavers there now, nor have ther
been any for the past, been any for the past firty years, bu
the name still clings, and no doubt will so long as there are any descendants of
the original settlers in the netgen hood. But if there were no beavers
there were plenty of other interesting things amore plenty the long other interesting
thass by the river. Of plants that we did not know,
we were able to identify a sort of loose-
strife which rioices in the serable". scientific name of "ysimachia


Really, it seems to me, all farm folk
would be just the better of knowing an inkling about, yes-botany, But, if
one has never learned anything of it,
and really has not the time to devote ing acquainted with it, there is becom-
itill a plants. The Government weed book Which may be obtained from the Experi-
mental Farm at Ottawa (price $\$ 1.00$ ) contains pictures in color, with name,
description of, and methods of eradica tion of all the troublesome weeds. There are slmilar books on the wild flowers, with pictures, common names, and easy
descriptions, intended for those who do not care to take up botany minutely, 1 shall be glad to give the names of these
books, to anyone who may wish to know
them.

## And now, after this digression, back

 to our riverside again. Beside the bew(to us) plants mentioned, my sister and
I saw, that day, several old friends most of them, oh, so beautiful ! Triends, There
were a tew wild roses in bloom, and among them, straggling in bloom, and among the
tall grass, some spikes of the crimson-cardinal flower, a feathery show-
ing of the lovely whit, some the lovoly white meadow rue, and
milke pinky - purple clusters of swamp milkweed. Farther on were masses of
white boneset, or thoroughwort, almost
in blog in bloom, as were also the many heads
of its sister, the pinky-toped weed. The old her doctors, you know, of these two plants, the latter of which
received its name, indeed received its name, indeed, from an old
New England Indian doctor who is said
to have cured typloid fever hy its uas

## On past the river and up into the pas- ture land, but even there the wonders

did not cease, for here was a clump of
pearly everlasting, or "immortelles," with white flowers and downy leaves;
there was another of yarrow, used in
some parts
some parts of England for weaving
bridal wreaths while up on a knoll be-
yond grew a whole culon Wort, with its yellow flowers. John's
This
flower derived its name from an ancient superstition that on St. John's ancient
that had fallen on it whs serve the eyesight. It was, therefore, a balm especially good fur sote eves
The plant was also gathered The plant was also gathered on St
John's eve, to be hung at doors
windows, and in Scotland
carried about in the clothing as a safe-
guard against evil spirits and witch-

## -

Admire any of these plants that I
have mentioned as much as you choose. have mentioned as much as you choose,
Not a single one of them is "danger-
ous." Made for beauty, it would seem, ous." Made for beauty, it would seem,
they are. I have not mentioned any of
the noxious weeds, because we did not see any of them back there by the riversee any of them back there by the river-
side that day, and anyway I don't want
to talk about troublesome plants just to talk about troublesome plants just
now, but only about some of the sweet now, but only about some of the sweet
"'wildings," which help to make those "wildings," which help to make those
who love them feel that there is so very
much in this green world to make life much in this green world to make life
worth living. worth living.
I don't know who wrote the following, I don't know who wrote the following,
but it is very pretty, is it not?
und "Over in the swamps life is gay and
free; for why should they be dull when free; for why should they be dull when
they may be merry, or why should they throw but sparingly their bloom when
their soil tells them to send it out abundantly? In its time and place
each lovely flower unfolds. the turtl each lovely flower unfolds; the turtle
travels slowly back from the nearest ravels slowly back from the nearest
pond; the blackbirds pipe and the oriole
matches the matches the tint of his wing with the
petals of the marigold petals of the marigold. Grave willows
have a feathery care of the sweet comhave a feathery care of the sweet com-
munity, and, although King Carnival
pass up and down, disorder newer pass,
reigns."
 you know, there are a a few folk who
think all talk about merely beautiful things just twaddle, and we must try to have something for all.
One thing that struck me greatly while on my visit to the country was the in-
tense interest which tense interest which the farmers' wives
whom I met have in their gardons whom I met have in their gardens.
And really the gardens do look very well this year; so much rain has been
the very life of them the very lieat, of them. Such cabbage !
Such beans! Such lettuce, and beets, Such beans ! Such lettuce, and beets,
and carrots, and vegetable-oyster : The
corn and tomatoes only have suffered
somewhat, but they ore the corn and tomatoes only have suffered
somewhat, but they are the tropically-
inclined among the inclined among the horde; they need the
hot sun to coax them to their best enI can imagine few sights more pleasing
to one who loves the country To one who loves the country and all
that " "in it is," than to see two or thre farmers' wives walking up and down the garden of one of them and "comparing
notes."-How interested they are !-How many things there seem to be to tell !as they make way through the lush
green rows green rows !
It is wholesome conversation, this that
takes place among the cabbage and rakes place among the cabbage and bean
There is no gossip about it. On the contrary, there is a great deal heard a few city people (please don't think I mean all city folk, for there are
many very nice people in the cities refer merely to the members of certain
sets, whom you sets, whom you may have met, and
whose remarks need not hurt yout, talk Whose remarks need not hurt you), talk
lightly about the "narrowness of range of conversation" in the country, but
always smile inwardly, always smile inwardly, even when I
think it worth my while to launch a
serious proter serious
mentest, on hearing such com-
ments.
Surely talk about the wonderful krowing things, which respond so readily
to care, and yield such a good hat of care, and yield such a good harvest
of nourishing food, is quite as elevation as that about Mrs. Golightly's bridge
party or aftern party or afternoon tea, the latest show,
or the latest fashion tin drest or the latest fashion in dress or hair
arrangement, topics which make up,
goodly share of the conver mital sets that I have mentioned. that "the heard some city folk is soy, toon,
you eversipy." believe that there ference. City folk gossip quite as much
ns country folk as country folk, and, although there is
a praiseworthy city fashion a praiseworthy city fashion abroad that
taboos pronouncing unkind opinions at
the parties and terss an "hat is wonderful how mmin, news that might
better have been left untold.
dissemint
 taik gardens, and chicefensence, let us
Perhaps the truth ond cows. Perhaps the truth of the matter is cows.
we all, whether in country or town, need
to puard anoinst we all, whether in country or town, need
to guard anainst unkind gossip a little beter than we do.
books that were partly story, partly
practical, and wholly delightfury. I watt
to tell you something about them, but to tell you something about them,
dear me, how our space has dear me, how our space has run
I shall have to wait until anothe

To The Women's Institute
to you to-day. For a longent to tome I have
thought that we should devote a special
corner corner to the Women's Institute long time ago it was suggested to wa institution, but we were obliged to re Tuse, partly because of space considera-
tions in partly because it is against the paper, of any journal to be the especial organ should not help reason, however, why we papertent of regularly publishing their ble. A motto of the Institute in many
places is, "If you know a good thing pass it on," so surely the chance to
pass on a number of good things to
our 30,000 subscribers
Camilies and others, is one that will
satisfy those who wish to reent
audience.

We shall
Women's Instit, any papers read at been found helpful. For the whe have of these we will be pleased to allow the
writer one year's iournal, or, in case of ther to our already subscribers, one year's who are of subscription. We will also return th
original MS send all MS. if so requested. Kindly see that the rest of the business is at at
tended to.
AN Altruistic plan.
Dear Junia,--The interesting time
last spent in your cozy corner last spent in your cozy corner has reate
mained a mained a pleasant memory with me
therefore I have come again to therefore I have come again to spend
another evening at your cheerful fireside But, dear Chatterers, this time I come with an appeal., When looking over the "Women's Page" in one of our leading I believe, should claim our special tention. It stated that in the city of Montreal alone, during the last spell of
hot weather, there were eighty child buried in one day. A large percentage most dese deaths were those of babies, slums. of them being children of the have suffered also, although perhe cities a lesser degree. Now, does not that affairs ? I wonder if able condition of ant country homes, could not do some poorer to alleviate the suffering of our if we would each invite a mother wi'th er babe to come and spend a couple on weks in our country home, away from
the city dust and noise, during the
more intence more intense heat of the summer, that the mother might have the benefit of fresh air, fruit, pure milk, etc., and that
they both might escape the glaring heat hot unsanitary slum districts. Might ity among the little ones? Wessen mortal-
members are should remember that motto, "For Home and Country," and then consider if we may not be serving both home and
country by making a vacation in the country possible to at least a few of
these overworked mothers and suffering habes. Werworked mothers and suffering
buccess. Wishing your Department every WINNIFRED M. AUGUSTINE. Layer Cake
$\qquad$ cheese made skimmed-milk cheese, The following recipe which milk. heen given in this column before is $\begin{array}{llll}\text { found. Try it. } & \text { Reliable } 1 \text { have ever } \\ \text { butter and together } 1 & \text { cup }\end{array}$ cup sweet milk, then 3 beatent eggs.
Last of all, beat in 3 cups flour in which
have been sitted in

UGUST 22, 1912
THE FARMER'S ADVOCATE
1471

 the top will harden over too soon and . Her toes are not like mine at all;
the oake will not rise nicely. Be sure
They'te tuke the cake out the moment ine her skin;
 Left in the oven even a little too long.
tut the layers together with jelly,
ny kind of illing you any kind of itling you prefer. If you
have made it in wo thick $\begin{aligned} & \text { ayers, split } \\ & \text { each in two. when cold, with }\end{aligned}$


 box, well corered. but nove a recipe for whole milk chiose,
milk. Perhaps some made with skeader will iminad
mine milk, Perhaps some reader will he nind
enough to cortribute a method for he
latter.
Here is one for making turnse

## $\checkmark$

 en scale pepsin from the drug store wrd
follow directions, which may differ with
 grees when the rennet tablets or oxt:.ct is added. Let stand until the currd tas
bocome frrme enouh to cut clean, then
cut it into cubes about it inch in diameter.
motion
and
Next set the curd gently in
raise gradually to a tominperature of 98 degrees. $F$. In an nour
and a half from the time the rennet was druw off the whey at once and drain the curd, cutting it into blocks so that the
whey can drain out. In an hour cr ${ }_{\text {it }}$ mill tear in a distinct grain. that should now be cut into small ifts,
cooled to 80 degres, and salted. When it becomes mellow again, put it in the
pross and press firmy for at least taken hours. Frinaly, when it is press, put it in aoom Where the temperature will not exceed 65
degrees, to cure. Turn the cheese every old, paint it with melted paraffine to prevent moulding. It will be ready for
use in two months, but may he tof longer it a more highly-flavored cheese
proterred For whole milk and cream chese, see
article abriget from Henry E. Alvord's
bulletin on cheose-making bulletin on cheese-making at the end of
the department. verses for children-scones. Dear Junia, -I am about to ask a re- re
quest quite out of the oommonk but
know you must be almost always exbuter. Add milk to make a stifespough
mixing it in with a knife. dough in two and pat out into two
scones,
Knite
inch thick. Mark with a knifos, as inugh thick. Mark with a
of the way throung pie, cutting most brush with milt bake on a a through, brush with milk,
oven 15 minuesed pan in a very hot Scotch Scones.-With \& $1 \mathrm{lb}$. . four mix
well by sititing $\ddagger$ teaspoon salt, $\ddagger$ tean
 with buttermilk, handing as litle as
possible. Roll
caleses, and bakery quickly, cut in small
 Protecting vines for winter. Would be glad if you would give me
sonol advice through your valuable
paper as to the care of aclematis vine paper as to the coro or o pour vamaluable vine,
also the baby rambler, through the wion
ter the win
 Lake Huron, in Bruce County. Does the clematis die dounty each year?
Should the rose be taken down and
 There are several species of clematis,
some of which are more hardy than
others. the lare monem
 variety. Dmall-Aowered "paniculata"
safer to winter the the frgrat
winter sater to winter the large-liowering species
in a frost-proot cellar. All vines are, however, the better of winter
protection, even when grown. be given by binding old sacking or
straw over the vines
does not The clematis


 cover the tops in somem manner. We must The leaves are really the breathing
can be used for this purpose.


 through you be kind enough to publish, addresses of somee of the hospitals in the the nam and
states of Naine ver states of Maine, Vermont, New York,
Massachusotts, and Now Hampshire, that Massichusotts, and Now Hampshire, tha Thanking you in advance.
Moose Creek, Ont. HoNora. Nery excellent hospitals are St. Luke's,
New York City; The Presbyterian pital, Neaw York City; The Massochu setts General, Boston; Boston City Hos cho-
pital; and pital, and if you, care o o go farther
South, the Johns - Hopkins Houpher South, the Johns-Hopking Hospital,
Baltimore, Md. Nearer
hosppitals,
 pital, Buffalo; General Hoegitare, Roches-
ter; General Hospital, Yonkers.
do ter; General Hospital, Yonkers.
not know anything of the do
not Cot know anything of those in Maine,
Vermont, or New Hampshire, but Letters
adressed to the General Hoena tol
 the capital of each state would be sure
to reach them. The capitals are, as you no doubt know, Maine-Augusta: New Hampshire - Concord; Vermont-
 a solution of 1 fluid ounce of liquid then insa in 20 fuid ounces water. Rinse
part, mlum
in part, alum 1 part, saltpetre 2 parts; all
dissolved dissoived in water 4 parts. Let it ro and dry with chamois.
$\qquad$
$\qquad$

$$
\begin{aligned}
& \text { WEDDING QUERIES }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Editor "The Farmer's Advocate": } \\
& \text { Dear Juni, - Wishing for a little ad- } \\
& \text { vice, I thought my best plan would be } \\
& \text { to write to "The Farmer's Advocate." }
\end{aligned}
$$ If the chains are just plated, as those

of most of the silver mesh bags are, the

$$
\begin{aligned}
& \text { to , write to "The Fart plan would be } \\
& \text { he we we Advocate," } \\
& \text { no wave already received some valu- }
\end{aligned}
$$ of most of the silver mosh bags are, the

purse may be cleaned by rubbing it with

$$
\begin{aligned}
& \text { hs we have already received some valu- } \\
& \text { able information. Dear Ingle Nook, } \\
& \text { would you oleone. }
\end{aligned}
$$



$$
\begin{aligned}
& \text { able information. Dear Ingle Nook, } \\
& \text { would you please give me some good } \\
& \text { suggestions for a noon wedding. good }
\end{aligned}
$$ Brush out well with a soot brush

move all traces of the whiting.

$$
\begin{aligned}
& \text { Would you please give me some good } \\
& \text { suggestions for a noon wedding, some } \\
& \text { thing simple, but tasty? wede } \\
& \text { Would a cold }
\end{aligned}
$$

$$
\begin{aligned}
& \text { suggestions for a noon wedding, some- } \\
& \text { thing simple, but tasty? Would a cold } \\
& \text { meal be all right for noon? }
\end{aligned}
$$

$$
\begin{aligned}
& \text { meal be all right for noon? I am very } \\
& \text { scarce of help, and for this reason wish } \\
& \text { to make it as easv }
\end{aligned}
$$

Stains-tomato plants, ETC

$$
\begin{aligned}
& \text { scarce of help, and for this reason wish } \\
& \text { to make it as easy as possible. Would } \\
& \text { potato salad and cold hame. }
\end{aligned}
$$ Dear 'Junia,- -Will you kindly answer the

iollowing questions through "The Farm

$$
\begin{aligned}
& \text { potato salad and cold ham, a variety of } \\
& \text { pickles, and something for dessert. }
\end{aligned}
$$ r's Advocate":

How can tan canvas shoes be cleaned?

$$
\begin{aligned}
& \text { pickles, and something for dessert, do } \\
& \text { for about fifty guesta I would be } \\
& \text { pleased to have an answer as soon an an }
\end{aligned}
$$

$$
\begin{aligned}
& \text { pleased to have an answer as sould be } \\
& \text { possible. Would an an auto veil }
\end{aligned}
$$ be any use? polsin used for leather

$$
\begin{aligned}
& \text { possible. Would an auto veil be enough } \\
& \text { for trip to station? Hoping to hear }
\end{aligned}
$$

$$
\begin{aligned}
& \text { does not die down each year, but is } \\
& \text { often severely trimmed back by the } \\
& \text { frost. }
\end{aligned}
$$ Since reaching the ago of about twenty turn in my toes when walking. Do you

$$
\begin{aligned}
& \text { from you soon, and thanking you in adr } \\
& \text { vance. } \\
& \text { Nova Scotia. NOVA sCoTIAN. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Perhaps you may be pleased to hear } \\
& \text { what the noted horticulturist, Prof. L. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Phathaps you may be pleased to hear } \\
& \text { what the noted horticulturist, Prof. L. } \\
& \text { H. Bailey, says in regard to growing } \\
& \text { the clematis. }
\end{aligned}
$$ Know whether this could be cured? 1

$$
\begin{aligned}
& \text { H. Bailey, says in regard to growing } \\
& \text { the clematis. } \\
& \text { "To grow clematis most successfully }
\end{aligned}
$$ this distressing and get a remedy for

Kisdiguring habit. Kinaly send suggestions.
I got some tea stains on a cream
 pour boiling watereone through the stain,
but this did not altogether tremove it.

$$
\begin{aligned}
& \text { rotted manure spaded in and thoroughly } \\
& \text { distributed through the soil. In hot, }
\end{aligned}
$$ but this did not altogether remove it.

I should like to know whether it could
be perfectly removed. be perfectly removed.
Could you let me know which branches

$$
\begin{aligned}
& \text { for children, between the ages of two and } \\
& \text { five years, to recite? Also the names }
\end{aligned}
$$

larly watered in order to obtain the of tomato plants should be cut off?
When should these be removed ? When should these be removed?
Huron Co., Ont. IVACHoros.

$$
\begin{gathered}
\text { of a few nice songs? } \\
\text { Would you kindly } \\
\text { scones? }
\end{gathered}
$$

Perhaps some of the mothers who to watch persistently, for a time, that
the habit is not indulged in the

$$
\begin{aligned}
& \text { Know baby some of the the mote welp you in who find- } \\
& \text { ing some for the little tot of two. } \\
& \text { Here is one for a start: }
\end{aligned}
$$Tick-a-pack-a-poo 1

Now I lace
Here an eyelet, there an eyelet,Sir, how do you do ?"
Here are a few for the five-year-old:the bowl of a teaspoon.Look in me sideways,
You'll laugh from ear to ear;Cook in me lengthwise, to ear;
You'll scare your mother, dear.You'll scare your mother,
Fat man ! Lean man!
Oh dear, how very queer !it the lit the rad looks in the bowl of
silver teaspoon as he learns this hesilver teaspoon as he learns this h
will catch the point of the rhyme.

MOTHER'S KISSES.
Con't mind bumps or bruises now,That mother dear will kiss the place,
should be turned outward at an angle
of 45 degrees.
Scientific American says to remove a
tea stain from white woollen
tea stain from white woollen goods in
this way: Wet the spot, then apply solution of potassium pot, then apply
Remove Remove the brownish bermanganate.
mains with sulphurous acidet that remains with sulphurous acid, then wash
out. As this method is given for "white", goods, it is just possible that the spot, after treatment, may be left
pure white, but you could easily it by applying a cou could easily color water, testing it first to get the exact
shade. Sometimes tea stains may be removed
by rubbing the spots with butter stand a while, then wash out with hot
stet
water In regard to your question about tomato plants: French, in his book on
vegetable growing, says, ""Pinch off the
ends of the win vegetable growing, says, "Pinch of the
ends of the vine and side shoots if the
plant is growing to plant is growing too fast without set-
ting fruit. At about the firs
$\qquad$

You really do not need to have an
elaborate menu at all. I think
elaborate menu at all. I think we
should strive to bring simplicity yet more simplicity, into everything and nected with the country. Let the cily
folk wear thery folk wear themselves out, if they want
to, in running after style; we do not
need to. The menu you suggest would do very nicely. For a sweet, you might have
some nice ice cream or and cake. It would or a fruit salad station. wear her travelling hat to the automobile, when an went there in an needed to keep off the dust, a might be tive veil would be preferable, say obat the back, with no ends Aying. closely
homemade cheese.
making (Farmerg' Bulletin on cheese been issued by the U. S. Department ha given is, briefly, as alngton. The method riven is, briefly, as follows: The best
time to start the cheese is immediately after milking. First pour the millik from one vessel to another to aerate it well, pure and fresh, then pour it the air is wash boiler. If you wish a cheese high color, use about a teaspoonful of meese coloring to 16 gallons of milk,
mixing it first in a little separate Now add 1 ounce rennet extract for every 12 gallons of milk, mixing the extract first with half a dipper of cold
water. If rennet tablets are wed, small tablet for every 5 gallons of milk or one large one for 25 gallons will be any drug store or dairy obtained from The milk should be a hous not lower than 86 degrees $F$., norature 90 degrees $F$. When the rennet is put in.
Test it by a thermometer (Fahrenheit).

1472 After the rennet is put in, stir the
milk gently two or three minutes, then
let stand until the curd is fin to cut. The curd will be ready for this When it breaks clean across the fneger
Now cut it lengthwise, then crosswise intil it is in cubes about the size small kernels of corn. If only a fev
cheeses are to be made, a wire may be used for this. N Next stir the
curd gently for about three minutes then heat slowly to 98 degrees $\mathbf{F}$., stir ring all the time while the curd is betemperature for about the curd at this tell when it is cooked enough, take for a moment, then open the hand. it falls apart it is firm enough. When
cooked enough draw off the whey. Now put the curd into the mould handfuls, pressing it in well until well 8 to 10 inches in diameter, and about 3 inches thick. When pressed down firmly, take the cheese out of the mould,
turn it upside down, then replace it and put on the heavy weight. Any vessel
with small holes in the bottom will do or the mould, and a pail containing a few stones will do for the weight.
not apply the full weight at first. Let the cheese remain a few hours collows : Fress, then take it out and dress as for a moment, then wipe dry and smater inches a pide and thin linen about six around the cheese
inches. cheese, put a circular each side, then replace the cheese in the Leave for ahout on the heaviest weight. and salt. brine salted, but the latter method is
the better. and water as strong as it can of salt and water as strong as it can be made.
Put the cheese on this, and sprinkle some $2 \ddagger$ days, turning the cheese over every 12 hours. Next put it on a shelf in with the palm of the hand every day fo a week or two, then twice a week until
the curing is complete. While curing, Wipe the cheese occasionally with
cloth dampened in warm water temperature best for curing is from 5 degrees $F$. to 65 degrees $\mathbf{F}$., with the air as moist as possible. The cheese - English cream cheese. Pour very thick cream into a linen
bag and hang up, with a basin beneath
to catch the cellar in which the air is pure. When bag tightly and and drained off, twist the dry the curd more. After from 24 to 48 hours, the "cheese" is ready to eat,
and may be made into small moulds. Before long a recipe for French Cream
Cheese, for which rennet is used, will be

The Boy of the City. God help the boy who never sees
The butterfies, the birds, the bees,
Nor hears the nusic of the breeze When zephyrs solt are blowing.
Who cannot in sweet comfort lie Where clover blooms are thick and And hear the gentle murmur nigh
Of brooklets softly flowing God help the boy, who does not know
Where all the woodland berries Who never sees the forests glow
When leaves are rea and yellow. Whose childish feet oan ne For such a hapless boy I say
When Nature does her charms display God help the little fellow. display
-Nixon Waterman
 about?" asked her mother. "Oh, wo were discussing our kith and kin,"' re-
plied the young lady. The mother looked dubiously at her daughter, where-
upon her little brother, wishing upon her little brother, wishing to help
his sister, said, "'Yeth, they wath his sister, said, Meth, they wath,
mother. I heard 'em. Mr. Thmith asked her
You kin.

THE FARMER'S ADVOCATE
Senior Beavers' Letter Box.

OUR SENIOR BEAVERS



## A New Competition.

Dear Beavers,-How would you like to
do something nice for somebody else, fo
your next
Dear Puck and Beavers,-Surely you
must have forgotten me by this time,
must have forgotten me by this time,
can tell me what this is in the packet the bush the other day, and I through rotten stump, and went to pick it it
and there I found this grub. ${ }^{\text {Is }}$ it
grub ? I have never seen grub? I I found this grub. Is it on seen anything like
it. What it. What a lot of legs it has, and such
a hard shell, too! What doest on, leaves or insects?
FRANK MORTON

The odd-looking brown worm that you sent in the box, Frank, arrived sately,
and still alive, indeed very much One.of the men in the office downstairs got it to take to his little girl, who is ery much interested in such things. He went to get it-Mr. Grub was gene went to get it-Mr. Grub was gone !
It had crawled out, and is down there now somewhere, among the papers, it it imagine the jump one of the typewriter
girls will give if she comes upon it ?-
But it is very harmless, after all
But it is very harmless, after all. It
is a millipede, or thousand-legged worm.
iocnsionally
Sccasionally these worms feed upo
growing plants, but as a rule they live
in damp paces and feed on decaying
vegetable matter
egetable matter.
$\qquad$
Dear Puck,-As I wrote once befor and saw my letter in print I thought I
would write again. Fourth $\begin{gathered}\text { Write again. I wrote for the } \\ \text { Book this year and passed }\end{gathered}$ ruck, would you please tell me wha number I am in the Gardening Competi-
tion? I have my garden tion? I have my garden pretty well
cleaned up now, and the things are all growing fine. This spring we had had to find a lot of diferent. We birds, and tell the size of them and of about them and their nests. I enjoy natur very much. As my letter Elting long, I will close.

Your number in the Garden Competition is 21 , Elizabeth. How did you
study the birds? - By sitting very still until they came near? -or with field
glasses?

Dear Puck and Beavers, -I received my prize, which is a bird book, and am bird lover, and it is just what I want. ore this, but we have been busy with you will have to excuse me. As I am bringing home the cows to-night, I saw
hree cranes going in a south-wester hree cranes going in a south-westeriy
irection. Do you think they grating south, or is it too early? the flowers are beginning to as some Well, I think I will close to bloom is getting long. Wishing "The Farmer' Advocate" every success, I remain,
HOMER FITZGERALD. P. S.-I would like to correspond with boys of my own age, or near it-13.
It is just possible that the cranes, herons, were migrating southward at
the time when your letter was the time when your letter was written
Some of them nest as far northward Some of them nest as far northward as
Hudson's Bay. Use all your influence, $\begin{array}{ll}\text { Homer, to keep } & \text { boys from shooting } \\ \text { these fine birds. } \\ \text { They are fast becom- }\end{array}$ these fine birds. They are fast becoming extinct. Indeed, all country boys
should league together for bird-protection. A French scientist has estimated
that if all of the birds in that if all of the birds in the world
were to die out, the earth would be unwere to die out, the earth would be unyears, because of the enormous increase of insect pests. Birds eat millions of
insects. Take care of them, all you can insects. Take care of them, all you can.

Dear Puck and Beavers,-This is my first attenpt to write your Circle, but
as I have just as I have just got through reading your
letters, I could not resist the temptaI live about a mile north of St. Thomas. My father works a two-hun-
dred-acre farm. We are raising eighten dred-acre farm. We are raising eighteen
calves, which are doing very well. We also milk twenty-two cows. We sepa-
rate our milk rate our milk and sell our cream in the
city. We have just got through drawcity. We have just got through draw-
ing in seventy loads of hay, which seems ery seventy loads of hay, which seems
ery good. We have yet to take off
$\qquad$

## Will O' The Wisp

$\qquad$ In the reedy marsh below the hill, Yes, Bessie Deans entered the com
 There crisp,


 Willo-'the-Wisp so gay." Phants you grew, and how you thew

 He'light
dance
Whain on another nisht.
Whan
 Then weill watch for win in hy vectoler 15sh, at the tery latest -

[^2]The corn crop does not seem very goon ed, but is picking up since these las I will send you some riddles, Why are a rooster's feathers always
smooth? Ans.-Because he carries a Around the house, around the house, and only
wheelbarrow.
What is the nearest tie on earth to
men ? Ans.-His neck-tie. What nation is most likely to win in
the end? Ans.-Determination. the end? Ans.-Determination.
HARRY ZAVITZ (age 12, Sr. IV.). St. Thomas, Ont. Dear Puck and Beavers,-As I have read a great many interesting letters ${ }^{\text {i }}$
"The Farmer's Advocate," I thought

## 0

 "The Frarmer's Advocate" for a a numbeof years, and we would, not like to be without it. I go to school every day Our teacher's name is Miss Shewart. We all like her very much. There are
about forty pupils, going to our school I have about a quarter of a mile to go to school. We live on a farm of about
100 acres, four miles from 100 acres, four miles from Kincardine.
The railway runs through our farm. We often see the train. I will close now
wishing the Beaver Circle success. wishing the Beaver Circle success.
hope to see my letter in print. RIDDLES.
There are $t_{\text {wo }}$ sisters of equal size,
one sits inside, the other outside. Ans.one sits inside, t Kincardine, Ont. Dear Puck and Beavers,-This is my
frst letter to the Beaver Circle, although I have been a silent reader for over a year. one hundred and forty acres. I am very fond of birds. Last Tuesday when I
was in town I saw a sparrow with four legs. two slid along behind. The hind ones projected from the backbone. It was I go to school at Largie, which is
about three miles and a half from home. bout three miles and a half from home. is Miss Whittlock; she was just engaged I would like Florence J. Murray, Lake-
side, Ont., or some of the other Beavers to write to me. Well, I will close, hoping that this will
escape the w.-p. b., and wishing the
Beaver Beaver Circle every success.
AGNES KERR (age 13, Jr. IV.).

Dear Puck and Beavers,-As this is my first letter to your Circle I will not
make it long. I have three brothers, make it long. I have three brothers,
but I am the only girl. My father has
taken "The Farmer's Advocate" many taken "The Farmer's Advocate". Many
years, and we all like to read it. We
We did have a lot of sheep, but have sold
nearly all of them. We have a little
black lamb which stands up on its hind egs and eats apples off the lower
branches of the apple trees, and we have calf named Mollie. I have a pair of White rabbits, with pink eyes, and my
brother has an old pair and a lot of young ones. I would like if some of
the members of my age, 12 years, would gorrespond with me. MARION BIRCH.
Renton, Ont.

Dear Puck and Beavers, -This is my
first letter to the Beaver Circle, and first letter to the Beaver Circle, and I
would like to join it. My father has number of years, and likes it fine. getting our summer holidays now. ve a mile and a half from school.
For pets I have a dog and a calf For pets I have a dog and a calr.
I the dog Foxs I and the calf Violet. I guess I will close now, as my lette
getting rather long. Hoping it wit is getting rather long. Hoping it wil
escape the w.-p. b. Yours truly,
WALTER EVANS (age 14, Sr. IV.). ride every morning y, and I go for
I have for pets 1 started for school last May, and am going when school starts again. We
are going to have a new school-house. are going to have a new school-house.
My teacher's name is Miss Perry.
Will say good-bye to the Beavers now. wishing you every success.
RALPH
R. McLEOD. Penobsquis, N. B.

Dear Puck and Beavers,-This is the
first time I have written to your Circle first time I have written to your Circle,
and I would like to join it. My brother has taken "The Farmer's Advocate" for two years, and would not do with-
out it. I like reading the letters, and was tempted to write to you. I go to
whool nearly every day. I am in the Was tempted to write to you. I go to
school nearly every day. I amm in the
Junior Third Class. I like going to Junior Third Class. I like going to
school very much. It is a red brick uilding. I live on a farm and like it
ne. I have three sisters and one bro. her. I have a good time picking berries in summer. I guess I will close,
wishing the Beavers every success. and hoping my letter escapes the waste-pape
basket.
GERTE FELKER basket. (Age 11, Jr. III. Class) Grimsby, Ont.

Dear Puck and Beavers, - My father ha taken "The Furmer's Advocate" for

Beaver Circle Note. thrown in the weaver letters had to be because they were written on both sides of the paper. The printers can't use them very well when
written that way

## Hospitality

.
The most famous man of his age, in
his long 'oriental journeys, used to pas
 as oft as he passed by he turned in
thither to eat bread. And she said th her husband, 'Lat us make a little chamber on the wall, and let us set fo and a candlestick.' ', When this and done, the illustrious guest "turned int the chamber," to the delight of the genshowed the warmest hospitality, making no complaint as to smallness of the room or the scantiness
passing of that delighta old-time family
life calle called phase of the the
pertality, Perhaps many have been all unmindful sive flavor of life seoms lackiliar, elusmack of something hearty and whole
some and satistying is some and satisfying is gone.
Hospitality has Hospitality has given place to enter-
taining, which is a vastly different thing. tainng, which is a vastly diferent thing.
Hospitality is a perpetual charm of a enial home. Entertaining is an oventan occasional opening and decking the
house for a function-then a lapse into family solitude. Entertaining is like an electric illumination turned on for an a
brief glare and then orief glare and then turned off. Hoepp-
fality ${ }_{\text {is a }}^{\text {a }}$ kindly star shining with steady beam.
One cause of the decline of hospitality
arises from the efforts of many miser arises from the efforts of many migguided
olk to transplant it from its natural habitat to the unfriendly soil od a clab. My husband belongs to two clubs and ny son to three," said a woman recentur house any more. We invite them $t_{0}$ club instead-it is so much less bother." ess a score of advantages club may poshents and service and cuisine ; but it icular, which to right-minded in one pareighs them all it is minded people outOne charm of hospitality is that ares to be detightfully spontaneous, even rought to dinners picked up and telephone Sunday night and urged to the neighbors 'are summaple syrup: ene nelghbors are summoned by the the stage for popping corn. The person ho is afraid to be unconventional will tality. I havo often Joys of hosplome to breakfast for sausage and buckheat cakes, and no one has ever re

Where true hospitality exists every one is at ease, and therefore at his best.
The timid find their tongues and talk. Under the spell of the genial atmosphere hey even venture to be witty. "When
am at the Davenports"," sald the litthe mousy woman in gray, "I am a surprise to myself. I can talk so easily
and can always think of aly apt story. I come away so satisfied with myself, feeling I am really clever." In the praotice of successful hospitality
people are judiciously let alone. women fuss over their guests too much If they choose to talk, well; if they pre for to be silent, pray do not force them
to talk. If they want to them to go without those insistent ef forts to detain which many think a manifestation of hospitality, but which
are really a great bore, akin to the are really a great bore, akin to the
perils of blockade-running in the Civil War. formidable obstacle in the way of exercising hospitality arises from a false
notion that things are necessary, things to eat, things to look at-carpets, furniture, silver, glass. 'I can't ynvite any one until I get a new dining-room rug."
"Our parlor chairs are too shabby have any company.", "I'd like to ask

## MOLTODS NULLET BLOUR

I The purity and strength of McLeod's "JULIET" flour makes it the ideal family flour for bread and pastry baking. The finest of the wheat milled into the best of flour. A flour that produces the most wholesome of bread, with the finest richness of flavor, and is economical to use. Ask your dealer for McLeod's "JULIET" brand if you want a flour that will give you absolute satisfaction and a flour in which the quality never varies, and where it is best known is most used because .

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Some in foal. Winners at the Paris Exhibition. Stallions Some in foal. Winners at the Paris Exbibition. Stallions from 1 to 5 , greys and
blacks, with plenty of size and best quality. My shind blacks, with plenty of size and best quality. My shipment of Clydes will land
about the middle of September. These horses have all been personally selected by Mr. Elliott, and that in a guarantee
of the best. Terms to suit.
When Writing Advertisers, Please Mention "The Farmer's Advocate"


AUGUST 22, 1912
THE FARMER'S ADVOCATE

measurement, as number, giving age or



## The Fight with a Beap.


 thing heavy, but not harc, rushon soment
over the dead leaves.
He turned round
 about sixty paces distant. He looked at it in a sort of calm
stupor at irst, but the next moment he
turned ashy pale.
 "Denys !" he cried.
Denys !"
Denys whirled round.


It was a bear as big as a cart-horse.
It was tearing along with It was tearing along with its hug
head down, running on a hot scent.
The very moment he saw it. The very moment he saw it, Deny
said in a sickening whisper:
"The cub !"
Oh, the concentrated horror of that Oh, the concentrated horror of that
one word, whispered hoarsely, with dilat
ing eyes ! For in
 White Swan Yeast Cakes' RECORD
Thousands of White Swan Yeast Cake have been sold in Canada without
single complaint. Can the same be said about other brands? Sold in packages White Swan Spices \& Cereals, Lid TORONTO, ONT

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End Dawson's Golden Chaff Wizat



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## The Western Fair

LONDON'S POPULAR EXHIBITION
September 6th to 14th
This will be the banner year. Stockmen and breeders canno afford to miss the opportunity of exhibiting their stock at London. This exhibition always brings buyers. $\mathbf{\$ 2 5 , 0 0 0}$ IN PRIZES AND ATTRACTIONS Live stock parade daily.

Two speed events each day Dog Show commences Tuesday, Sept. IOth Wonderful programme of attractions twice daily. Besses O' the Barn Band, the great English musical combination. D not fail to hear them. Special railway rates
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South thereof to in Ontario AUGUST 23 rrd- From all stations North of, but not including Main Line Toronto to

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of Toronto to King ston and Renfrew,
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RIVEIRSIDE HOLATEINS Our chief sire is King Johana Korndy
nearest dams, and eight of their sisters, ave nearest dams, and eight of their sisters, ave
six past and present world's champions.
whose dam won the dairy test at Guelph tw them and out of record dams.
 "Keep aloor
a dead man. "I care not", and in a moment he had
another bolt ready, abd shot it fiercely intother bote ready, abd shot it fercely
into the beyr, screaming, "Take that !" take that ! !
Denys poured a volley of oath down He was right; the bear, finding so
 slipped growling down the tree. rending
deep furrows in it as she sliped. Gerdeep furrows in it as she slipped. Ger
ard rar back to his tree and climbed it
suitty. but while his legs were dan
But switly, But hhile his logs were dan-
gling some eieght feet tron the gling some eight feet from the ground,
the bear came rearing and struck with the bear came raxing and struck with
her fore pam, and out rew a piece of
bloody cloth trom Gerards bloody cloth trom Gerara's hoset Ho
blimbed, and climbed; and presently he heard, and climbed and presently he
here the
say. "Go out on the the air, a voice say, "Go ut on the bough He Hoikea,
and there was a masive branh before
him shooting upwards at a silight angle; him shooting upwards at a slight angle;
he threw his body across it, and by ay
series series of con
to the end.
Then he looked round panting.
The bear was mounting the eree on the
other side.
He heard her claws scrape,

 it, mount reached the the fork and passed
item. Gerard
drew reath more treat
either hearrd hime treely. The bear
 caught sight of him. She eyed him
steadily, then quietly descended to the
fork. Slowly and cautiously she stretched out a paw and tried the bow. It was
a stiff oak branch, sound as iron. In stinct taught the creature this. It
crawled carefully $\begin{aligned} & \text { out on the bough, }\end{aligned}$
 torty feet from the ground. Death be-
low.
Death moving slow but sure on low. Death moving slow but sure on
him in still more horrible torme His
hair bristect.
The sweat poured from him. He sat helpless, fascinated, tongue
tied. As the feartul monster crawled growlcoursed through his incongruous thought
the Vulvate. Margaretthe Vulgate, where it speaks of the rage
of a she bear robbed of her of a she bear robbed of her whelps-
Rome eterity.
The bear crawled an The bear crawled on. And now th
stupor of death fell on the domed man
an

 The bear sanarled at the twang, but
crawled onain the cross. bow
twanged, and the bear snarled and came
then and

 opened her jaws like a a grave, Tha bear
blood spouted from them ano
 stuck its sichles of clams deep it innot, the
wood, it toppled, its claws held firm, but its body rolled onf, and the sudden shock
ot the lirunch shook Gerard forward on
on

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

TRADE TOPIC.

## News of the Week.

General Booth, D.c.L., Oxon, orispi.
nator of the Sulvation Army, is very ill.
The art exhibit at the Canadian Nor
tional
Exhibition,
Toronto year, be exceptionally fine.

The township of Pellam, Welland c
Ont.
recently
completed
Ont, reentip complated, Welland en
year of prohibition fortieth year of prohibition.

The Provincial Health Department has
started an investigation part started an investigation into the out-
brenk of infantile paralysis in the arak of istrict. iffante paralysis in the Niag
and

The new Sultan of Morocco, Mulai
 Belfast, Ireland, is to build four new passenger liners for the Royal Mail
Packet, to be used in the Panama Canal traffic.
The liner Olympic, sister steamer cost of \$1, isoo,ooo, be renovated ot ot the amout
going to make her safer tor oceant

The son recently born to Mrs. Made Ieine Force Astor, widow of the late
John Jacob Astor, who lost his life when
the Titan the Titamic went down, is the direct
heir to a fortune of $\$ 3,000,000$

© Eingland, 9, of South Devon Flock Book the South Devon Flock Book Assocociathis office by courtesy of the Secretary House, Norfolk street, Strand, London, W. C. This Volume, neathy compilied,
contanins pedigree records of rams num-
hering bering from 745 to
locks from
to hocks from 1 to 241 . Also a list of
members of the Society
is given, total-
release of quarantine for scabies in cattle. suntea states Secretary Wilson has
Sted an order, taking effect. August 15 eleasing from quarang eliece on August 15, 15 ,
the disease known as scabies in of of
 Dakot, Nobranka, Ikansas, and rand Texas.
This action is taken as a result of the good pronress that has beent of that
the Bureun or Animal Industry made by authorities in the work of eradicating
this disense. About ten years ago, when the work
was first undertaken, scabien of catct undertaken, scabies or mango
ons prevalent in the territory est of the Mississippi River, and that
entire area was quarantined.
Portion of the territory have been released from
time to time the disease, until they were freed fron
quarantine ouly quarantine only a conpare remaing small
area, consisting of about onethird of
ard aldontana (in the north-eastern portion),
the eastern fourth of wopm then

 of Texas, and an a shaul of the in inhander exe
treme southern yart of Texas. the in-
$\qquad$
$\qquad$

AUGUST 22, 1912
THE FARMER'S ADVOCATE.
1477
GossIp.
 will speak in Ponteam,
 Aspociations, and ilike organiations.

 loge and there has been much interest
in Canada ever since, thoush he has not din canada over since, rhough
had opportunity
to returfo
the london clydesdale sale. At the auction sale at London, Ont.

 was a very creditathe one in in ooorering ing. Thouggh no taney trey priciend breed.


##  SAMPLE <br> PAYS FREIGHT <br> Hiscooos

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 Great Cut in Prices, if You Order Now


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advocate advertisements pay


## (e)


 ach Inital countr for one word and Agured for
dvertisement inserted tor lees than
do $\mathrm{C}^{\mathrm{HOlCE}} 100$ acre farm frr sale. ${ }^{\text {sale. }}$ All good $\mathrm{F}^{\mathrm{OR} \text { SALE-160 acre bush farm Nothern Ontario }}$
 $\mathrm{H}^{\mathrm{OR}}$ Averag- pairy farm where dairying pay

 $\mathbf{F}^{\text {ARM tor Sale }}$ under good acres rich clay, 190 acre

 $\mathrm{H}^{\text {ARMS }}$ for Sale- Improved Wellington Coin $\frac{\text { gation or expense. Jo eos } \& \text { Joo inston, Guelph. }}{()^{N} \text { SHARES }}$





 150 drained soil, clay and sandy loam, with


 o all places of business. This home has the advan-
agee or orral mail delivery and tomg distance tele.
phone. The owner wishes to retire.




## Labor-Saving and Money-Making Equipment

ALOT HAS BEEN SAID about the scarcity of good farm help, and the difficulty our farmers have of keeping their sons on the farm. Well, most farmers have gone through the mill themselves, and can perhaps sympathize with the boy who seeks to get away from the drudgery that he imagines farm life has in store for him.


UT WHY DRUDGERY? ABOUT the worst back-breaking work on a fashioned methods. It certainly is a job any oldPp/a $\quad \begin{gathered}\text { Would like to pass an. } \\ \text { But ortunately modern } \\ \text { methods with moder }\end{gathered}$ machinery have tokern
the drudgery out of the drudgery out
stablecleaning. Nowadays, you fill
a Louden LLitor Carrier

- raise it by Criph - raisen it by a lirier
pull on a chaint
Light quickly to wherever you want it, Ast anch
hard work for you in that, is there? hard work for you in that, is there?
 than solid manure. Are you losing this $50 \%$ ?

A Louden Litter Carrier will save it for you-
and not only prevent the waste, but will make and not only prevent the waste, but will make
stable-cleaning an easy "chore,"
The Louden swinging equipment is an ideal
way of disposing of manure way of orsposing of manure. With it you get a
twenty or a thity foot swing, and can dump the



DISTINCT LOUDEN FEATURE is that you can run the loaded swinging at any angle, You to por while
straighten the track enc to n the track each load.
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over it while at an angle.
$\square$ HE SUN - SHINY SIDE OF farming is the money-making side. Steel Sanitary Stalls and Stanchions for cows. Now there is no doubt that a contented, comfort able, dreamy-eyed cow will give more milk than
one housed in unsanitary, badly-ventilated thar ters, where it has little freedom and comfort And when you are thinking of cow profits, you
must thin


The most successful Farmers and Dairymen bave thought of these things, and have equipped
their stables Steel Stails, Stath Cement Floors, Mangers,
and Litter, Stans, and Carriers for Feed and Litter. Stables so, fitted arre arsting Feed
ventilated and sanitary. Light and nir well ventiated and sanitary. Light and air with
their germ-destroy ing powers fill every part of
the stable the stable. Under sucwers ilil every part of
comfortable and deean, whuch conditions cows are comfortable and clean, which consequently means
more and better milk, and this in biger profits.


THE SERVICES OF OUR EXPERIENCED BARN ARCHITECT ARE AT YOUR
$T^{\text {Hig }}$ Louden Machinery Co.

$S^{T}$TANCHIONS. Louden Stanchions
are perfect stan-chions-perfect in contrua-
tion- simple to lock and
lock


HOW DO YOU FEED YOUR - cattle? Do you use the old-time their food in the feed-way, and steal each other's
fodder- revent fodder-preventing the keeping of accurate re-
cords of feed costs and resuls?


Galvanized Stee Mangers are They are convenient, and prevent feed-waste.
They They keep the stable tidy, too. The bottom is
of cement, and the steel lowered to allow the the trough to be thersed and
cleaned. The trough can also be thoroughy cleaned. The trough can also be used for
watering purposes.
 time and temper over faulty barndoor hangers and
tracks. The Loude tracks. The Louden
Hangers are made Mangers are max
in fye differen
st 1 les styles, to suit
various conditions
We recommend Wo recommend
Prouf en's BirdProof Hanger as
illustrated. illustrated. It is a hanger
that gives perfect
service all
 runs e a sit alyays
cannot ter cannot get out of
order.

nesting birds or transed in any way-either b

AUSEFUL BOOK TO HAVE Every farmer can find something useful in our book "Perfect Barn Equipments. It illustrates and describes many money-making about which a fevices,
 COMMAND, FREE FOR TE ASKING. TELL US WECT ARE AT YOUR

Dept. 11 - GUELPH, Ont.


$\mathrm{N}^{\circ}$O FARMER who has used Canada Cement asks that question, because his first trial answered it to his complete satisfaction. Yet it is only natural that a farmer who has never used concrete-perhaps yourselfshould require convincing reasons before deciding to use it himself.

If we knew where you lived, and knew your name and the names of your neighbors, we could tell you of many men in your own locality who would be glad to tell why they are using Canada Cement. Since that is impossible. this advertisement will try to give you an answer to your question.
"What is Concrete?"

$C^{\circ}$NCRETE is an artificial stone. It is a mixture of cement, sand and stone, The proportions of the various materials vary according to the purpose for which the


THE milings and placing of concrete is elaborate tools are needed.
concrete is to be used. This mixture hardens into an artificial stone. This hardening process is rapid at first, and in a few days the
mixture is as hard as rock mixture is as hard as rock. After that, time and weather, instead of making it crumble,
actually make it stronger. - Since sfone, sand and
on nearly every farm thravel may be found is that required for cement. Cement forms only a small part of finished concrete, and this expense is relatively small.
Concrete may be mixed and placed at any
season of the yer Season of the year (in extremely cold weather
certain precautionsmustbeol certain precautions must beobserved) by your-
 you to take advantage
of dull seaof dull sea-
sons, when sons, when
you would you would
otherwise otherwise
be idle. The mixing and plac-
CONCRETE is the ideal material ple, and fire for barns and sllos. Belns full direcfire, wind and weather proof, it tions are
protects the contents perfectly in the book which we will send you free.
"What Can I Use Concrete For ?"
CONCRETE can be used for all kinds of improvements. By having a small able to tupply of cement many an otherwise idle afternoon to good account by putting a new step on the porch, or making a few fence posts,
or repairing an old foundation wall. It is mistake to suppose that you have to be ready for a new barn or silo to be interested in concrete. Besides, it is just as well to small jamiliar with the use of concrete on small jobs, for then you will be better able to handle big jobs later on.
First cost is last cost when you build of concrete. Concrete improvements never need to be repaired. They are there to stay, and every dollar put into them adds several dollars to the cash value of your farm, and lasting material improvements of this evercost than if they were huall cheaper in first cost of lumber is constantly increasi. The it will not be many years before its and will be prohibitive.

YOU should use concrete, because by so dolng
you can make your farm more attractlve more convenlent, more proftable attractive,
and more valuable

"Why Should I Use Canada Cement?" $W^{\text {E }}$ were the first cement company to investigate Whe thermer's needs, and to point out to the money by using concrete. We conducted an ex-
haustive investigation into the subject learned the difficulties they were likely to encounter, and how to vercome them, and published a book, "What the Farmer Can Do With Concrete," containing all We have made a special effort to give the farm. ers of Canada not only the best cement that can be

CANADA CEMENT COMPANY, LTD. 550 Herald Building. Montreal
Please send me, free, your book: "What
the Farmer Can Do With Concrete," "nd full the Farmer Can Do With Concrete," and full
particulars of the 1912 Cash Prize Contest.

My name is
Address
made, but also every possible assistance in the use
of concrete. OUur free Farmers' Information Bureau
is at the service of every farmer in Canada. All questions con-
cerning the use
of concrete are are
ans wered at
once, and the the of concrete are
ans wered at
once, and the the
Bureau is at Bureau is al
ways glad to
receive suggestions from farmers who have discovered new
uses for cement. uses for cement.
Last year we onducted we ${ }_{\text {Prize }}^{3600}$ Cons h in which farmProvince every second contest, This s'in hanss in front of near. which three the best cement is sold. prizes are offered, has been announced for this You can easily see why a company that is de in better position the farmers' needs is tory service. Canada Cement will always give you
satisfactory results. Every bag and go the most undergo the most rigid leaving the factory.

YoU should use "CANADA" Cement because lis makers offer you not only the best cement made, but also careful, consclentlous, personal assistance In maklin use of it


- $\begin{aligned} & \text { you haven't received a copy of "What the } \\ & \text { Farmer Can Do With } \\ & \text { at once }\end{aligned}$ at once. It will be sent absolutely free, without obligating you in any way. Use a post, card or
clip out the coupon. We will also send particulars of the 1912 Cash Prize Contest. Address:


## Canada Cement Company LIMITEED

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BER 18th, 1912
for young men who intend to follow practical farming.
A FOUR-YEARS' COURSE leading to the degree of B.S.A., conferred
by Toronto University,
For the College Calendar, giving full information, apply to
G. C. GREFLMAN, B.S.A., LL.D., President GUELPH, ONTARIO


## O.K. CANADIAN POTATO DIGGER

"Money In Potatoes," is invaluable to farmers. Haven't you a copy of this book? Write at once - we'll send one free-also Catalogue

## Camadian Potato Machinery

 Co. Limited., Galt, Ont.You wouldn't think of getting your potato field ready for
planting by using a spade and hand rake. You use a plow and harrow-and let the horses do the hard work
Let the O.K. Canadian Potato DIGGER and the horses dig your potatoes this year. All you do is sit on the machine and drive. The O. K. Canadian digs the potatoes - separates roots cleans off the dirt-and deposits the potatoes in rows behind the machine. This machine is as great a time-saver and worksaver as the reaper and binder. O. K. Canadian is easily drawn by two horses. If you have a big crop of potatoes, write us at once about getting an $\mathrm{O} . \mathrm{K}$. Canadian - the digger that has won first prize wherever exhibited.


8, 12 and" 16 H.P Engines Mounted On All Steel Truck

## "Bull Dog" Gasoline Engines




BATES \& EDMONDS MOTOR CO., Lansing, Michigan A. r. williams machinery Co., LTo., Toronto, Ont, st. John, N. b.

Questions and answers Miscellaneous.
WORMSEED MUSTARD Inclosed find a weed that I have found
in my fall wheat, and also in spring


 ita a bad weed, and the best way to
it. k .
.
 this weed are much shorter lived than
those of wild mustard, but they are brit-
ter, and give a very bad taver to grain ter, and give a very lad flavor to grain
or chop containing them often so bad
that stock refuse to eat it. The weed that stock refuse to eat it. The weed
yields to thorough cultivation, so a hoed yields to thorough cultivation, so a hoed
crop will usuall subue it. A short
rotation, with clean cultivation, keeps it in check.
EVENING PRIMIROSE-HENS TRESPASSING. 1. Inclosed find weed which is becon ing very plentiful in this locality.
it a hard weed to get out, and what
its name its name
2. Neig 2. Neighbor's hens and chickens are a
trouble to my crop. how can I enforce
the law to truble to my crop. how can I enforce
the law to compel them to keep them
at home at home after giving notice? W. J. T. Ans.-1. The specimen is the commo evening, primrose (Oenothera biennis).
This weed is becoming quite common in in meadows, the seed being an impurit
in grass and clover seed in grass and clover seed. If, not to to
thick, spud it out, or cut it off below thick, spud it out, or cut it off below
the crown early in the season. It is
worst in clover fields kept for seed worst in clover fields kept for seed. It
yields to thorough cultivation. A hoed
crod crop will get rid of it.
2. Ask him again to look after them, and if he does not he is liable for the
damage done.
RYE AND HAIRY VETCHES. 1. When is the best time to sow rye
and how much per acre? 2. Is it advisable, from a financia
point of view, to sow hairy vetches with the rye, and how much of each per acre?
3. Can they be separated 3. Can they be separated by running
them. through a fanning mill? Ans.-1. A bushel and a half per
acre is a good seeding tember. Some prefer the early part of
the month Sep whole month, others later, but on the
whole earlier should prove the better. This is difficult to answer. Hairy
2. . Thes
vetches are erpensiver vetches are expensive, the seed being
about $\$ 5$ per bushel.
They are some
The times sown with rye for seed produc
tion. The rye tends are some from the ground and to enablees the vines o produce more seed. They are some
times mixed with reat tion of fodder. sow about one produc
tionshe
per acre. They have not grown in
popularity popularity in this country, gand it
doubtful whether they would prove profitable under conditions indicated. very
3. A good fanning raill should make separation between rye and vetches. Miscellaneous queries. 1. What is the sire of "Apukwa"
$(14567)$, and "Auchenflower"? 2. Would you
Sessaghmore",
$\left.|7066|\right|^{\text {give }}$ the pedigree
$(12355)$ o
$\qquad$ 4. What solution could I put apples
in to make them keep their color and
reshness? If they were put in formnwould they need to stay in it? how long
W. S.

66Balzer"9 Wind Eingines Are built for hard, steady work,
and keep at it year in


T is the reputation which "BAKER" Wind En-
gines the ef fairly won and steadily hedd ever
since their first appearance on the market, 30 Ans,-1. Apuhwa (14.567), sire Hiawa-
tha (10067), dam by Royal Favourite
(10630). Auchenforver (12000), sire
Montrave Mac






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Windsor Cheese Salt will make money for you, by making better money for you, by making better
cheese for you. Windsor Cheese Salt improves both the llavor and the keeping quality

Windsor Cheese Salt enables you to salt the curd just right, evenly-stays in the curd-and because it is pure and clean and sood.
Windsor Cheese Salt is cheap, because, being ALL SALT, it goes
further.
Make your cheese bring you
better prices by using


QUESTIONS AND ANSWERS. Miscellaneous

GOOD SPECTMENS NECESSARY Muring this season scarcely a da
passes without one or more specimens hoxious weeds being sent to this offlice
for identification. We are hese, and pleased to help our subscrib ers in any way possible in identifcatio
and means of eradication of weeds. Man and means of eradication of weeds. Many
of the plants sent in are recent introductions from other countries, and the
dififerent species of so many of our comdifferent species of so many of our com-
moner weeds are so nearly identical that it becomes necessary to apply the botan
nical key in order to be sure of the nical key in order to be sure of the
species. Now, to do this, it is neces sary to have a perfect specimen; that is an entire plant-flower, stem, leaf an
root. Not only must the entire plant be sent, but it must be packed so as to reach us in good condition: It only re quires a very small pasteboard box, and
that the plant be wrapped in cloth or some dant be wrapped in damp
fresh wadding to keep it tresh u util it arrives. Wadabg to keep
carefully when each plant carefully when more than one species is
sent, and do not neglect sent, and do not neglect to give an ac
count of the conditions under which
is is growing. A little care in this direc tion will aid us greatly, and will in-
sure answers in shorter sure answers in shorter time
POISON IVY. Have a few stalks of poison ivy
Would like to know how to get rid of them without getting poisoned. Ans.-Some persons are immune to poison of this plant, and they could dig
them out and burn them them out and burn them. A half a tea-
spoonful of concentrated sulphuric applied to the stem every two or three weeks in spring, when the plant is grow-
ing, will kill it. Care must be taken to keep the acid away from the clothes or
the skin as it non-volatile oil, burns. The can only poison is a a a active
when in contact.
wt it when in contact. It is insoluble in
water, and thus water will not wash it
from the skin. from the skin. Alcohol or sugar of
lead will remove it. Unless the not touch the skin, no poison is likely to BUCKHORN.
I have inclosed the stem and lear of a
plant. I would like to know the ne of this plant, and is it would render clover unfit for seed, as I have a field
of clover with a lot of this plant fin it Ans.-The L. W. L. called buckhorn, English plantain, ribwort. This is a common weed in
clover fields, as its seed is a common clover fields, as its seed is a common carefully avoided. No clover seed containing the seed of this weed should be
sown. It is difficult to sown. It is difficult to separate it from
clover seed, and fields badly should not be saved for seed. Where only a few plants are present, they may
be spudded or pulled out. A hoed cro suppresses the weed, and short rotation
of crops is a great help in keeping of crops is a great help in keeping
down. In clover is where it gives mos

INFECTIOUS OPHTHALMIA I have a herd of steers which I an
feeding off the grass. They get plenty of salt and water of good quality, an
all the timothy they can eat. Five the steers have each got a sore eye
three of them are blind. and the othe The eye begins to run water, and in wad inflamed, and the sight turns white Please tell me the name of the trouble
also the cause and cure for same. Ans.-This is an infectious form of oph All affected animals should be isolated
and kept in a well-ventilated but alost dark building. Each steer should ne ounce ginger. Thir eyes should be
ell bathed with warm water three
mes daily, and a frow drops of the fol-
mwing lotion put Wating lotion put into each eye atter
bathing, viz. 10 \&rains sulphate of zinc.
on drops fluid extract of belladonna, and


CREAM SEPARATOR, and learn why it has earned the title of the "World's Greatest Separator.

Toronto, Aus. 24 to Sept. 9.
Quebec, Aus 24 to Sept. 3.
Sherbrooke, Aus 31 to Sept. 7.
London, Sept. 6 to 14.
Renfrew, Sept. 18 to 20
Hallfax, Sept. II to" 19.
St. John, N. B. , Sept. 2 to 7 Ottawa, Sept 5 to I6.

$$
\text { I., Sept. } 4 \text { to } 7 .
$$

In the meantime if might be well to get a STANDARD catalogue and learn something about the machine you are going to see. Drop us a post card to-day.
The Renfrew Machinery Co., Ltd. Head Office and Works: RENFREW, ONT Sales Branches at Winnipes and Sussex.


Here's a big money-making proposition for the live man any-
where who is in earnest. Drilled wells everywhere in demand Many drillers make $\$ 10$ to $\$ 20$ a day. This machine drills either deep or shallow wells in any kind of soil or roct. One man can handle it-three right-hand levers complete every ONTARIO WIND ENGINE AND PUMP COMPANY, LIMITED Winnipes TORONTO

Calgary

POLES OF STERLING QUALITY Michigan Whie Cedar Telephone Poles
W. C. STERLING \& SON COMPANY Older Cedie Pole Fim in Brisien monroe michican

ORMSBY GRANGE STOCK FARM, Ormetown, P, Que. My tall importation, which will be the largest yet made by me, will be personally selected, will arrive
last weet and reasonable prices. Wait for them if you want good ones. D, MoEach pan.

## 

 John A. Boas \& Son, Bay View Farm, Queensville, Ont.

MT. VICTORIA STOCK FARM, Hudson Heights, P, Q We have some very choice young stock for sale, both sexes. Clydesdales and Hackneys
from champion sires and well bred dams, at reasonable T. B. MACAULAY, Prop.

E, WATSON, Mgr.
BLAIRGOWRIE IS OFFERING AT PRESENT:





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persistently, this peril will be tre3) IV至

THEBISSELL
DISC HARROW
will do a better day's work for
you tested in the field alonsside
you tested in the field alongside
any other. We know the Bissell any other. We know the Bissell
will outclass the others, but we will outcass the ot see the Bissell
want you to
at work. But first
SK $\begin{aligned} & \text { ask Dept. W to } \\ & \text { mail you our Disc } \\ & \text { Harrow Catalog. }\end{aligned}$
Then Harrow Catalog.

Aberdeen-Angus - A tee oule io soul yovi Walter Hall, Washington, Ont.
Mike Hogan had been a laborer, but he
received a large leg
family put on a great, deal of style the
endeavored to endeavored to forget Mike's humble be
ginning. Finally he died, and at the
funeral many beautiful foral tributes were received from his sorrowing friends.
in looking at them the dried her tears and glared angrily ${ }^{\text {anchor of flowers. }}$ "What's the matter ?" ." sked a friend "What Oith want to know," said the be
reaved wife. in 0

## HAD DYSPEPSIA

 FOR TEN YEARSCOULD NOT KEEP ANYTHING ON HER STOMACH

Dyspepsia is caused by poor digestion, and to get rid of this terrible affliction, it is necessary to place the stomach in a dood condition. For this purpose Burlock Blood Bitters has no equal.
Mrs. Norman A. MacLeod, Port Bevis, N.S., writes:- "For the last ten years I suffered dreadfully with dyspepsia, and I I tried several kinds of medicines, but none of them seemed or medrines, but At last a friend advised me to try Burdock Blood Bitters, which I did, and after using five bottles I was completely cured I would advise any one troubled with stomach trouble to use B.B.B. I cannot recommend it too highly."
Burdock Blood Bitters is manufactured only by The T. Milburn Co.,

QUESTIONS AND ANSWERS Miscellaneous.
butter from butter-fat

 Ans. -There is no absolute proportion,
and, in the nature of the case, there can be none. Assuming average conditions
the overrun should be in the neighbren the overrun should be in the neighbor-
hood of one-sixth.. If it were so, the
amount of butter amount of butter made from the the 30
pounds of butter-fat contained in the
hundred pornder hundred
pounds. LIGHTNING RODS-BINDWEED. 1. In erecting lightning rods, what
would you recommend for the rod
to top of the barn, and how would you
connect it to the wire which runs to the
ground 2. I (anclose also the blossom of a
plant. © Can you tell me whether it is
bindweed or youg bindweed or Virginia creeper? J. H. C. Ans.-1. We presume you are erecting
homemade elightning rods. Make the up-
rights of the same material
rod rights of the same material as the main
rod. Use soft galvanized No. 9 wire,
nine strands. Set a heavy wasgo
conver for greasing. Men Mesure out the neel
lengede
length tor the main rod and uprights
and atach one end of the wires to
firmly - driven stake firmly-driven end of the wires to a and the other end
each wire to a spoke in the whe Turn the wheel until the cable is twist-
ed. Uprights should be about five feet
high, out at the top. To make these length of six and one-hale feet should be cut a foot and one-half from the end. The bend is opened out and securely wound
around the tachment to it. To hold the points up.
right, get the wacksmith right, get the blacksmith to make fo
each an iron tripod.
2. The blossom is thet
$\qquad$

## Veterinary

APOPLEXY-OPHTHALMIA. 1. Sow, in good condition, was chased
y a dog for about 20 rods, when she 2. Cows haver, forl down, and died.
2. Coyes. One or two nd seem quite painful. $\quad$ Lhe water,
L. H. Ans. - 1. She died from cerebral apo-
dexy, caused by over-exertion. cases, death takes place so quickly ther 1is no time for treatment.
2. This is infectious ophthalmia. Iso ste the diseased in a partially-darkene
stable, well ventilated, but excluded from drafts. Give a laxative of 1 lb. Epsom
salts and salts and 1 ounce ginger to each. Bathe
the eyes well with hot water three times daily, and after bathing put a feew drops
of the following lotion into each eye N.: Sulphate of zinc, 10 grains; fluid
extract of belladonna, 20 drops; distilled DIARRHEA
Mare, fed on hay and shorts, has a foal four weeks old. The foal takes
diarrhea frequently, and eats horse's droppings. We are able to check the
diarrhea, but it recurs.
C. R. C. Ans.-The feeding of shorts to the mare
tends to cause diarrhea in the foal, as tends to cause diarrhea in the foal, as
also does the indulgence to the abnormal
appetite noted. The former can be removed by feding, oats instead of be re
morts;
the latter can be prevented only by careful watching. This can be done by al-
lowing the foal with the dam or othe
horses only while lowng
horses
ting it
by its its own fuces. The diarhhea can be
checked by giving 40 drops laudanum in
a little of the dam's milk every a little of the dam's milk every four
hours until it ceases. The addition of give good results. The only means of
checking the habit of eating faces is to
keep it away fron vised, or devise other means of making
its indulgence impossible. $A$ inuzle
might be worn, and removed at intervals
mit


## Woman's Rights

It is your inalienable right to demand in a rangeEconomy, Promptness and Satisfaction. It is your privilege to expect the same attention, progress and efficiency in the things you use in your daily work as have been brought about in other and often less important lines of endeavour.

The Gurney-Oxford is the foremost example of cooking efficioncy.
The Gurney Economizer regulates all the drafts by lifting or dropping one small lever. It keeps the fire alive for hours with practically no coal consumption. It saves 1 ton of coal in 6. The Gurney Economizer is found only on the Gurney-Oxford range.
The Gurney-Oxford Oven is absolutely and always heated the same on all sides and in all corners because the heat is evenly distributed.
This is a sure and unfailing guarantee that whatever comes out of the Gurney-Oxford Oven is crisp and light and delicious-this is the final test and the point most often advanced by those who cook on a GurneyOxford, those who believe it is woman's right and privilege to have in her kitchen the labor, time and money saving principles embodied in the GurneyOxford.

The Gurney Foundry Co. Limited TORONTO - CANADA
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 SHORTHORNS AND GIYDESDAIES write us for what you bequire.
W. G. PETTTIT \& SONS, FREEMAN, ONT. Burlington Jct., G. T. R.

Please Mentlon The Advocate


WLLLOW BANK STOCK FARM Shorthorns and Leicesters

1854 Maple Lodge Stock Farm 1912 Have some SHORTHORN HEIFERS two years
old from cows giving 50 pound milk per day, and
in calf calf to my stock bull, Senator Lavender, and Grand young LEICEsTERS trom imp. Wooler of
Sandy Knowe, chamiun at Toroto, and imp.
Roval Conan A. W. SMITH, MAPLE LODGE, ONTARIO


Lump Rock Salt, $\$ 10.00$ tor ton lots. f.o.b. Toroate
 SPRING VALLEY SHORTHORNS Herd headed by the two imported bulls, Newton
Ringmeader, $=3783=$ and Scotion Pride $=36100$.
The females
 rpices. Telephone
KYLE BROS.
"Tho Manor" Scotch Shorthorns


J. T. GIBSON, DENFIELD, ONTARIO OAKLAND SHORTHORNSI

 JOHN MLDER \& SON, HBNSALL, ONTARIO Fletcher's Shonthorns
 Geo, D. Fletcher $\begin{gathered}\text { Erin Sta., } \\ \text { B. P. P. R. }\end{gathered}$
Shorthorns of Show Calibre
 Geo, Gier \& Son, Grand Valley,Ont. Shorthorns a very choice-Am now of offering
 ISRAEL GROFF, Elmira Ont.

QUESTIONS AND ANSWERS. Miscellaneous.

ANOTHER PLANK - FRAME As I am preparing to build a barn,
and as timber is very scarce and costl in our part of the country, thought I would build a plank-frame. Our framers
here have never had building plank-frames.
intend to have for experience is in intend to have for my job, says he
thinks he could do it if he had the num
俍 ber of pieces and the length, and wher they were to go. My barn will be 50 .
70 feet, 20 posts, hip 70 feet, 20 posts, hip roof. Our mill men charge about $\$ 30$ per thousand for
square timber.
G. S. W. Ans.-Owing to the dificulty in getting
long planks, I have not been recomlong planks, I have not been recom-
mending barns being built over 16 feet
high mending barns being built over 16 feet
high in the side wall, and so I am giving you a list of material for one $50-2$ $70 \times 16$ feet, and it you find that you
can procure the planks of a suitable can procure the planks of a suitable
length, you can add 4 feet on to all the lengt, you cert an
vertical timbers, and make your barn 20
20 feet high. However, I think that one built with a gambrel roof, will hold
plenty if the walls are 16 feet hinh plenty if the walls are 16 feet high.
Possibly a few suggestions on the terials to use may be helpful, and in
this direction this direction I would suggest, if you
use two-ply floor, to over the first, and then use 1 -inch strips on 24 -inch centres between this and the second, so an air space is provided
which prevents the moist air in the which prevents the moist air in the
stable below from condensing on the ceiling. The covering for the walls of the barn
may be corrugated may be corrugated iron, and I would
strongly recommend this for the rold If you use any cupalos, set one at 17 feet 9 inches from each end, to give a proper appearance to the roof.
In the frame, use 6 bents on about 14 foot centres, and provide the following
material for a $50 \times 70 \times 16$-foot S. Posts-10 One End Bent.
S. Posts-10 pieces $2 \times 12$ in. $\times 16 \mathrm{ft}$.
T. Purlin posts -1 pieces
T. Purlin posts- 4 pieces $2 \times 12 \mathrm{in}$.
31. ft . B ins.
U. Cross
sills -4
${ }^{25} \mathrm{ft}$ v. Beams- 4 pieces $2 \times 8 \mathrm{in} \times 25 \mathrm{tt}$ W. Beam stiffeners -1 piece $2 \times 10$ in 10 . Post stiffeners -3 pieces $3 \times 6$ in. $x$
16 it. Y. Purlin brace-2 pieces $2 \times 8$ in. $x$ X . Gable stiffeners-2 pieces $2 \times 10 \mathrm{in}$. Z. End girths-20 pieces $2 \times 6$ in. x Y. 1. End braces-2 pieces $2 \times 6$ in. x
20 ft . Z 1. Gable girths-4 pieces $2 \times 6$ in. $x$

 26 tit) Post fillers-3 pieces $2 \times 4 \mathrm{in} . \times$


## -

A. Side post- -4 pieces $2 \times 12 \times 16 \mathrm{ft}$ Root supports-2 pieces $2 \times 12 \times 3$ Sub. supports-2 piecess $2 \times 6$ in. 2 Struts -4 pieces $2 \times 4$ in. $\times 4$ th Main ties-2 pireces $2 \times 8$ in. $\times 5$ th
 Collar

 N 4
$\qquad$
$\qquad$

## Raise a big crop of GOOD wheat



WHY be satisfied with 15 or 20 bushels per acre when you can double the crop if you try? Those who use the A. A. C. Co. fertilizers are harvesting large crops of first quality A-1 wheat, and if you are not yet acquainted with the merits of these fertilizers it will pay you to investigate them. To ripen large crops of early plump grain requires a large amount of available phosphoric acid derived from the best sources.

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BONE BLACK FERTILIZERS are well known crop producers and every analysis is guar-
anteed to be as represented. They are easily applied be-
cause they are so finely ground. They can be sown with grain drill before planting or scattered by hand from the wagon if you have no drill, and then harrowed in
At Dashwood, Ontario, Louis Walper says: "I had one
of the biggest crops ever seen on this farm, following the At Thetford, Ontario, Wilson Bros., say: "We are well atisfied that it does not pay to sow wheat without them' sow a piece without fertilizer and the difference is so great am fully convinced it does not pay me to sow wheat withAt Arkona, Ontario, Mr. J. A. Gordon, says: "I have
used 'HOMESTEAD' fertilizer about five years. year I shut it off once across the field and my meighbor first
he could see that strin 8 rods he could see that strip 8 rods away; and it could be seen
for two years afterward in the meadow, so I think it pays
all richt,
Consult Consult our nearest local agent for prices and terms,
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you free you free, postage paid, a 52 page book on Fertilizers mand
Dr. Widtsoe's article "He Dr. Widtsoe's article on "How to Fight Drought with (
we want agents for unoccupied territory
The American Agricultural Chemical Co.
Michigan Carbon Works, Detroit, Mich


# SHEOR'THIORNN <br> omething nice in heifers. Catalogue of herd and with H. CAPGILI SON Pimals on application. <br> $$
\begin{aligned} & \text { SON, Propriefort, Cargill, Onto, Bruce Co. } \\ & \text { John CLANCY, Managet, } \end{aligned}
$$ <br>  

 Sill
 Scoth Sille S, STOUFFVILLE ONTARIO


SALEM SHORTHORNS

Balaphorene A. c. Jerseys ${ }^{-1 \text { Rounde }}$



## in $4 \pi^{2}$

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 IE IIIustrated descriptive bookloti HOLSTBIN-FRIESIAN ASSO.

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OonRO \&. LAWLESS, "EImdale Farm" Thorold, intarlo

BMINSTERFARM Hirs YORKSHIRES of both sexes, and



The Maples Holstein Herd fiers a splendid lot of bull calves, all sined by Prince
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Maple Grove Holsteins Herd headed Hengerveld, the greatest 30 lbs . bey king tytur-bred
bull of tbe reed in this country. For stock of this
kind, address. h. BOLIERT, Tavistock, R. R. No 5, Ontario Maple Line $\begin{gathered}\text { Holstelns and Yorkshires- } \\ \text { Herd headed by } \\ \text { Homestead }\end{gathered}$
 A. BRYANT, Middlesex Co., Calrngorm, Ont hey say you used to be one of th thaplain sadly. "Yes," replied Simon,
he lag, as he thumped the iron bars,
after the performance. He gave a marvellous performance
could tell blindfolded what card you drew hand and pack, could hold you by the lind rings and pins hidden in impossible stood in the lobby at the cloak-roen


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Mr. W. Moore, 132 Lisgar St., Toronto, Ont., writes:-"After having been troubled with indigestion, sour stomach, ma severe headaches for over a Jear, Pills, One vial greatly benefitted my case, and three vials completely cured me. I can heartily recommend them to any one suffering from stomach or liver trouble.e ${ }^{2}$ Milburn's Laxa-Liver Pills stimulate the sluggish liver, clean the coated
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$\$ 1.00$, at all dealers, or mailed direct on receipt of price by The T. Milburr Co.,
Limited, Toronto, Ont.

## QUESTIONS AND ANSWER

 Miscellaneous.bent and multiply each item for one in-
terior bent by 4 to get amount require for that number of bents.
I am giving the bill in this way t
help other readers who make a bill of material for a barn wit
a different numer may
a different number of interior bents
The bill of material for girths and
plates is not necessary formen Can make this up, the lengthy carpenter
distance from centre the distance from centre to centre of bents
Huntingdon Co., Que. Would INSURANCE.
paper, the safest insurance through your tarmers to insure their buildings in. Ans.-Such a question is impossible answer through these columns. Ther
are dozens of safe and reliable fire in surance companies operating in Canada
and besides our advertising columns ar Head by

DUMB WAITER
Would you please give me a descrip
tion and tell how to build the improved dumb waiter? A. P. F.
Ans.-We are not in a position to state Which is the best dumb waiter made simpler it is the better, as the more
complicated forms sometimes give trou satisfactory dumb waiters installed are
invited to describe them through these sorumns.
SOFHELLED EGGS Kindly explain cause of a hen laying
soft-shelled eggs at this season, with large ramble. D. M amined, eggs will be found in nearly all
stages of development, from the size a pea, and smaller, up to mature size.
Soft-shelled egrgs are sometimes over-fat condition of the hens is a very
common cause, but perhans mon one still is inability to retain the
egg until it is fully developed. in other words, simply premature la.
ing, caused very often by the hen temporarily weak. Do not feed on too
stimulating food, and keep the hen stimulating food, and keep the hen quie

HERNIA IN COLT
has had a colt now sill rupture weeks old which mine since birth. Navel healed, and colt did well.
There is a break in inside lining about size of a penny.

1. Can I put on a truss to cure it?
2. Would a clamp be better? T skin is loose around navel. Lump
now about size of a small han, Ans.-In most cases nature effects. cure of umbilical hernia in foals. Where
this does not appear to be taking phace and the enlargement is increasing i
and
size, probably the safest mode of treat ment is by a truss. Some veterinar
practitioners have trusses made for th

head, consigned to T. H. Hassard,

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whose dam is a daughter of Pontiac Korndyke and

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 d. M. Watt, st. louis station, que, AYRSHIRES FOR SALE

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 FIGH-CLASS AYRSHIRES



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 WM. Cooper a MEPMEWS A. TOROWTO
Southdown Sheep


 ROBT. MCEWEN, Alloway Lodge Stock Farm
Tramp-Wunst I wuz so hungry I ate

| Tramp |
| :--- |
| house |
| N. .5. |

Tramp-No'm; it wuz fine; it wuz
CLEAN HANDS


15c a Tin.
 Ofiniviri
$\xlongequal{\begin{array}{l}\text { leaf, } \\ \text { roots } \\ \text { is ov } \\ \text { rom } \\ \text { and }\end{array}}$














 What are the enclosed. pion and knotweed.
should be are bladder cam.
Readers
generally formed as to the appearance andy well in-
acter of bladder campion. It has been Irequently described in these columns
and it is is anturtun
 priveuous and troublesome to eradicat
when established, that many of ther
must must know it well by observation.
gets its name from the bladder ering of the seed capsules which succeo Che rather pretty white flowers. The
plant is smooth, branching, with site, pointed leaves, arising
ioints branching, and deeply
ennial
penetrating. jeronnial root, and bears numerous seed

having easier than cure. Gri frevention | ars |
| :--- |
| sho |



## numerous oo the oin

ceived enougher plant, we have not
which which one of three prairie knotweeds
is. These are lwith seeds are rine wiry-stemmed plants,
wing those of the false
buckwheat, or bind weel, common in the
bin grain fields. The treat common that in then
up such.
 three weeds. What are the names of the inclosed
plants, and are any of them bad weeds? No. 1, apparently of them bad weeds?
is the whole plant, found clover family,
is is the whole plant, found growing in the
hay field. No. 2 with the little
low

(1)GLENHURST AYRSHIRES
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 Areacoming to the front wherever shown. Look out for this at th heaiferg. MECTOR GORDON, Howlck, Quelboc.





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up to brced in
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| Ust 22.1912 | ГHE FARMER | ADVOCATE. |
| :---: | :---: | :---: |
| GOSSIP. |  |  |
| The business hitherto carried on inde the name of the Park - Graham MullingCo., by Louis C. Park and Andred Graham, was dissolved by mutual sent on August 1st. L. C. Park pay and collect all $\qquad$ and a $\qquad$$\qquad$ |  | Canadian Northern Railw |
|  | thet his sheep have dono wedera in |  |
|  |  |  |
|  | tinn, having a good bunch of sale rams and ewes. | EXCURSIONS |
| e. C. CHAMPIONS AND OTHER WIN NERS <br> IN T. H. HASSARD'S MPORTATION. | ALi,Y FLASHY RCHERONS. | to Winnipeg $\$ 10.00$ |
| T. H. Hassard, of Markham, Ont., has arrived home from Scotland and France | E. C. H. Tistale or othens trim of Hodg | Choice of destination left to the excursionist. Halfa-a-cent a mile from Winni peg to Regina, Saskatoon, Warman, Swan points on the Canadian Northern Railway. |
|  |  | Returing halfa-cent aremil |
|  | stablea |  |
| and fillies. Comfortably stabled in his well-arranged barns at Markham, are now something over seventy head, among | and |  |
|  | enhance Mr. Tistale's reputation as one | 23--Fin min |
|  | ot the clevereat horse judgee |  |
|  |  | Mosmen |
| several years past have been among the best that left Scotland, the one of last | (emememed ball horsiovers the |  |
|  |  |  |
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|  | was theirs at the leading Western shows and at Toronto. A year's additional | n apply to <br> FAIRB AIRN, Gen'I Pass. Agt., Can. Nor. Ry., Toronto, Ont. |
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    rd．will feed 1 cow for 1

[^1]:    

[^2]:    -Cecil Cavendish, in st. Nicholas

