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Vor. XLVIII. LONDON, ONTARIO, NOVEMBER 6, 1913.

No. 1075

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EDITORIAL

Have the feeders leen placed in the stalls yet?
In important respects the farmer is a manutacturer.

Let us bear in mind that the cost of produc tion on the farm has been steadily rising.

A few townspeople appear to be still laboring spread without money and without price.

Who is to till the soil for the hungry multiludes if people all persist in living in town where they can attend vaudeville shows six days in the week ?

High-priced feeders must be fed low-priced rations to make the most profit. Feeding probcise his ability. $\qquad$
Reports from Saskatchewan state that the increasing interest in stock raising in the West is likely to cause a keen demand for good breeding horses next spring.
While the farm population of England has en ormously fallen off in recent times, there is little comfort in rememberingethat the army of gamekeepers has risen from 9,000 in 1851 to 28,000 in 1911.
Platiorm economists sometimes tell us that we annot regulate prices-all the farmer has to do the make good is by better methods to pull down half-axiomatic statements calculated to keep the farmer's eye solely on his own grindstone and not to worry about parliaments, rafiroads or financiers who are all the while putting fresh spokes in the wheel of production.

Scientific investigation with all its great achievements and all its labor-siving devices has so far failed to very materially lower the temperature of the farm kitehen. Men's appetites o not diminish generation after generation, but female farm help grows scarcer and scarcer. The brains of inventors and scientists could find anple scope for further sensational and useful didings in appliances to lighten the work of the woman on the farm

The county fairs are over for another season. this fall, and were favored with good weather large number of people attended these fairs. Wellconducted agricultural exhibitions, managed , by local men in each county, are deserving of patronage, and the man possessing stock or farm products sufficiently high-class to make a creditable exhibit, should bring them out that the sightseer may be the better repaid for coming to the exhibition. This season and last have brought home the fact that weather is one great limiting factor in fall fair success, but fine Weather, big crowds and 'increased entries, as was should stimulate at most of the smaller fairs, pnsure more enthusiasm and greater success next A good fair deserves support.

## The New Farm Power.

 With the development of engineering skill and the extension of electric transmission lines, it looks possible that the whole country may, in the near future, be served with electric heat, light and power. We are acquiring the advantages that older European countries enjoy without sacrincing, in the leas, our democratic relawhich is so chalo which is so characteristic of the American. There falling water is being converted whore porgy the will not only serve the towns and cities within the reach of the tentacles which they are throwing the reach of the tentacles which they are throwing to light their houses, thresh their grain, fll the silos, milk the cows, wash their clothes and cook their food, and warm their beds. What more should a farmer of the twentieth century ask? When the epoch of electrified farming is here inearnest, the cry of, "Back to the Farm" will earnest, the cry of, "Back to the Farm" will meet with a hearty response.

## Count the Cost in Feeding

The cost of living soars and city dwe'lers look ove: long lists of possible menus with a close scrutiny to settle upon some diet palatable, nucritious and wholesome, and with this, moderate in price. The producer worries less about these hreas, or his granaries contain the wheat for
giscuits, the stables shelter the cattle, sheen and swine from which he may get his roasts, steaks, leg of mutton and pork chops, and
his poultry pens are alive with busily scratchin pullets-regular egg machines-while cockerels are fisten'ng for the table, and cellars contain fruits, ronts and vegetables in variety. The owner and producer of $a^{\prime} 1$ this often does not fairly estimate its value, nor does he consider the cost as he should. The city ensumer almost invariably holds that all th-se good things cost the producer practically nothing, but wo know that they do. The lv uroon cos cost Iv uron the cost of crop production and the cost feedine live stock.
The 1913 cron has heen harvested and the problem now before the producer is how best to all ho srows and often more. This is constructive acriculture-a building-up proc-ss. But livestock feeding to be the success it should be must alwavs he done with skill to show a balance on the richt side of the ledger. Because the price of products of the farm is high enouch to make the urban consumer feel the ninch of "the hirh cost of living" is no prool that greater profits may be ohtrined hy han-hazard farmine or careless methods of live-stock rearing. The stock must he fed ceonomicallv or the season's returns will not meet the expenditure for feed and labor. The consumer must ponder over the menu for the table : the producer must wrestle with the problems of feorling his stock at smallest cost and to
best advantace. best advantace
The list of live-stock foods availahle is not as lone as that from which the housewife chooses dark arices the feeds more comolicated. oned, their comparative values astimated, sides this the feeder should have a price list before him of the feeds not on hand. It verly inten occurs that home-grown feeds may be sold to advantage and others bought to fill their place. This is in no sense "robbing" the farm. It is
good business to buy and sell at a proft. A cariful survey of the whole situation should be made by every feeder at the beginning of the its entire duration. Now is the the to eite th up. It is a complicated businese requiring knowledge ripened theug experincie, requiring ail foed stulfs must bo known or carafully estimated, values of various feads must be underatood this demanding a knowledge of their composition, intimacy with all market conditions and likely fluctuations is essential, and with-all this a Jik ing for the work isuffeiently strong to develop an interest in each individual animal is necessary to greatest success. This knowledge and ability if not cheap. Mon rightfully-boasting it in high degree are scarce and have reached the high plane which they have attained through years of experience often expensive. Home-grown reeds themseives are produced at great cost in thene days of high priced land, expensive farm equipment and scarce ilabor. The high cost of teeding applies to tho live stock as well as to the human race, and at this the commencement of another season of feeding, fitting and finishing farm stock for market the feeder should count ithe cost, con each feed and the beal combinations select the most suitable keeping in mind the prices and promost suitable keeping in mind the prices and pro-
duction values, and feed these to the class or kind of stock which is most likely to make the greatest gains land dwmmand the readiest sale at highest pricus when finfilued. Truly the high cost of est prices when finished. Truly the high cost of
feeding applies with all Its force to live-stoek feeding and truly the successful live-atock man requires a more than ordinary knowledge of feede and feeding and skill to carry out what he knows.

## Fight the Insect Foes.

Few seasons pass without sthe introduction of some new insect pest or plant disease. Each ininsects and plant diseases peculiar to itelf. sides having many of those common to all dr s.des having many of those common to all dis-
tricts. Each new pest adds to the expense of crop. Wach wow pest ada to expense of crop production, adds to the troubles of the pro-
ducer, and ultimately adds to the prices to the consumer, especially where such pests become so established as to destroy large portions of any crop. A/ few days ago we read that Canada is threatened with two or thrye more destructive insects, one attacking potatoes, one wheat and a third alfalfa. Fruit growers know how diffeult it is to produce clean fruit and in some places where San Jose scale has gained a foothold they realize what care is necessary to save the trees. There are scores of linsects and diseases of fruit ; there are grubs, weevils, stem-maggots, midges, worms, bugs and ,heetles galore attacking farm rops, to say nothing of rusts, smuts and other destructive and common diseases which yearly lower average yields and sometimes almost entirely destroy the crop of large sections of fertile lands. Animal diseases are prevalent and must e guarded against at all times.
With the large number of scourges now known the producer seems to have plenty with which to district to district notwithstanding that a large number of trained men do everything in their power to stop them. Many arề very effectively kept in control by State laws rigidly enforced. Investigations by biologists have rendered invaluable service in keeping some of the most destruc-

The Farmer's Advocate mome magazine.

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Mano-THE FARMER'S ADVOCATE,
Enin WILLIAM WHLD OOMPANY (LIMITRD)
Londont, oanada.
dvo insect and plant disease pests out of our country, but theme cannot be expected to do it all. Thoir findinge end suggestions must be actod upon by the man on the land. It is his duty to familiarize himself as opportunity affords with all destructive pests, to as far as possible avoid metroducing them onto his property by buying only clean, pure seeds and the best of fumigated truit trees from clean nurseries, and in case they of obtain a loothold to find out the best methods $\mathrm{H}_{0}$ should not r : ist protective regulations Government sanction, but should cogulations under the men vested with authority in the control with extermination of pentr. These officers are not meddlesome minions of the law, irksome and vexatious, but friends. Investigators through studies of Hife historie and habits generally evolve a practical method of control. Spraying, rotation of crops, cultivation, disinfection and many other methods are outlined to keep the farm and orchard free of pests of all kinds. Study the different formulae from time to time recommended for specific plant diseases or insect pests; be familiar with insect life histories and habits a:d try to keep the farm olean. One man in a neighborhood, careless and indifferent, may perpetuate the scourge and spread it year after year. It is the duty of all to put up a game fight and if this
Ls done the worst of the insect tribe or the most Ls done the worst of the insect tribe or the most persistent plant disease must yield and by follow-
ing up advantages gained the defeat may be turning up advantages gained

Plowing, the Basis of Cultivation. We often hear the remark made that plowing not as well done in these days as was the case some years ago. Many are the men well on in years who claim that they are much better plowmen than their sons or their sons' sons. Whether their contention is warranted or not the fact remains that much careless, indifferent work is done with the plow in these days when excesefve expenditure should etimulate every effort to


Fig. 1.-Longitudinal section of a spike of the tree club do all things agricultural to best advantage. There seems to exist in many of the younger men of the time an apathy towards plowing which must have been acyuired in most cases for it could never have been inherited soeing that their forefathers took great pride in the straight, even and well-turned furrow. The rush of modern times seoms to have extended to this important farm work, for is it not the case that many look upon plowing as an operation where skill is not required and whero the main consideration is to change green or brown fields to black? Aave you ever heard the expression, "We got fifty acres blacsed. Whe fow truly it apples "o many could not be called "plowed

There is an old adage which applies well to plowing, "A thing well done is twice done." In many cases one good plowing would do more good and covered varipty so common. If there is any farm operation which should be well done it is plowing. Consider what it means. Plowing is the first and main operation in the preparation the destruction of noxious werds. Without it under most conditions other farm implements could not sati-factorily prepare a fold for future crops. It consists, or should consist, in the throughout an entire season. Upon it depends


Fig. 2.-The common club moss.-Photo by Klugh.
the tilth of the soil when all cultivation is completed, and upon it depends largely the amount of It is a difficult necessary to produce good tith the cultivator task to made a good dins where bad beginning has been made with the plow. Good plowing is the basis of all good cultivation. This being true there is every reason to encourage
young men and o:der men also to take more interest in this by many considered the most enjovable and most important spring and fall (mor particularly fall) operation

Froperly conducted plowing matches ssrve to ep. ap worthy or support. A man who plows well enough to win at one of these generally plows well on his own place, for good plowing requires care and the man who is indiserent ninety-nine days cannot turn a perfect furtake more hundredth afternoon. It will pay to plows condemned when in reality it was the fault of the person betweon the handles that satisfacwork was not being done. Plows will not


Fig. 3.-The ground cedar.-Photo by Klugh.
operate themselves. Land may be made black without much attention to the plow and the driper may slouch along carelessly steadying the haneven take hold of these. Handles were made to hold. if they were not reyuired they would not be there. Even with riding plows ski:l is neces sary in their operation. The plow must be set
to turn an even, true furrow and the driver to gond work must pay particular attention to his horses, have his lands atarted straight so that he can, by exercising care, keep them straight and each time across the field turn the same width of furrow. A careless plowman is usually careless
with all cultivation and his crons genarally show the effects of slighted work. The plow is not a plaything with which to pass the time, it is the
first agricultural implement and upon the first agricultural implement and upon the work done with it depends to a large extent. far more failure of farm operations. Try to plow the firat furrow sl raight, an even width and an even deptb and endeavor to make each succearing furrow jusi like it, varying only where imerfections are no-
ticeable in the first and as firrnow lans on furrow straighten out 811 defcets until each is straight and all the same width and depth.

## Nature's Diary.

The Club-mosses are attractive nlants at any time of the year, but they are nartirularly so is mon in the woods as they are are not as comThough called "Club-mosses" these plants are


Fig. 4.-The tree club moss.-Photo by Klugh.
really allies of the ferns. The spores are borne arranged in phes, known as sporangia, which are spikes show very clearly in the illustrations. The spor.s upon germination do not grow at once linto op into like that which produced them, but develTium. on which are borne the male and female oryans, The egg upon development produces once again the plant as we find it in the woods
Fig. 1 is a longitudinal section showing the sporangia containing the a spores. This photograph was taken through a microscope and the section is magnified seventy-five times

These plants are also called "Ground-pines, "Stāghorn Probarly the most abundant species is the one called the Common Club-moss, which is shown in Fig. 2. It grows in woods and aiso on dry tan feet or more. At the growing end it is with the green leaves; at the opposite end it is
more or less hidden under an accumulation of more or less hidden under an accumulation of yellowish. Here and there, throughout its length, aingle, stout, cords until they enter the soil, where they usually branch once or twice. Frequently the main stem is branched, and the maise from which they spring, maintain a Hike the axis from which they sp
course parallel with the earth.
At short intervals along these sterns other branches are produced which extend upwards During the first year they are from one to three
luches long and are simple, but at the next lnches long and are simple, but at the next the same time put out short branches. This continues for several years until the older branches
ere several times uranched. with occasional roots ere several times branched, with occasional roots apringing from the leaves are evergreen and persist for sevaral years. Thev are arranged on the stem and branches in about eight longitudinal rows, and so close in the rows as to overlap. They are
about a quarter of an inch long, very narrow, about a quarter of an inch long, very narrow,
and each ends in a long soft bristle. The old loaves are dark green in color, but the new
growth is light. silvery green, and very noticeable growth is light. silvery green, and very noticeable in the early stinnmer
About midsummer the plant begins to put up
fruiting spikes, which are always borne at the tips of the branches of the previous year. The spores ripen in early autumn, and are bright
yollow in color. The lycopodium powder of the yollow in color. The lycopodium powder of the
drugstore, which is used to dust pill-boxes to drugstore, which is used to dust pill-boxes to
keep the pills from sticking together, consists of heen the pills
these spores.
This sirecies is one of the most widely distributed of the kenus. It is common in the Arctic
and Sul-Arctic resions of both hemispheres, and has also been reported from tropical America, Brazil. Cape of Good Hope, Madagascar, India, Java, New Guinea, the Hawaian Islands and
Eastern Asia. In North America it ranges from Eastern Asia. In North America it ranges frown
the Arctic Circle southward to Oregon. Iowa, Michircan, and New Iersev, and also occurs in the mountains of North Carolina.
In Fig. 3 is shown another common species of Lycopod um, known as Grnund Cedar or Ground
Pine, the former name appearing to me by far the Encat appropriate. like the Common Club-moss, this species has a long, running main stem which may reach a length of from eight to ten feet. The branches are erect. those of the season being
from two to five inches long and consisting of a ahort main branch terminating in wad-like point with a pair of onnosite fan-like lateral branchen Just he'ow it. The leaves of this srecies are of
two kinds. Fxtending lencthwise of the branches on the underside is a row of very short, pointed on the underside is a row of very short, pointed eeries of larger. leaves with the leaves closely apThe Tree Club-moss (Fig. 4) is well named,
thes
and its tree-like aspect is heightened by the fact come ewollen; there is practically no soreneme to that the main stem is deeply underground and the pressure and no lameness. lixerciee diseipate branches arising at some distance from one an- the swelling in most cases, but after a night ha
other seem to be different plants instead of sev- the stable the swelling has ro-appeared. Thio eral branches of one individual. The spikes of fruit are borne singly, on the tips of the old bran branch.
Our Club-mosses are th-3 diminutive descendpidodendro giant, tree-like forms, known as Loous period. Recent investigations have shown that the great bulk of coal is make up of the pores of these extinct plants.

## THE HORSE.

Be kind to the horses.
Good care is doubly repaid.
Brood mares often stock y exarchee and larative oed are needed.
Read "Whip's" article in this week's issue and cere for the horses accordingly.

The big horse sells for the big price. Do not colta.

Nights are growing longer, colder, and namper Horsee outside must feel the need of she:ter at this meason.

Do not pamper the colt. Feerl him well, but let him take rare of himself outside in daytime, unless too stormy

When the colt is brought in from the pasture ned. if he has not already been halter broken, do lead, but plan after he yields to let him loose in a box stall.

There is little to he gained by letting the foal has reached four or five months of age. Fapect ally is this the case where the mare io working daily or is again with foal.

## Some Common Fall Ailments

 of Horses.Change of weather, change of surroundinge, change of food and chance of usace are often reSwelling of the limbs, commonly called stockcanses. It aprears in colts and horses that have spent the summer and fall months in idleness on grass as well as in horses that have been regularly worked. It is due to sluggish circulation in the limbs. The eeneral health of the animal more limbs from the knee.or hock to the foot be-
the swelling in most cases, but after a night his
the stable the swelling has ro-appeared. This
condition is usually confined to horees that have condition is usually confined to hores that have
usually spent the nights on pasture, but in not unknown in horses that have been stabled all the
time. In the former cases, regular work or tercise and moderate feeding reg laxat work or ore after a time, usually result in e cure, but in any
case a cure is hastened oy treatment. The ant
unal should be fed nothing but a little bran unal should be fed nothing but a little brat
(either dry or moist) for about 12 hours, thea a purgative of 6 to 10 drams of aloes (according to size) and 2 to 8 drams of ginger should he given, and nothing but bran be given to eat until
the purgative begins to act, when hay and the purgative begins to act, when hay and grath
in small quantitiee should be given until the
bowels have reguined their normal condition in sman quantities should bo given until the reguined their normal condition after which daily exercise ahould be given, and
when the animal is brought to the stable afte whon the animal is brought to the stable afte
exercime the limbs should bo well hand-rubbed an bandages applied with only slight pressure. This tends to keep the limbs warm and atimulates air culation, but the premsure of the handagee ohoul slight swelling should take place. In addition to axercising and bindaging the pationt should bo given a beaped teaspoonful of Epeom asits in hio
food twice daily until the tendency to ewelling food twice daily until the tendency to swelling
has disappeared, and should he fed on fond of laxative character. A few carrots or a turnip. mangel once difily tende to keep the howele $t$ healithy condition when no graas ean be toch Pregnant mares in many cases appear to be par
ticularly liable to stocking. In such cases it wise to avoid drastic purgatives. A pint of limaeer oll may be given as a axative and the othe treatinent the mame as above. If the hormes are idle, good health can be retained only by seoin saddle. on the line, or in a paddock. A horw that stands untiod in a roomy box-stall will take idlenems and high feeding much better than the idlenems and high leeding
idla horse that stands tied.
Scratchee or cracked heels frequently appear. Some horse are pre-risposed to this trouble, es "round", stocking is often the cill cause, but standing in damp stahles, frequen wetting of the legs and a fature to rub them dry and groom properly are also direct excitin aopear the stocking is accompanied by incre local heat and tenderness to pressure and usually by lameness for a few stepe when taken out for exercise after standing for a few hours. After: cracls or eruptions, which exude a moleture greater or lesser ouantities, appear and the general symptoms become more marked. If the exciling causes continue and treatment be neglectod the case hecomes worso. the cracks hecome deepse, the exudate more plentiful and foul smellin
of courso, lameness becomes more marked.
Treatment.- - Before oruption takes place the treatment advised for stocking along with cerere to avoid exciting caunes will usually be sumeiont. addition to the arove treatment the partn mumb addition to the ahove treatment the partn must
be kept as clean as possible by careful rubbling


Lady McTaggart (imp. ampion at Ottawa, 1913 . Own


Laheuviniere.


Two-year-old Percheron ally; arst at Toronto and London, 1918. Exhlbited by
(do not wash)-and dnessed three or four times For this purpose a mixture of 1 oz. acetate of water is prohaibly the best that can be used moderate weather. In quite cold weather th dressing is too astringent and should be alternat ed with oxide of zinc ointment to avoid too much the cracks after an apparent recovery. In case that have become aggravated, by neglect of treatment or other causes, it is good practice to
apply hot poultices of linseed meal for a few days before using an astringent or ointment. Then if the cracks refuse to heal it will be noticed that there is generally what is known as "proud caustic, as butter of antimony applied with a featier once daily until it disappears, after which continue treatment as above.
Catarrh or common cold is often noticed in until late in he ' peculiar it is a fact. that the removal of a horss from exposiod and cold quarters to a comfortable stable often produces cold or catarrh. In such cases the patient is noticed to cough more or less, there is at first a slight, wa-
tery aischarge from the nostrils, which soon wcomes thicker and sonewhat persistent, the appetite is impaired, the coat staring; there is an increase in temperature and a general unthrifty apdearance, but when 'a careful examination is made
there is no well-marked constitutional disturbanco except a slight increase in temperature and In some cases slight stocking. In most cases good
carre and laxative food for a few days will effect a cure, but this can be hastened by the administration of 1 to 2 drams nitrate of potassium three times daily and if there be a tendency to stock hand-rubhing and bandaging the legs.
Avoid drastic purgatives in these tive food is usually all that is required, but if constipation is threatened to to 1 pint of raw linseed oil may be given, but there being more or
less soreness of the throat, hence less soreness of the throat, hence a difficulty in
swallowing, it is unsafe to drench unless care be taken and it is safer to give the oil by means of a 2 -oz. syringe, with which it can be forcod well hack in the mouth, and as the pe-
tient's heid is not being held high, there is practically no danger of any of the oil gaining en-
trance to the windripe.

## Handle the Colts.

handling of colts. The earlier the of the early general helief, in these days a belief which the ably set forth in an article in a recent issue of The Livy Stock.Jo'rnal, from which we take the
following: rolowing
particularly, among horse-breeding farmers theory, young horses were best. left entirely farmers, that til the time came actually to break them in for use, on the supposition that. for some unexplaj- n -
ed and occult reason, an unhandled and complet. ly untamed horse, which still had to learn the very rudiments of control, could be more effectively broken and more satisfactorily trained to its previous gentling and handling. In these modern and more enlightened days we, of course, know better, and have relegated that notion to th curious and fallacious beliefs which in former gen erations were prevalent in regard to the manage ment of horses. Even at the present time there found in remote districts who tenaciously cling to the aloove theory of a former and less well-in ormed age ; luntimpart from these exceptions, i is nowadays generally recognized that the early
handling of young colts, in order to inculcate tractalle disposition, is most. desirable, and tooth much facilitatos the work and lessens the troubl of breaking them in
soon, and a conmenterenent is best made alre to soon, and a commencernent is best made already
during foalhood, either while the foal is still rum-
ning with its dam ning with its dam, or at weaning-time, its confidence being more readily gained at this early
stage than at a a later age. A little gentling at frequent intervals will soon dispel the inheren dififidence which foals so generally display, and serve to render them quite amnable to cortrol.
Such handly Such handlywishould include the haltering of the
foal, and teaching it to pead, which last is a most convenient and desirahle accomplishment i all foals, while a point should also always made of handling its legs ocrasionally, so that
mav learn to submit quietly to having its fee may learn to submit quiet
dificulties experienced in the case of unhendled. young horses when taken up to be hoken in is to
get them shod the first timo. on which oncas get them shon the first timo. on which occasion
thev very ofen cause endless troulle, to sav nothine of the fact that thes are apt to tknock themselves about a good deal in their strugule
to resist the blacksmith, which may very possibl
reault in some injury being inflicte colt has previously been accustomed. But if ' a having its
legs and feet touched and picked up, all this legs and feet touched and picked up, all, this
trouble and risk of accident in connection "with the first shoeing is entirely avo avoided, the way being smoothed for its easy accompllishment. and the beneficial results of handling young foal and the great convenitence accruing, from this course are demonstrated in a particularly con-
spicuous manner at horse and foal shows. Here the well-behaved, docile foal which has had plenty of practice in leading, etc., always has an advantage over the unhandled youngster in that it can whereas the other is a source of much trouble to


Leicester Ram.
Winner of the aged c'ass at Toronto, 1913
by A. \& W. Whitelaw, Guelph, Ont
its attendant, not only at the show itself bat journeying to and from it. Well-trained foal may be seen in the show-ring to comport them are they not all the letter for being thus, and plined at an early age? It may perhaps be questioned whether it is advisable to go to the length of teaching a foal to stretch itself out for
inspection in the rinc after the horses, for there is the possibility that this, as is averred by some to be the case, may be pro ductive of harm to its tender frame, when fre quently repeated. but this is a point which hard The use of a leat ly advocated for the purpose of haltering youngcolts, this being the only suitable kind. A rone or hemp halter with $n$ running rein should be when halterert, which causes a halter of this kin to close tightly over the nose, with the result that the young animai is frizhtened, and sovere effect, and engendering a dislike to heing halterad in it, which it will take some time and trouble
to overcome.
Bvercome the a colt. is two years old it will he
cuitable step a suitable step to get it used to wearing a bit hridle instead of merely on the halter. With a will be no diffculty in getting it to take to the
hit if it has previously been well gentled, and if


## Duroc-Jersey Boar

Mac Camphell \& ${ }^{\text {in }}$ Owned and exhibited by rt is occasionally mado to wear and loose of hours or so, being accommodated in will prove a valuable preliminary to the mouth ing process later on when the time come mouth colt elucation for work in hand in earnest. The this is should not, however, be reined back when should be adjusted quite losaly put on thes the further useful. purpose this manner also serves skin further useful. purpose of linuring the delicat oi the bit and hardens iact. with the mouthpiec Gent the mouth from developing soreness when is most apt to occur on hreaking a colt that has
not previously lieen used to having a bit bin its
mouth. A plain, thick snaffle, or a colt mouthof bit to use for such players on it, is the kind ring bit, as used by some breeders for their yo:ny colts, is also very suitable for' the purpose. An improvement upon this bit a ring bit which and with a certain mouthing effect. While a ring bit is easy for the raw mouth of a young colt, it also confers good control over the animal when
it is being led.

The Box Stall for the Colt.
Cold weather means stabling, and stabling in
the case o? the colt should mean a nice light box stall. There is no better floor for suoh a stall, at least as far as the colt's welfare is concerned, than good, hard clay. A stiff, blue enough add water) pacsed and then smoothed and al owed to dry will hasden into a floor which will not prove so hard on the colt's feet as cement and not so drying as either cement or plank. jure himself, which is quite a consideration. To develop a colt to best advantage feeding
appliances are better placed low down. In fact, it would he belter in most Many goud horsemen for a high mange older horses as well as with colts. It is better to place the grain box at a good height, otherwise the colt will get his feet into it and waste some of the feed. Care is necsssary to have
nothing about the stall upon which tioe colt could in any way injure himself. Plenty of room plenty of light, plenty of exerc'sa and plenty of leed regularly given do much toward rapid devel-
opment.

## LIVE STOCK.

The problem is how to soll all the milk and a

Interest seems to bejcentred in feeding cattle this fall, but lambs should not be lost sight of Reeners made pronts which some successful lamb

Save the mangels for the calves and young
stock. Nothing is more relished by a calf and
nothing is better for its dised nothing is better for its digestion than good cr sp, juicy mangels. Silage is all right, bu
si.age and corn is better.
$\qquad$
Some care is necessary that the young pigs ar not over ied. It does not pay to undrfeed a pig grain. Shorts and not get too much strong grain. Shorts and a few finely-ground oats ar Mixtures are preferable. too many peas or barley

In startiny to stall fed
sters it is no advisable to get over anxious. They must no fee given too much grain at first. Start with a not be guided by the anima's' appetites at first for almost invariably they will eat ravenously o grain, upset their digestive organs and become stalled," a condition from which it takee time and careful f eding to recover. After the feedin tites and capacity for food may be used some

Breeding Herds and Tuberculosis
England re compulsory tuberculin testing, Sit John McFadyean, Principal of the Royal Veterin
ary College, in a recent opinion tiat compulsory testing of all the cattle all the country to be followed by the s:aughter of allormed person could recommend sane and wellwas once person could recommend. This plan has continued in that policy country adopting it alleged prevalence of tuberculosis in dairy herd. in England, the Principal stater that the means disease had been known for twenty free from the attempts to eradicate the disease had been made and the thst-nce of any drospect of the problem ward, for trouble and exnense involved stupidity class of cattle owners tha charge of mav, I think be fairly mado," in this matte Nohn. "T rofor to the owners of the valuath and). herds in this country (reforring to Eng difficulties in the wav of eradication are nothin ke so great as on ordinary farms. and owing to
non-tuberculous, the owner who freed his her some harvest.
Commenting on this statement one of the lead gricultural journals says "This charge will certainly be sharply chal-
lenged and resented. Owners of pedigree herds have not genorally adopted the course referred to chietly because they do not believe in the relia-
bility of the tuberculin test. and they seem to be supported in that doubt by evidence of the eminent medical men. The question can only bo settled by elaborate laboratory and other experi
ments. Doubtless, however, a large number o ments. Doubtless,
breeders are having their herds a lested. ${ }^{2}$. The fact that the export trade in pedigree cattle has been successfully conducted and widely extended for
the past twelve years under the tuberculin test which is insisted upon against the cattle of this country, but not as regards their own by foreign and colonial governments-is evidence that British herds are able to emerge satisfactorily from the
trial. Breeders have also been doling much mor to establish the soundness of their herds, and is on soundness that this important trade is based. They have been vigorously applying
hygienic principles in the housing and management hygienic principles in the housing and management
of their stock, and int other ways have been raising the health standard. The fact that with a vast increase in the consumption of meat and milk in this country, there is a great decline in the chief sources of the disease, and of this the late Dr. Koch was fully convinced.
"The attack made npon breeders of pedigree the enlightened benefuctors who have raised th reputation of British live stock to the highest point throughout the world, for they will con-
time, accordlng to their own judgment, time, accordling to their own judgment, to breed
robust cattle unsurpassed for the production of beef and inilk, thus showing as they have always done that they are lacking neither in intelligenc nor in publine sith considerable caution muc of the scientific advice which is beling so liverally showered upon them, and not to go in advance of the more reliable teaching of experience which herds."' It is true that much is possiust herd of cattl
ment of a strong, hardy, robust through the adoption of the best methods feeding and housing. Hygienic principles mus where tuberculosis is prevalent in a herd, it can not be eradicated without taking special means. Compulsory testing may not be advisable, but
where a breeder owns and operates a large herd of pure-bred stock it would seem to be to his own interest to keep it healthy. The tuberculi
test properly conducted we believe to be reliable test properly conducted we helieve to be reliabie,
and it has been demonstrated that it is possibl to keep calves from diseased dams free from the disease by a thorough system of isolation, never allowing them with diseased cattle nor to take
the milk of their diseased dams. Slaughtering valuable brezding animals because they reacted to a tuberculin test could not be tolerated. O course those far advanced and showing very maluable to keap and might better be destroyed, but many react which go on for years in apparent good health and breed and milk to advantage Such should be operated under the Bang syste
of tuberculosis treatment. Breeders of pedigreed stock should be encouraged to breed clean herds, should not be driven by scientific investigation to do unreasonable things, but all changes of laws
relating to testing should be so made that the relating to testing should be so made hat the
investigator and the breeder may work hand in hand to exterminate bovine tuberculosis and all other contagious animal diseases which it

Our English Correspondence.
Recent researches made in England into the nutrition of animals have been proving many things of int rest. It has been s own that it a
number of animals in store condition are put on a fattening diet, at the end of a feeding period of tweive to twenty weels a about half of them
will show live weimht increases differing by about will show live weight increases differing by about
four een ner cant. from the average live-weight Your een per cont. from the average wo-weight
increase of the whole lot. ${ }^{\text {In }}$ other words, the probable errer of the live-weight increase of a single fattening or or sleep is fourteen per cent.
of the live-wei ht increas 2 . Th's being so, it is of the Tre-wei ht increass. Th's being s3, it is be em.loyed in any feding experiment ahich is
desimned to compare the feed ing value of two radesigned to compare the feeding value of two ra-
tions with rrassnable accuracy. For instance, to Ineasure a merence of ten per cent.. is is neces-
sary to reduce the protable cent. in order that the ten ner cent. difiference may have a certainty $o^{\prime}$ thrty to one. To
achieve this. twonty-five animals must be fed
on each ring than crn ersam ach have numerous renorts of frelling trials which have been pub-
lished in the last twenty years will agree that in

very fev cases have such numbers been used. Wust admit then, that many of the feeding triais accuracy. Nevertheless, they have served a very useful purpose. From time to time, new articles | of lood cone on the market, and are viewed with |
| :--- |
| suspicion by farmers. | suspiceon by farmers. These have been incluaded wise, a piece of most userul information. TThus or instance, Bombay cotton-cake, when first put on the market was thought to be dangerous o however, by several of the aericultural college and found to be quite harmless to cattle. It



The Head of a Champion.
Bonnie Brae 21st, champion Hereford bull at Toronto
and London, 1913 . Exhiblted by Dudley
composition is practically the same as that of Egyptian cotton-cake, and it now makes on the mar et pracher instance of a new fool which ha been similarly tested and found to be safe for cattle if used in rather small quintities and mixed with cotton-cake. The price is now rapidly
rising to that indicated by its analysis.
Worlis rising to that indicated by its analysis. Worlk
of this kind is, and always will be, most useful. Trials with ten animals, while they cannot meas ure accurately the feeding value of a new food are quite good 凤nough to demonstrate its general pronerties, and its price will then gradually set
tle itself as the food gets known.
grain as stock food.
Of English cereal grains as food for live stock onts take pride of nlace, but it is not perhaps so
common'y known that their nutritive value varie commony known that their nutritive value varie


Silver Queen
calf, winner of second in a class of
Toronto, for J. A. Watt, Salem, Ont ing food. I.ondon, Eng.
water. Newly-harvested and also mouldy oats are both dangerous to stock; 'the former szould
e stored a couple of months beotore feeding, and the latter need steaming to be safe. Barley as a ood for stock is chiefly used for pigs and cows in ducing a good malting sample the better it is for giving a good feading kind. Berloy that has been tid also furrishes a bettor feeding. grain than it therwis' would do. For horses, barley is found mal's energy, but can be safely fed to the extent onefourth of the total grain ration. For ther clas ses of stock it is almost always fed as A meal owing to it being harder than oats, and
thereorese less easily masticated. As reigards its comme:cial feeding value, barley is not as rich in oit and allbuminolds as oats, but is richer in Whrbo-hydrates.
Wheat grain is not much used food. A certain amount, chiefy what cannot be sold, is. however, used, and its composition showe $t$ to be richer in albuminoids and carbo-hydratee be. As a foodstuff for animals, however, wheal can only be used in small amounts, as otherwise it causes digestive troubles., Especially is thit o with newly-harvested grain, or that from Wheat cannot be substituted for oats as a pro diczr of energy, being more adapted as a laten-

## THE FARM.

## Some Facts Concerning Lightning

 Rod EfficiencySome striking figures going to prove the pro ection afforded to buildings by properly-rerected ightning rods were obtained by Prof. W. H. Day of the Ontario Agricultural College, during
and ${ }^{191}$ published
in . The Farmer's Advocate" April 24th, 1913. Statistics were colliacted from mutual fire-insurance companies insuring both roded and unroddod buildings. Eight of these companies were in a position to furnish complete
reoorts of their losses. During the year 191. cose companizes wrote insurance on 10,644 farm buildings indicating that the total number o buildings insured would probably he about thirty thousand since the policies are renowable every
three years. of the buildings insured 21.1 per cent. were rodded. The eight companiso had nin teen builcings burned, of which not one wai orded. Counting burned and damaged building $\mathrm{ol}^{\circ}$ h, there were 135 buildings struck, of which per cent. Thus th stands ns 21.1 to 1.5 . Or stating the dats tin
another way very 7,000 urrodded builla-
ings insured by ings insured by those companies, lightning thirty-seven, while in every 7,000 rodded bulld ings insured, lightning claims were paid on only
two, or in other words the unrodded bullding ${ }^{18}$ times as likely to damaged by lightning a the rodded one. Th hee
resulta cover ail kinds resulta cover all kinds o
rods used in Ontario, and rods used in Ontario, and
douttiess include some im ${ }^{\text {proper rodding. To save }} 85$ pectancy of 37 means a
efticien From these figures it would seem that the fire
underwriters might
w ot
 favorable premium to own ers of roddded buildings, it
indeed they acepor un
rodded tives accell un the course of at all. In
visit to
the
nit visit to the Unite od
States, looking further in-
 Mu across one Farmers that the older varieties of oats give a richer Michigan which only takes ris.s company ${ }^{\text {S }}$ grain that the newer ones. The chief character ced buildings and is known as a "Lightning Pro stic in which oats difer from barley and wheat tected" Com, any. The Company's inspectors in
3 their richness in oil of a very difestible na- spect the rodding on every building when applica ure and it is this a very dgestib:e natal foodstuff for working horses. Apart from this, onts are far more pa atable and beneficial a anmals than any other grain, and the hus. ate an abundant flow of the diryestive porices the stomach and intestines. When feeding oats o horses it is well to crush them first, or mix
them with chopped bay or straw moistened with
tion is reecived. II the rods are not properly insta led lie application is rejected. Anothe Farmers mutual Company insures both rodded an
unrodded buildings, and as a means of identifice tion we shal! ca 1 ' it the "Un mrotect-d Compeny For four yea s. 1 1809-1912. . 'r's's of the Protected Companv totall 1/d $855,172,075$, and all the light ning claims patd by the company dur'n@ that
period amounted to the small sum of $\$ 82.00$, al
traceable to three small minor defests in rodding
which had escaped the inspectors. During the same four years the risks on the Unprotected Company totalled $\$ 59,567,272-$ a trife more than
those of the Protected Company-but the amount of lightning claims paid by this company during
that time reached $\$ 32,269$, which is 1,008 times as much as paid by the Protected Company, and practically all of this large amount was paid to oover losses on unrodded buildings. During the past seven years this company taking unrodded
rists has had only three small claims on rodded buildings, although twenty per cent. of the fouildings on which they carry policies are rodded Deducting these rodded risks, we see that the s32,269 damage occurred on unrodded risks amon $\$ 55,172,075$ of unrodded risks would be $\$ 37$, 282, which is $\mathbf{1 , 1 6 8}$ times as great as the loss on he same amount of properly rodded risks
These two companies operate in the same field of their losses is clear evidence in favor ol rodding. So phenomenal has been the success of the company carrying protected risks only that nearly overy counpany operating in the State is now
earrying its rodded and unrodded buildings in separate classes and each class is assessed for the losses sustained therein.
In the Unprotected Company above reforred to
both classes have been carried for five years and both classes have been carried for five years and lower in the protected class, as shown by the following table


This would indicate that from the standpoint of the insurance company, as wall as from that
of the owner of the buildings insured, it pays to rod.
is interesting to compare the figures in the howing thale with those in the following table, pany for the samessinents of

Year. $\quad$| Assessment per |
| ---: |
| risk |
| risk |

These figures further drive home the pointLosses are fewer on rodded buildings.
Nine county and township companies were in one-eighth as much business during the four years as did the Protected Company previously mentioned, but during that time this small company
taking unrodded buildings paid $\$ 3.274$ in or 102 times as much as paid $\$ 3,274$ in losses, company doing eight times the amount of businoes, but accepting only rodded buildings. The reports of the other eight all told the same story
as the largest and the smallest.
One company investigated, which took risks on
both rodded and unrodded buildings, decided to allow a reduction of twenty per cent. in the rates where buildings were rodded. Judging by
other companies where assessments were made according to the lossee in each class thie was not a suffioient reduction, there being nearer forty per cent. difference on the average.
Rodding has been proved to be efficient. So has drawn upon the business of other companiem. In septenber, when Prof. Day wan lonking into the operation of the company, it carried 832 ,
000,000 in riske and business was increasing almost $\$ 1,000,000$ per month. was increasing al-
Other companies have been pract'cally driven to divide their bualnass into rodded and unrodded class e.
ed The company first companed with the Protected Company has grown from $\$ 12,507,801$ in 1909
to $\$ 18,500,000$ insurance in September, 1913, but this company divided their risks into rodded and unrodded classes the very year that the Protected Company commenced business, viz., 1909. In splte of this the Protected Company is nuw doing
nearly twice the busipess done by the Unarotected. Other companies which did not do this, lost business and during the past two years have made
the change to the two classes. the change to the two classes.
clearest proof of the efflclency of lightning the From their losses we see that when the damnge to properly-rodded buildings a mounts to $\$ 1.00$ the
damage to unrodded ones amounts to $\$ 1,168$ on damage to unrodded ones amounts to $\$ 1,168.00$,
or in other words rods have prevented $\$ 1,167.00$ or in other words rods have prevented $\$ 1,167.00$
out of an expected lose of $\$ 1,168,00$, which indiout of an expected lose of $\$ 1,168,00$, which indi-
cates 99.91 per cent. efficlency, considerably better than in Ontario, where improper rodding was included. This should be suffieient to convince
the most skeptical that lightning rods properly

## THE DAIRY.

## Feeding Cotton Seed Meal.

State College of Agriculture in of the Georgia cotton seed meal recently published outlines on in which silage, wheat bran and cotton seed meal When fed in opposition to silage, ulfalla hay and Wheat bran, resulted in the production of a gaispectively. In other words, the results were in favor of using cotton seed meal as a source of protein rather than allailifa hay, Virtually the same results were oltained when an attempt was
made to substitute cowpea hay for cotton seed meal. It is true, these experiments were made several years ago, and while the cost of producing a galion of milk may be somewhat higher now heficiency was undoubtedly estalulished by those tests. Since the experiments in question were
made, aifalfa hay has increased relatively more in price than cotton seed meael, and the tifference in priver than cotton seed meal, and the difierence tein has l,een increased thereby.
In experiments made on the College farm at
Athens, Ga., the following rations were fed to groups, of four cows each. The first group re-
 colived cotton seed meal four tose, bran four ms., silage 30 the., and stover six the. The third group recelved bran ten trs. silage 80 tos., and
stover six me. In this test, the attempt, was stover six ms. Mn this test the attempt was
made to demonstrate the relative efficiency of cotton seed meal as a concentrate in a ration for dairy cows when fed in conlunction arith
wheat hran and in direct Wheat hran and in direct opposition to it. Note led all, eroups. The effeicincy of the rations is detormined by the relative cost of a gallon of The frst घroup made a qallon of milk at a dav. of 5.97 cents; thy socond groun made a a all on of
milk at ac cost of 10.07 cents. The cost of the feed milk at a cost of 10.07 cents. The cost of the feed
per cow per day was with the first group, 12


MAking in the Show-ring.
The frrst-prize dairy cow at an English Show. cents ; with the second group, 15 cents ; and with
the third group $19 y$, tainly show that at the prices prevailing for foodstufis when this test was made that cotton source of protein for dairy cows. In an as a the cotton seed meal was charged at $\$ 23.50$ per In this connection the high fertilizing value of cotlon seed meal as comparell with the other condairy cows 75 per cent of the fertilizing cong stituents should be relurned to the soil in the
form of yard manure where proper care is take to proserve the excrements. it has been
shown that cotton seed meal is freunenty as much ver ton for fertilizink purposes alone tas it actually carts at preverling market pricess. 1ts increase crop yields on soils to which it is a.pplied is an important matter to bear in mind. ducted at the College. In this inst unce four cows were used in ench group, and the following
rations were fed.
The arst pulp five tos. cotton seost turoal five toce., and silage ad libitual. The second Eroup roceived eipht thes. per day mixed in the provortion of Whent bran 68 10s. and cotton sexd mral 110
mos, with silage ad libitum. The third ceiverl cotton seed mienl six Tha, third aroup re livitum. The average cost per wallon of milk
with the frst group was 8.86 conts ; with the gecond proup, 7.28 centa. And with the thiry
 clency as a producer of milk.
Having fed cotton seed meal as the princinal
concentrate to daliry cows for many years, 1 would appear that its use in the quantities indi duction of milk at a moderate cost, but has not mpaired the health or longevity of the cows re civing it. Cotton seed meal has been fed in opped cowpea hay, alfalfa hay, beet pulp and wheat bran. In every instance it has proven the cheap est source of protein, and the most desirable con perienced dissatisfaction from its use, but the parties have, in most instances, fed it in too large quantities, or have not provided any sucpasture may be made to furnish. Persor good simply feed cotton seed meal at random will who secure good results from its use. It should be ed according to the weight and size of the aniis a simple matter to buy a pair of scales and properly-gauged measure to enable this work to be done quickly and economically.

## Dairy Methods and Rations.

From experience in Ontario and Quebec, anc from observation and enquiry in other provinces, duction in Canada," pives the following suggee tions as applying to the Maritime Provinces, Onario, Quebec and British Columbia
Summer.-Cows on pasture from tíme grass to by soiling crophes high. Pasture supplemented any slens of falling off in milk yield cows show While on falling off in milk yield
ture, equal parts bran, crushed oats and corn meal, say from one to three tos, per cow in full somewhat larger portion. ensilage may require Winter.-Provide liberal supply of succulent feed, as mangels. sugar mangels, sugar l,eets, turnips, swedes, corn ensilage, clover ensilage,
Feed moderate amounts, clover hay, mixed
hay, Enclish hay, alfalfa, corn forage, corn stover, marsh hay, alfalfa, corn forage, corn

Feed with succulent feed
some oat chaff, barldy Supply meal mixture
made up of two or more of the following, one or Group (a).-Crushed oats. corn meal, bran,
shorts, buckwheat shorts, sharley, meal, gluten feed,
barevers' grains, distillerg
brem grains. etc.
meal. oil cake meat (b).-Cotonseed neal, peas, horse leans SUGGESTED RATIONS

Ration 1.-Roots 50 ms., clover hay 20 mbe, mixture: $\mathbf{5}$ Bran ${ }_{500}$ Meal $\begin{array}{ll}\text { mat corn } & 300, \mathrm{~g} \text { lute } \mathrm{e} \\ \text { 200, } \\ \text { meal } 300 \text {. Feed one pound }\end{array}$ milking Shorthorn. meal to each four meal 300 . Feed one pound Ration 2.-Roots 20 tbs., corn ensilage 35 tbe. ture: bran 500 , oil cake meal 300 , Meall mix. One pound to each four pound milk producêd. Reation 3.-Clover hay 20 ths., oat straw 10 tbs. 200 . Feed one pound to each three pound on produced. Ration 4.-Corn ensilage
ms., alfalfa hay 8 nos., oat chaff 5
ths. Meal mixture : Bran Mis., alfalfa hay 8 hs. Meal mixture: Bran
500 , gluten 200, oil cake meal 300 , barley 200 . 500. gluten 200, oil cake meal 300 , barley 200 .
Feed one pound to four pounds milk produced. Mrsation 5.-Corn ensilage 40 Ths., alfalfa 10 onts 500 straw 10 ths. Meal mixture: Bran 500 , one pound to four pounds mill produced.

Renorts indicate that the new Tinited States tarifl is, as foreshadowed in a recent elitorial in cattle in this cowing upon the supplies of dairy ronto is said country. The district around To buyer, and to have been scourenl by Anuerican it to the Init d States in of cattle went out of many of thesed States in one day last week and m.n In the district are beginning to feel the scarcity of heifers. Supplying a large city with mila means that the old matrons must have their maces talen by younger stock from time to time. he had imenadiately to keen a young one must sumply. Whare will she come from if all the
heifers are socd?

havoc with many King trees, but it could be overas Spies are grafted in order to hasten them into bearing. Kings have been selling this year in apples handled for the same amount of money the greater will be the net proceeds. Ten per cent. Kings would not be an unwise choice. and only
two per cent. is now left for the agent and cuswo per cent. is now left for the agent and cusThese are all standard varieties and should be planted forty feet apart. Where fillers are required, early-bearing, smaller-growing trees are prefierable. We wish only at this time to name
few of the varieties which are unquestionably nost profitable, for it will be these which in future years of heavy ofierings on the market will yield the best returns., To the grower of these kinds "over production" will never be a reality, good and $\rceil$ well-tried varieties and there are some which have established for themselves a bad reputation yet have made money for the grower. ed every two years, it might still be a profitable apple on account of its heavy ylelding and attractive appearance in the package. It is a good shipper and in lspite of its lack of quality com-
mands a place in some remote markets. Get in touch with your Provincial Col Department of Agriculture land ascertain through hem the wisdom of planting varieties you have in mind. Planting is not done for one year or of the market make a good criterion upon which o the market make good cr

## The Prevalence of Apple Scab in Ontario.

Editor "The Farmer's Advocate": other sections of this county weil-sprayed orch-
Before discussing the reason for apple scal, or
many
growers call it
shlack spot" gus," being so abundant this year and for the failure of careful spraying in a number of cases
to control it, many persons would probasly like to hear whether this state of affairs prevailed all dver the Province of Ontario. or whether it was
only certain sections that suffered severely data I shall give on this point is largely the result of my own observations when visiting differ-
ent paris of the Province in counsction with the $r$ San Jose scale.
Starting at the east of the Province. Morris-
burg district, I found that in the really wellsprayed, nrchards, where the spray was applied at the times indicated in the spray calendar, the apples. even Snow and McIntosh. were clean, ap-
parently 90 per cent. free from scal. Unsprayed parently 90 per cent. free from scal. Unsprayed
orchards had no fruit berause of the ravages of ent caterpillars.
ant district representatives told me dast week that the really well-sprayed orchards were clean. At
Port HoDe and Newcastle I visited four or five well-sprayed orchards, some of them were large, scab. Unsprayed check trees showed from 20 to 50 per cent. infested.
At Whitbv I visited the orchard sprayed by w.
Kyd.l of the Department of Agriculture, and an Kydul. of the Department of Agriculture, and
ansprayed orchard alonsside of it. The latter had, in my opinion, fully 90 per cent. of the
fruit scubby and much of it had fallen off hecause of the disease: the leaves were also badly not one scabby apple out of two hundred : in
fact. I doubt if there would be half a bushel of scabby fruit in the whole four acres
chard. The crop was a medium one otally free of scab, while unsprayed have not more than from 10 to 40 per cent. of the fruit In Wellington, around Guelph, so iar as one
could judge from the unsprayed fruit brought into the market, scab was not very abundant, even per cent. scabhy.
In the Niagara district a few orchards were quite scabhy, but as a rule the disease was not
very virulent. Three small orchards sprayed by myself and assistant. Mr. Spencer, at St. Cath-
arines, were easily 99 per cent. scab free.
As we go further west, however, we get more As we go further west, howstration orchard,
scab. At Woodstock, a demonst,
sprayed by Mr. Kydd's assistants, was, when visited ly me a short time ago, about 95 per cent
clean. The neighboring orchard, unsprayed, but 50 per cent. to 90 per cent. of scabby fruit. In Brantford reports indicate that scab is very pre
valent, even well-sprayed orchards having as high in some cases as 40 or 50 per cant. of affected
fruit. In Middlesex county, the orchard snraved ruit. Tn Middlesex county, the orta. W. Stark
ny I., B. Whale and his assistant. J. W. Stach
had scarcely any scabby fruit, wherenas some chech
arcis were reported to be quite scabby.
In Norfolk county, around Simcer the best sprayers have been greatly discouraged The same condition prevails in Lambton with few exceptions. In Kent, Mr. Mcrostie, the dis trict representative, states that the well-sprayed information from Georgian Bay district, but I am information from Georgian Bay district, but I an
told that travellers leeport good, clean fruit there From this survey of the Province it is clear
that it is chiefly in the southwestern counties, such as Brant, Oxford, Norfolk, Middlesex and fairs exists.

THE WEATHER RESPONSIble One naturally asks why it is that Peel county folk so severely infested. The-answer to this can be given in two words-the weather. In Peel there were not sufficiently long periods of contin-
uous rainy or dark, foggy weather at any time in May or early June to give the scab spores chauce to germinate, in large numbers and so infest the fruit. It was only in a few sheltered orchards where the breeze did not freely pene-
trate or in a few specially sheltered trees in other orchards where the moisture evaporated very slowly that the scab disease made any headway.
In Norfolk, however, and also in the other severely infested areas there were two periods in May where favorable weather for scab occurred. These inclusive, and second, from May 21st to 23rd, inclusive ; in fact, in some localities favorable con-
ditions for the development of the disease ditions for the development the the so far as I can discover, there was no more weather that would satisfy the conditions necessary for the
germination of spores of the scab. So that, in my opinion, all or almost all the scab injury was
done during the period from May 15th to May 28 th, and not as most growers believe during June. From a study of the weather reports. there does not seem to have been any wet periods in June sufficiently long and continuous to start
fresh igermination of spores. But I shal! be told that there was no sign of scab on the fruit until some t'me in June. when the apoles were hall, an
inch or more in diameter. 1 believe that yery inch or more in diameter. 1 believe that very
few thought $0^{\text {? }}$ examining the fruit so early as few thought of examining the fruit so early as
this, but those who did saw little dark spots, the result of the scab, showing injury was explanation of this is simple: It takes several
cays from the time the spores germinate on the Cays from the time the spores germinate on the
fruit or leaves before the spots are visible. If we supposs the most of the infection on the fruit
took place from May 21st to 23rd, or even 27th, as was likely the case on most varieties, then the area where the germinating soore tubes
entored the fruit would be showing as a tinv spot about the first week in June, and in another
wrek or two these spots would be black and much wrek or two these spots would be black and much
enlarged, so that it would look as if there had
l,een a great deal of fresh infection in the mean-
time.

- SPRAIYING DELAYED. Now let us think over the two periods of in-
fection mentioned above, May 15th to 17th, inclusive, and May 21 st to 23 rd , or even to the
27 th , aind ask oursielves where $\$$ hese dates pome 27 th, aind ask ourselves where, these dates dome
in comparison with the date of spraying just we ore the blossoms burst and agrain right after hey fall. In parts of these southwestarn counies I believe the blossoms began to burst about May 1st if late varieties, like Spy, were a little May 7 th, the bloom came out very quickly. Consequently many growers who had just inished the first application-ithe one before or as the prise and be unable to get the second one ull on or to do it thoroughly. Moreover, if this spray were finished by May 1st or 2nd there would be period carne on, after which the bloom theod cold up to about May 20th. In these five days there would be an opportunity for much development of leaves and blossoms, and conssquently oven where the spray was applied by May 2nd these rarts
would be left unprotected and thus give a sood chance for the spores from the old dead teaves on the ground-the place where the disease wintersing the first favorable period, May 15 th to 17 th As the blossoms did not fall early unough, or th wet weather did not permit its being done, the soray that should be put on just after the hlos and in many cases not finished till June 1st that in the meantime the second period of wet weather, from May 21 st to 28 rd , or in wome cases o 27 th , intervened before this spraying could be cone to safeguard the young forming fruits. The would have produced a new crop of spores by May 21 st, or the beginning of the second wet spell ; in fact, I saw the spores at this time on some apple leaves in Niagara. Thess new soore on the young fruits, which were clearly vifible by May 21st, and many would germinate by May 23rd or 24th and more by .May 27th. It would the germ tube from the spore had pessed through the s'in no spray could prevent its growing there and in a weets or two beginning to form a black lies on the explamation of the failure of my opinion, control the scab. (My tests with spores show they germinate in from 18 to 40 hours. They probably have worked through the skin inside of I may be asked
at London, was able explain how I. B. Whale, the ahove be so. I think the explanation is this First, he sprayed very carefully three -times. The first application was April 24th and 25th. This
would perhans help some by falling on the dead leaves and tending to prevent the development of May 5 th there. The second application was Ho that the leaves just before the cold weather, so that the leaves and hlossoms stood almost
period, or the early period of infeetion of May Thus the new crop of sports that in earlier spray. ed or in unsprayed orchards developed on the unprotected leaves and bloom was here prevented and when the next period of wet weather came, ance of spores to inoculate the fruit and leaves. His third spraying was put on the early apples,
May 23rd, I think, and on the other May 28th. This may not seem very convincing, but the fac ally scabby shows that he got the spray on at the right time to prevent the scab.
No blame, in my opinion, should be attached to the imajority of those who failed to control
scab in these distriets. The peculiarity of the eaason caused a long period of fully three weeks, twice the ordinary period, to elapse in mest districts between the opening and falling of the bloom and in this period the scab got a start. I
have no record in my own experience of a season of this nature, one where thorough spraying; at the recommended times failed to control scab. Jas. E. Johnson, of Simcoe, , told me that in all his previous experience he had never seen a siminot likely we shall have another spring like this $r$ many years.

THE SPRAY C'SED NOT TO BLAME.
So far as I can see, there is no reason much whether the same careful spraying with Bor deaux would have given better results on the whole. That lime-sulphur can and does control scab when put on before the spores get a chance act that it was this mixture that was used in all he really clean orchards I saw. I have tested this mixture on all sorts of trees and in various istricts of the Province for four or five consecugot less than 95 per cent. of scab-free apples, even on Snow trees. Bordeaux has not done any etter than this. I have no brief for lime-sulphur. Let the man who prefers Bordeaux mix
Many think that a fourth spray, about two reeks after the blossoms felly would have helped reatly to control the scab this year. I do not during the first hall of June was wet hat we should never give a fourth application in une 13th the days were quite hot and in hot eather, unless exceptionally wet, we get no development of scab. I do not mean by this une. It all depends on the weather. If the rospects about eight or ten days after the Coding moth spray is done point towards cool, wet weather, it will be very advisable to spray at once. Do not, however, spray apples when they sulphur on a hot, calm day, as many of those exposed to the sun's rays will be badly sun-
scalded by the spray. This forms a large, hard orown area on the side exposed to the sun. have another August and September we occasionally have another outbreak of scab, but only if the weather is wet and cold as it was last year. weather begins in August and, if necessary such peated in September, will save great loss, especiAs varieties very subject to scab. at the fruit growers' meeting in Toronto during the Horticultural Exhibition, I shall be very pleased to get any data readers of this article can give me in the meantime and to receive
their criticisms and questions.
L. CAESAR.

Fortify Trees Against Vermim It is not uncommon to have the most health mice or rabbits during the winter months. The bark of the young peach or apple tree is very ap-
petizing to this kind of vermin in cold weather, and damage from them is sometimes weather, preciable. In certain instances cover crops have been impossible on account of the harbor they
furnish for the The rabbit does
his teeth. Oftentimes it reaches for the small under hranches, and, in so doing, steadies him-
self against the trunk with his self against the trunk with his paws. His slip-
ping down and climbing up often injuries the more than his chewing amounts to. Some tree ers have found it useful to cut of some of the tender twigs that would naturally come off with next spring's pruning and throw them on the
ground or snow. This serves to attract, their attention from the tree, as they get their re quirements from the slender shoots upon the ground. A small piece of closely woven wire and costs about seven cents per tree. This does orally advised protective Perhaps the most gen
to that used in baskets. This is stood around the contend is the mattor of mold. There is always tree and made fast with a string. A little dirt a tendency for the oats, to mold in the sprouting
Lanked around the bottom will help to make it process. The only way in which it has been firm and less likely to collapse. The wire would not score as much protection against the peach tree borer. The veneer is sometimes used, but ordinary papers are more in vogue. Banked at
the bottom with soil and tied at the top, newspapers will prevent the insect laying its eggs on
the tree. That is an operation to be put into the tree. That is an operation to be put into execution in the spring, but it would be a good
idea to save up a quantity of daily newspapers for that purpose. The prevention of
girdling by mice or rabbits is timely at girdling by mice or rabbits is timely at this sea-
son, and if any damage exists it should not be son, and
disregarded

## POULTRY.

Sprouted Oats for Winter Green Feed
The feeding of green food to poultry in winhas been much practiced by experienced poulably largely in the nature of a digestive stimulant rather than as an addition to the actual prouted oats have the ration. In recent years green food for poultry. Experience at the Maine Experiment Station indicates that in order to arake a satisfactory product the oats must be warmth, moisture and sunlight. Where the right combination of these factors can be gotten, oats may be satisfactorily sprouted for poultry-feeding
At the Maine station use was made of a small room in connection with the station poultry plant. This room is provided with a three-inch the back part of this room which to sprout oats,


Quack! Quack! Quack!
a closet, inclosing the three-inch hot-water pipe. The partition wall which forms the front of this storm-window sash, hinged so as to swing open as an ordinary door does. These glass doors face toward the south side of the building, which
has a window directly in front of the door has a window directly in front of the doors.
Throughout the day the closet gets plenty of light. The dimensions of the sprouting closet are as follows: Length, nine feet three inches ; depth, two feet six inches ; height, six feet.
large, square greenhouse flats, made taken by eighth-iuch stuff. These flats have the following dimensions : Length, two feet five inches (Inside);
breadth, two feet five inches (inside); depth, two breadth, two
inches (inside)

## inches (inside The length

commodate three the closet is such as just to ac on supports so they can be moved in or out o turned around to suit the convenience of the operator and the meeds of the sprouting grain. These
flats sit 15 inches apart (that is, vertically) There can be accommodated four rows of flats. three in a row, in the closet at one time. A number of holes are bored in the bottom of each
one of the flats in order to drain off the surface one of the flats in order to drain off the surface
moisture which comes with the wetting of the oats. The advantage of the closet arrangement described is that it enables one to control the three quite ;completely. In this closet it is and light quible to maintain a temperature which does not run at any time below 70 degrees. The closet being perfectly tight, it is possible to saturate convert the whole space into a great moist cham ber. With this arrangement one is ablel to grow oats from four to six inches high in one week's
time. The only difficulty with which one has to
found possible to control this mold is by thoroughly cleaning the flats after each time when
they are used. After a flat has been emptied it is thoroughly scrubbed with a 50 per cent. solution of formalin (that is, equal parts of commer-
cial formalin and water). This scrubbing thoroughly done and sufficient formalin is used to soak the flat thoroughly. With this precaution, and if the oats are further made to grow rapidly, the mold does not give any trouble whatever The actual method of sprouting the oats is as
follows : Clean and sound oats are soaked in water overnight in a pail. The next morning flats are filled to the depth of about two inches and put into the sprouting closet. At the beginning freshly-filled dats are placed near the top of the and in that way get the sprouts started at once. During the first few days, until the sprouts have become from a half to three-quarters of an inch over at least two or three times during raked over at least two or three times during the day.
This stirring insures an even distribution of moisture throughout the mass of oats in the flat. After the sprouts become sufficiently long so that the oats form a matted mass it is not desirable to stir them, or to disturb them in any way.
Stirring at that time will break off and injure the sprouts and the green portion above the mass portanc grow so well. The matter of prime importance in growing the oats successfully has been found to be sufficient moisture. The tendency at should be kept quite wet. The aim here is to keep condensed moisture standing on the glass doors which form the front of the closet at all
times. In order to do this it is found necessary to wet the oats three times a day. This is done with an ordinary greenhouse sprinkling can, with very little expenditure of time or labor. As the tions in the closet. The taller the green material are moved toward the floor, because the growing
grain then needs less heat grain then needs less heat.
This procedure leaves the desirable $p$ a aces in the closet, for the grain just
beginning to sprout, where beginning to sprout, where
high temperature is needed. The oats are fed when hey are from four to six inches in height. They piece of the mattede of and attached green stalks about six or eight inches
square for each 100 birds per day. In feeding, this
six to six to eight inch square
piece is broken into smal ler pieces and scattered sure that all the birds will have an opportunit to get some. Fed at the rate indicated, this material has never caused any bowel trouble
among the birds. It should be cl $\qquad$
$\qquad$ pose for which green sprouted tonic and stimulative influence on the digustive organs. They are not fed for the food ralue of
the oats themselves. If one wishes feed oats they can be most economically to sprouted. The point of sprouting is io furnish fresh, succulent, green food during the winter

## FARM BULLETIN.

## Market Timothy Seed Early

 the 1912 and 1913 crops are being handled । b the Toronto market. It is probable that the approximately $50 \%$ of the 1.912 and $50 \%$ will be 1913 crops. In an average vear nearly three obtained from Chicago, and is Amed Canada is Because of the unfavorable weather in Western Quebec and Eastern Ontario last spring, little timothy seed was saved this year. Considerablhas been held over and is still in tho farmers hands: their over and is still in the farmers The farmers for higher prices.
rule, market their Eastern Canada do not, as rule, market their timothy at the most oppor-
tune time. During the last few vears retail
donle dealers in the Ottawa and St. Lawrence Valleys have purchased their supplies from agents o A merican firms before any considerable quantity
of local seed had been threshed. Seven years
ago farmers could thresh their seed in April and
make it available in the local retail stores in seed, however, is cleaned by power mills operated plenty of time for seeding. Now the Seed Con- by seed houses. When local vendors oltain their
trol Act requires this seed to be cleaned and supplies direct from cleaning plants, they escape graded. This can be done by the farmer himself much of the responsibility entailed by the Seed ifll set of timothy seed screens, and takes ithe precaution of sending accurate samples to the Ottawa seed laboratory for test and grading.
The great bulk of commercial grass and clover
farmer who holds efight, to herefore, the Canadian late in the season finds little demand for it, the
main channels of commerce having been supplied

The Toronto market is now purchasing ite rehundred pounds. It is anticipated that the old as well as the new crop now in the farmers' ands in Eastern Canada will again find a dul ustomed the time of year they have been aclate under present conditions.
er present conditions.
GEO. H. CLARK

## The Union Stock Yards, Chicago, Illinois.

THE WORLD'S GREAT LIVE STOCK MARKET


Five Hundred Acres of Stock Pens
Showing the Chicago Union Stock Yards, and some of the Packing Plants.

Tmagine a one-hundred-acre farm with two farms of corresponding size on both sides given
over as yards and paddocks. Think of this 500 acres being all paved but fifty acres.- Consider
13,000 pens with 25,000 gates through which the 13,000 pens with 25,000 gates through which the
stock is directed to different yards and retained stock is directed to different yards and retained
therein ; then picture for one moment over 500, therein ; then picture for one moment over 500
000 head of horses, cattle, sheep and swine co ralled into that enormous live-stock center and
with this vision in mind one might form some litwith this vision in mind one might form some lit-
tle idea of the extent and capacity of the Union the idea of the extent and capacity of the Union
Stock Yards at Chicago. Bounded on the west and south by Packing Town, with its enormous capacity for stock; in-
tersected with railroads and traversed by viatersected with railroads and traversed hy viaducts, it presents the appearance of a humming,
busy live-stock city. Iike the great city by
which it is currounded, it has its main thoroughbusy ive-stock citv.
which it is currounded, it has its main thorough-
farea and side streets, fares and side streets, and again the elevated via-
ducts resemble the elevated railroad of Chicago. ducts resemble the elevated railroad of Chicago.
Through these viaducts the stock is transferred Through these viaducts the stock is transferred
from and to various different points without interfering in the least with operations on the grounds and in the pens.
The Union Stock Yard and Transit Co. of Chicago are the proprietors of this great live-stock murnish accommodation for live stock and a suitable place for buyer and seller to meet and tran-
sact business. All husiness is done by word of sact business. All business is done by word of
mouth and both parties to the transaction trust mouth and both parties to the transaction day yet disputes are so few that one is forgotten before another occurs.
On the north side is the hog department. On the north side is the hog department. A
two-storey building it might be called, which, tocomprises over 8,000 covered pens. South of the
sheep and sheep and hogs come the finished cattle and then on the south and east appear the stockers and
feeders, while the corresponding western corner is the quarantine section and stock is only re-
ceived there when intended for immediate slaughceived there when intended for immediate slaugh-
ter. The cattle are not so fortunate as the ter. The cattle are not so fortunate as the them. They must enjoy as best they can the
sometimes inclement weather in the open pens, but they are well fed and watered and the big,
fat steers do not mind a severe cold spell if it is fat steers do not mind a severe cold spell if it is
not wet.
the The roilway branches around the yards and
Packing Town, which is the area contiguous to the yards and occupied by some of the largest packing plants, connect with thirty-two complete
railroad systems, having, in all, 100,000 miles of ratroad systems, having, in all, 100,000 miles of
track, with terminals in Chicago. These systems serve fifty million people in the various States and give access to the city for stock or means of
procuring the canned or manufactured product in
return. The yards draw from twenty-two different States in the Union, and on one record day ent States in the Union, and on one record day
198.164 animals came pouring into the city
vards yards. It required 3,720 cars to convey them
there, which is equal to a solid train over twenthere, which is equal to a solid train over twen-
ty-eight miles long, or if arranged in single file ty-tight miles long, or if arranged in single file
it rould make a solid procession of animals over
200 miles long and require ten days to pass a
given point marching constantly at the rate of
twenty miles per diay. The outlet for this stock is so great and the capacity of the Chiccago plants so unlimited that the major part of this immense shipment was all disposed of in one day

ECONOMIC IMPORTANCE.
Packing Town and the yards together employ about 40,000 people. This represents families to must be fed and clothed, transported hither and thither, educated, amused and protected, so an additional number of individuals depend indirectly upon the live-stock interest in Chicago for
their livelihood. Thus nearly 400,000 people, directly or indirectly, are dependent upon this enormous trade for a living in Chicago. It is a market with no equals. In one year the receipts and values amountred to over $\$ 375,000,000$, which and a quarter million dollars for every working day in the year. This was the turnover in the yards alone and does not include any
after the animal once leaves the pen.
The Union Stock Yards at Chicago figure appreciably in international affairs. No polar expedition is equipped without supplies from Chi-
cago or other plants that have gotten their live cago or other plants that have gotten their live
stock from the yards, no navy would commence an extended bombardment or conflict, no war would be declared nor army advanoed without first getting supplies directly or indirectly from
this great center. Chicago Stock Yards is the this great center. Chicago Stock Yards
greatest live-stock market of the world.
CAPACITY OF YARDS.

Seven hundred and twenty-five chutes permit unloading from the cars to the yards to proceed with utmost expedition. If filled to their great 000 cattle, 125,000 sheep, 300,000 hogs and 6.000 horses. During the year $191216,487,233$
head of stock were sold, realizing $\$ 375,694,939$ There is no other market of any kind in the world that equals it as a trading place. It appears
like a ranch congested with fences, gates and like a ranch congested with fences, gates and
stock. Buyer and seller no longer walk amongst the offerings, but go hither and thither through gates and viaducts on their yard-trained horses.

THE STOCK
All parts of Western United States deliver up their quota of live stock to the Chicago yards, fielcts of Illinois, Iowa, Indiana, North Missouri, parts of Kansas and Nebraska, and portions of Minnesota and Dakota. The first three States lead, perhaps, in the quality of their offerings.
About ten per cent. of the cattle received are About ten ern States or Texas and go back into the States of maize and alfalfa.to be finished. Yearlings, weighing 900 to 1,000 pounds,
known as "balies" or "baby, beef", top the marknown as "balies" or "baby beef," top the mar-
ket along with the heavy, deep-fleshed steer, and. at time of writing, are selling at $\$ 9.00$ to $\$ 9.75$ per cwt. Stockers and feeders are picked up
either for short-keep or long-keep steers and the
prices vary with the requirements, but the steer demand and at present is changing hands at prices ranging from $\$ 6.00$ to $\$ 7.15$ per owt. More depends upon quality and type than upon weight, however, and here is no better objec a live-stock market to see what a premium is placed on quality.
Sheep journey from as far south as Mexico and bring with them the resemblance to the old Spanish Morino type, with which the Spanish
first stocked that country. They heve been top ped with Shropshire and other breeds, but they still carry the close, fine wool and folds of flesh proportions. Other types of sheep comie from wyoming, numbers and many lambs from Colorado. Nymthat indeed are the carloads of leeding lambi and alfalla in the fertile country near Denver. Feeders vary from 45 to 65 pounds aplece, while the average butcher lamb ranges in the vicinity
Most striloing of all is the difference in Canadian and United States markets in the character of the swine. Instead of the straight-sided, ba con type of hog seen in Canada, the low, fat land-Chinas, fat.and short of leg ; Duroc-Jerseys, red and thick, and others, showing spatterings o Berkshire, Chester-White, Hampshire and many other fat-hog breeds in their parentage, fil up
the pens. Individuals varying in weight from 50 to 1,100 pounds are seen, but the popular weight, if such there be, is 200 to 225 pounds. So varied are the wants of the markets taking the
swine that every class has a patron. New York swine that every class has a patron. New York
takes the thinner kinds; Philadelphia asks for fat and lard, while Boston desires most the medium carcass, smooth and round.
Chicago is essentially a market for finished stock, and in this respect differs from Buffalo that animal on either of these markets to only is he deeper in flesh and more evenly covered, but on count of and more evenly coverfeeding is better filled on the inside and dresses out a higher percentage of carcass.
WHERE THE STOCK GOE

There are, in Chicago, eighty-two different laughtering plants, and together they consume sixty per cent. of the stock offered at the yards.
One cannot conceive of the stupendous character of their operations. To those not acquainted with the industry a sausage is a sausage, but in one plant alone sixty different kinds of sausages taste of the most fastidious, or the most indinierent. Some with one seasoning, some with another; one make in a particular kind of container, one in another. And so it goes up and
down the whole gamut of sausage choices. Thly of course, is only one department in the preparation o human lond, but there is a corresponding
variation in all the endless number of product
of these plants and：when together they make up the untrained mind
To be fitter cent．of the incoming stock goes again to be fitted on the farm and ranges，and the re－
mainder is utilized by abattoirs，both east and West．
The outlet is practically the whole civilized World，and this condition，combined with the fact
that stock comes from both north and south makes every season a busy season and every day a busy day．

Days of heaviest runs．
The daily capacity，as stated previously，is
about 500.000 head，but this is never attan about 500.000 head，but this is never attained．
Monday， 0 ct． 27 th ，saw 34,000 head of cattle， Monday，Oct．27th，saw 34,000 head of cattle，
32,000 hogs and 68,000 sheep and lambs．With this great deluge ol meat，choice baby beeves sold for $\$ 9.75$ per cwt．Mondey and Wednesday are the busiest days，but the fourth of July and
Christmas Day are the only times between sun－ Christmas Day are the only times between sun－
rise and sunset that bear the least resemblance to a cessation in the operations．This great influx and outpouring of stock is maintained throughout the year and entails almost eternal vigilance on

OHIEF OPERATORS
Amongst the Chicago packers Swift \＆： 4, ，Ar－ mour \＆Co．，Norris \＆co．，and the constituent Co．are the heaviest buyers．There are over four hundred commission oflices transacting business for non－resident buyers and
not enumerate them in a not enumerate them in a
limited space，neither could we cite a few with－ out giving them unwar－ ranted prominence a a d th e other reliable firms The buyers and sellers re present business ove whole continent an ed according to $\mathrm{f}_{\text {ij }}$ xo eld charges：Cattle，per car－
load，minimum $\$ 10.00$, maximum $\$ 13.00$ ；hogs $\$ 8.00$ single deck，$\$ 12.00$ double deck ；sheep，mini－ $\operatorname{mum}_{\$ 10.00} \$ 8.00$ ，The axim mum \＄10．00．The charges per
heare
Cattle，
50 cents；calves， 25 cents hogs， 20 cents；sheep， 10 cents per head，calves
simply an entrance fee which amounts to cents．
enters the the live stock enters the yards an en
$t^{\prime} r a n c e ~ f e e ~ i s ~ e x a c t e d ~$ Cattle and horses， 25 15 oents per head；hogs 8 cents per head，and
sheep， 5 cents．This is and they $r$ emain in definitely on that charge． $\$ 1.00$ per bushel＂oats， 75 cents per bus usel
timothy hay，$\$ 1.25$ per cwt．，and alfalfa，$\$ 1.50$ CANADLAN OFFERINGS Although a great num－ of cattle have left Canadian farms for United States markets，they have not appeared in
Chicago in any great numbers．The finished stock has probably been sold in the East，while the younger animals have kone directly to feed－ ing st

THE OUTLGOK
M．F．Horine，statistician for the Stock Yards possible date that markets may expect anything like an adequate supply of beaf．Mr．Horine has been connected with the livestcc： c industry for employ of the Union Stock Yards Company．Af－ ter thorough investigation he is satisfied that Australia and Brazil will not figure in American markets for a number of years．Argentina has
suffered from three successive vears of drouth and the foot－and－mouth disease，She has been strug－ gling to supply England＇s demand for beef，and now Portugal，Spain，Italy and Switzerland are
drawing on her stock．She has sacrifced many of her cows and heikrs，and not for seven or ten years，at least，will she recover from the shock．
United States and Canadian breeders have noth－ ing to foar from the Argentine．Canada and the
United States are both short of cows and heifers and before an appreciable increase is the iemales and before an appreciable increase in the emales ture steers ior the market several years will have
e＇apsed．The year 1919 or 1920 at least will
supply approaching the adequate mark，and in the neantime Canadian farmers cannot be admonished ish it on the farm．More particularly should the breeding stock be retained，for the shortage of stock and abundance of feed in some sections is regrettable condition already existing．This
unwise action on the part of many will，in a few years，make itsolf evident through depleted fields and wornout farms． The Milk Producers Association，composed of
a number of producers around Toronto，met in
that city again recently and decided to stand by the city again recently and decided to stand by
the original price of $\$ 1.70$ per can for seven months from October first．Depalers offer $\$ 1.40$ months
per can．
an is trying to shine again and if the corn aet a chance to dry，a steady day＇s work will get it
ore than lacked in thankfulness has been heir thanksgiving day wien we were hauling had farn．When the loads were being shovelled off he ducks were and grains were shelled，and Whenever a load was brought in they wertime er the wheels and the horses＇feet ready to sal age every grain that fell．By evening the if they had tried to swim we might have to eat o trouble with The Marine Department for got in them filled beyond the Plimsoll mark．One lame drake made a horrible example of himself．As
a rule his slight limp，due to having been step－
ped on ped on ty a cow earlier in the season，did not
interfere materially with his movements．He could jurmp for a grasshopper as suddenly and $\mathrm{u}_{\mathrm{n}}$ rringly as any of the flock，but when he got is with corn from his waistline to his beak time he stepped it would overbalance him on the ame side，and over he would go．Wiaen I came across him in the vard I thought a wheel had
gone over him，hut on examination I found that othing ailed him except that he had on tha a load and had it on lopsided．He was so full that he could hardly quack when I picked，him up，but，judging from the look in his eye，he was and he was making the most of it，without any hought of the Christmas that is looming in the ut to look at himought of taking the children the evils of gluttonv，but they were so busy eat－ ing apples that 1 was afraid that they would probably sympathize with the duck instead of be－

The apple harvest is now over and that is a faction concerned with the about｜the only satis－
fasiness this season．When the apples were placed on the packing table I was really ashamed of them． scabbier and worse－shaped lot．I have seldom seen． packed them last year，so that I have every rea－ son to believe that the grading was done in the same way both years．Last，year they put up
something over 130 barrels．of this year from the same trees they put up exact－ ly one barrel of No．1＇s．The rest were all No． 2 ＇s and 3 ＇s．I，at least，am thankful that in
making our sale this year we managed to sell making our sale this year we managed to sell
our No．3＇s．Before another year comes around I hope the scientists will be able to tell definite－ ly how to control the scab．This year it cer－ tainly got beyond us．I am by no means the perienced orchardists have the same complaint to make，and the amount of No． 1 apples packed in the best orchards this season has been pitifully
small．During the winter meetings of our as－ small．During the winter meetings of our as－
sociation we shall have to get the ripest thought of the country on this question，so that next
 tween the frest and the scah our apples had a
hard time of it this season，but the we got softened the blow．And that reminds me that I have received two more requests for
apples this week．I am sorry to have to dis－ appoint people，but they really should．make up
their minds about buving earlier in the seaso

Mr．Carey，the Peripatetic Philosopher of
Pomology，otherwise known as the Inspector and Demonstrator for the Fruit，Branch at Ottawa， paid a visit to our association while the pack－
ing was in progress．He demonstrater ing was in progress．He demonstrated on box packing，and gave us a lot of instruction and
amiable counsel．He impressed the necessity of carefui grading，and the use of box packages if we are to hold our place in the market．It seems that boxes are steadily increasing in，favor
in the West，and the Western demand is one to which we must cater．When asked about the wild storties regarding Ontario apples that have come from the West，he ventured the opinion that subject．Of course there nas been some careless and even dishonest qrading，and packing，but his experience has been that the various associations form with the requirements of the Fruit Marks Act．It is hardly fair for the papers to the giv－ ing the whole province，a had name because a
few mistakes and siarp deals have No mention is made of the many shipments of first－class Ontario apples that reach the West every year．In commenting on the subject Mr． carey advanced a theory that is worthy of in－
vestigation．Although theologians and profes－ sors of ethics have found it．dificult to properly define a conscience and explain its workings，Mr． Carey Has some definite convictions on the sub－
ject．He holds that the conscience is ject．He holds that the conscience is a kind of
elastic check rein on our conduct．It is capable


Paul Calamo Korndyke
of being stretched a little by temptation, and the competitions with their neighbors at the National been stretched too often, it loses its return pull been stretched too often, it loses its return pull
Some men when packing apples may be entirely Some men when packing apples may be entirely tention of giving a proper pack, but by constant y ghiving a little stretch to their elastic con
sciences in order to pass slightly defective sciences in order to pass slightly defective
apples, this intuitive check gradually loses its restraining power. The an inspector appears on
the scene and an otherwise honorable man is the scene and an otherwise honorable man is
fined and disgraced. The trouble seems to be that some packers do not recognize this elastic quality of their consciences, and so get into trouble. It is a very pretty theory and does
much credit to Mr. Carey's heart, even though much credit to Mr. Carey's heart, even thoug he may have difficulty in getting the colleg
professors to grant the soundness of his views.

Chicago's National Dairy Show. All great national events are concelived only in the minds of a few, and not until they mature have the slightest conception of the vision that came to the minds that gave them birth. Th
National Dairy Show, held at Chicago from Oc 23rd to Nov. 1st, 1913, is a feature in America agriculture that is destined to be one of th most influential factors of an educational nature
that has heen inaugurated, and too much honor cannot be bestowed upon the promoters of thi show, who had such broad-minded foresight and the energy and continuity of purpose to put lit into execution.
dairying or dairy farming, was held in the grea amphitheatre at the Stock Yards, which is also the home of the International Fat Stock Show.
All products into which the cows' milk may we converted were on exhibition, and many were manufactured each day before the observation of the guests. Then came the dairy utensils an milking machines and everything necessary it equip a farm with five cows or one hundred and five. Refrigerator plants, creamery outfits an everything large and small were there, and partments in themselves were worth many miles of travel to see, for they acquaint the dairyman with all that is new and up-to-date in sanitary and labor-saving devices. Most unique of all ex-
hibits was that of the Fox Fiver Butter Company, which had constructed from their brand of butter a plowman, plow and team. It did not depict the modern riding plow, but probably rep-
resented the outfit of twenty years ago. To see resented the outfit of twenty years ago.
this farmer turning the stubble with his eye along the beam attracted considerable attention, and drew forth respect and admiration for the man
upon the soil. The Department of Household Science of the
University of Illinois had one large room devoted to lectures and demonstration cooking. The con parative values of all foodstuffs were explained mothers' denartment of the home were made clear to the ferminine audiences.

ARIOUS COMPETITIONS
The stock-jldging competition, made up o
teams from different colleges, is always an inter teams from different colleges, is always an inter
esting feature from an intercollegiate point o esting feature from an intercolegiate point at
view. Canadians have won worthy honors at
the International, but as yet have not gone into the International, but as yet have not gone into
competitions with their nelighbors at the Nation
Dairy Show. In the final reckoning this year,
the University of Missouri stood first with score of 3,786 points out of a possible 4,000 . Kentucky State University followed with $\mathbf{3 , 6 7 2}$ points, then came Iowa, Nebraska, Maryland and
The executive got down to brass tacks in their trials of proficiency in the millking contests. Boys and girls, men and women, farm press
editors and millionaires all sat fown in the arena in their various classes, and with their hands manipulated the teats and udders of some of America's most productive cows in order to prove their superiority on the stool as well as in other
lines of honorable toil. They were indeed linteresting, and hard it was to keep the excited crowd from bearing down upon them.
Good as were the exhibit booths, the intense interest centered round the arena, where over 700 head of America's aristocracy of dairy blood
trove for premier place. Visitors watched in strove for premier place. Visitors watched in-
tently while the various classes in each breed were being judged, but when the banner went to the grand champion sire or dam in their particu-
lar breeds the growing and pent up enthusiasm burst forth into cheering and applause. For the first time since 1907 Canada was rep-
resented at the National Dairy Show by an exhibit of dairy stock. That veteran Ayrshire breeder, R. I. Ness, of circuit this year in the Uniterl States, and ended up in Chicaco with a herd of 24 Ayrshires in charge of herdqm
to any country

THE AYRSHIRES
Three exhibitors, R. R. Ness, Howick, Qu Waukesha, Wiso, led out 65, head of seot Ayr shires. Seitz carried off the honors which re versed conditions existing at Waterloo, Iowa where Ness was champion of the breed and pre mier the Waterloo Dairy Show. Seitz was allowed, by the Judge, H. G. Van Polt, to take fret et
Chicago. It appears that Van Pelt and W. W. Chicago. It appears that Van Pelt and W. W. Ballantyne, of Stratford, Ont., who judged at
Waterloo have different Ayrshire ideals, or else the competition was so keen that the placings migh easily be reversed. What makes the former sup-
position appear nearer to the truth is that Ness's position appear nearer to the truth is that Ness
heard was on the road constantly for six days before unloading at Waterloo. and even there conveniences were lacking to get them into shape. At Chicago the Canadian herd were in good con-
dition, having recovered from their strenuous tour, and it was somewhat surprising to followers of the showring to see them defeated by com-
petitors whom they had outclassed under less petitors whom they had outclassed under less mlinded, showring executives and judges we would not stoop to, accuso any judge, especially one possessed of the calibre and reputation of $\mathrm{H}, \mathrm{G}$.
Van Pelt, of wavering to the influence of nationat sentiment or petty prejudices. Quite likely it is that ideals of type varied to the extent of reversing these decisions, and it meens no dishonor

Imp. Bargenoch Gay Cavalier, took senior and grand championship in bulls for Seitz, outclassfirst time Hobsland Masterpiece, who, for the princes in Ayrshire blood, and the decision might easily be reversed as it was at Waterloo. Seltas's Kilnford Bell was senior and grand champion cow. Ness had the junior champion bull in
Holehouse Wanderer, and junior champion cow in Holehouse Randy, who was grand champion at Waterloo. Auchenhrain Fannv, Finlayson Maggie, Broomhill Fllora, Benchan Spottie and Hobsland Pansy won for Ness first honors as a dairy herd.
Schanck won the banner for most stock exhibited. bred by the exhibitor, and Seitz won the banner as winner of most money.
GUERNSEYS.

Guernseys are ten times outnumbered in the United States by the Holstein breed, but when pass all other kinds numerically. Eighteen breeders entered and were represented by 183 animals. It held Prof. Geo. C. Humphrey, of Madieon, Wis., from Wednesiay morning till They in the ring placine the awards.
There wero thirteen entries in the aged-bul class, but Imp. Hayes Cherub stood first and af terwards captured the grand championship in al male classes. Guernseys breeding filed into the arena and many good cow there was which stood outside the monev when the ribbons were dispensed. Essele eweller, owned by A. W. \& F. E. Fox, Waukes
ha, Wis., was first. Not so large as Jedetta of Pinehurst, who took second, but she had excel. lent constitution. ouality and a Guernsev's coun-
tenance that challenged the judge to place her


Kilnford Bell 3rd.
rand champion Ayrshire cow at Chicago


Aged Ayrshire Cows at Chicago
Ness's Auchenbrain Fanny standing at extreme right black and white seem inseparable at the dairy exhibitor.
show. Thursday and Friday were Holstein days,
and the big attendance bespoke plainer than little known in Cwiss and Dutch Belted cattle are
anywhere rbut first. Later she stood beside Imp
Jessie Rose, brought there by W. W. Marsh, Wa Jessie Rose, brought there by W. W. Marsh, Wa-
terloo, Iowa, for senior championship. Jessie terloo, Iowa, for senior championship. Jessie
Rose was just a little better and won the laurels Rose was just a little better and won the laurels the funior champion. This victory of Imp. Jessid Rose secured for Marsh the permanent possession of the Langwater troph
two previous occasions. wo previous occasions
months old and under class was the heifers, isix Prot. 1Humphrey, and easy it was to choose the good, but hard to discard any bad. Lilly Lapine vas first and Glencoe's Bopeep second. Both
animals belong to Marsh, and in his care will probably "be heard from at a future dairy show. Dr. T. W. Brophy, Edison Park, IM., had the unior champion bull in Lady Chesterbrooke's May King. W. W. Marsh had the best exhibiter' Guernsey quality and
rought to a high'stage of develon have been United States and Canadians would be surprised at their ringside to see the perfection of the stuff -
The Jerseys were third in numbers at the thow, but for quality they were unsurpassed one hundred and thirty-five animals with blue
blood in their veins came into the arena, and gave G. W. Sisson, of Potsdam, N. Y., consider vere representedield for thought. Nine breeders to the Elnendory Stock Farms, of Lexington, Ky Lasatar secured the senior and grand champion ship on Noble's Eminent I,ad and had the senio had brought from Monmouth, Oregon B Stum heifer which was junior champion cow, and when funior and senior females the the littlest of of all the Junior and senior females the little heifer, Ma o
Fair Cows, won the laurels. She was aired Noble Peer and was one of the 'sweetest females in the showring. She did not win by a very wide margin, for Lady Jolly, a nine-year-old cow, sired by Golden Jolly, possessed many
points which Ma of Fair cows only promised Lut the placing was a popular one despite their
HOLSTEIN-FRIESIANS.

Large crowds, good interest and the colors of
words the popularity of the breed. The large barreled cows with capacious udders looked, in truth, to be the great producers they are, when Overial and the proper care are furnished them. Over 175, old and young, walked into and out of
the ring. Many a herdsman came, confidént of his chosen animal, only to find it excelled by one
a little better. W. W. Stevens, a little better. W. W. Stevens, of Liverpool, N. Y., had no easy task to decide upon the relaIn the aged class R. E. Haeger's great show bull, Paul Calamo Korndyke, was first, and Ollie Johanna Sir Fayne second. Wecause this buld took second place is no indication that he is not
a good one. He is a big, strong bull and in the a good one. He is a big, strong bull and in the
pink of showring condition, but Calamo Korndyke is almost unbeatable, for he has been up against America's best Holstein blood this year
and is king of them all. Sired by Korndyke and is king of them all. Sired by Korndyke
Abberkerk, and out of Waneta Calamo Pietertje, he has the blue blood in his veins and the conormation besides.
In the aged-cow class a bery of high producers
faced the judge, but Haeger's Aconeth Lady faced the judge, but Haeger's Aconeth Lady
stood at the top of the line. She was afterwards senior and grand champion cow, as was Paul Calamo Korndyke senior, and grand champion bull.
Haegar was first with the good stuff, but Farms, Traverse City Sta. M. Carpenter, Iowana Copestake were all in the money with good BROWN SWISS
J. P. Allyn, Delavan, Wis.; H. W. Ayres, Honey Creek, Wis., and E: M. Bartin, of Hins-
dale, Ill., were the three exhibitors in Browin Swiss blood. Collectively, they put on exhibition sixty-seven head which to patrons of the
breed would be considered good four-year-old bull, owned by J. P. Allyn, was senior and grand champion. As a type of bovine strength and character he was outstanding in his class and a credit to the breed. Allyn
also had the grand champion cow in Belle of also had the grand champion cow in Belle of
Grattan and won the banner as winner of most money. DUTCH BELTED,
Twenty-five head of these black, white-banded cattle were shown by E. J. Kirby, Covert, Mich., and Maplebrook. Farm, of Mason, Mich. Kirby
won all the championships and banner as premier
exhibitor
we have already established in the four leading
dairy breeds, there appears little place for thein
except in showring circles. xeept in showring circles.
It was, to speak conservatively, a very good
how. Unique in that dairying was the onl show. Unique in that dairying was the onl type, quality and productive ability were show in the stock. Up-to-date fixtures for the barn house or dairy were shown exhaustively, and n carrying away ideas of no littie value. Withou table it is, however, that more Canadian stock does not occupy the stalls at this show. Cana ian breeders have nothing to fear from thei gratifying to Canadian visitors and profitable to he exhibitors to see more of our good dairy stock in friendly competition with neighboring

## Regulations re Canadian Stock

Going to the International From Dr. F. Torrance, Veterinary Director lowing item taken from United States Regulations, governing stock going from this country to the
Chicago International Exposition "Cattle must be accompanied by a satisfactory certificate of tuberculin test by a veterinarian in the employ of and receiving a salary from the Canadian Government made not more than owner or importer stating that the said tuber culin test refors to the cattle in question." Sheep shall "pass a satisfactory inspection at the port of entry," and be accompanied by an
affidavit of the owner or importer, and a certifcate issued by a Canadian official veterinarian stating that he has inspected the sheep and found them free from disease, and that no contagious
disease affecting sheep has existed in the district in which the animals have been kept for sis months preceding the date of importation," and "have been twice carefully dipped in one of the Sproved dips.
signed by a Canadian official veterinarian state ing "that no swine plague or hog cholera has existed within a radius of five miles of the priod of six which they have been kept, for a date of shipment." Also the usual affidavit of
dhe Horses are subject to inspection at the port Canadian official veterinarians are provided with the necessary forms for these certificates, and will be glad to furnish any further informa-

Want Increased Subsidies
The Conference of Provincial Premiers, which animous demand for additional Federal on a unto the provinces. If these subsidies widies ed to meet the demands of the Premiers, it would mean that the provinces would get more than resolution asking that the Federal Government increase the salaries of the Lieutenant-Governors in each province, and that henceforth they be tions were brought forward several other resoluthe Premiers did forward, but on most of them

## Markets.

## Toronto.

Receipts at the Union Stock-yards, West
Toronto, on Monday, Nov. 3, numbered 295 cars, comprising 6,375 cattle, 1,105 hogs, 3,937 sheep and lambs, and 198 calves. Quality of cattle fair to good
Trade slow. Good to choice, fat cattle steady, other grades 15 cc . to 25 c . lower
Choice butchers Choice butchers', $\$ 7.25$ to $\$ 7.50$; good,
$\$ 7$ to $\$ 7.25$; medium, $\$ 6$ to $\$ 6.75$; common, $\$ 5$ to $\$ 6$; cows, $\$ 3.50$ to $\$ 6.50$;
bulls, $\$ 4.25$ to $\$ 6.50$; milkers springers, $\$ 60$ to $\$ 100$; calves, $\$ 4.50$ to $\$ 10.50$. Sheep,
$\$ 7.25$
$\$ 3.50$
$\$ 7.50$ $\$ 7.25$ to $\$ 7.50$. Hogs, $\$ 9$ fed
ered, and $\$ 8.70$ f. $\left.\begin{array}{l}\text { o. b. cars. }\end{array}\right]$
REVIEW of Last week's markets The total recelpts of live stock at the
City and Union Stock-yards for the past
week were:

|  | City. | Union. | Total. |
| :---: | :---: | :---: | :---: |
| Cars | 65 | 866 | 931 |
| Cattle ...... .... | 1.488 | 16,742 | 18,230 |
| Hogs ...... ...... | 125 | 5,989 | 6,114 |
| Sheep ... ... | 947 | 7,950 | 8,897 |
| Calves | 94 | 1.505 | 1.599 |


lbs., at $\$ 6$ to $\$ 6.25 ;$ stockers, 500 to
800 lbs., at $\$ 5.25$ to $\$ 6 ;$ rough, Eastern 800 lbs., at $\$ 5.25$ to $\$ 6$; rough, Eastern
stockers, $\$ 4.50$ to $\$ 5.50$; stock heifers, $\$ 5$ to $\$ 4.75$. Distillery bulls sold at Milkers and Springers.-The outlet for good to choice milkers and forward
springers,
continued broad values being firm throughout. Al feax. prime cows sold from $\$ 90$ to $\$ 100$, and
two or three reached $\$ 110$. one choice Holstein $\$ 130$; medium cow sold from $\$ 50$ to $\$ 65$, while light cows
brought $\$+0$ to $\$ 50$. Veal
better in Toronto. calf market was never sold at $\$ 9$ to $\$ 10.50$; good, $\$ 8$ to $\$ 9$. 6.50, and rough,
$\$ 8$, , common, $\$ 5.50$ to
Eastern calves, $\$ 4.50$ Sheep and Lambs.-The sheep and lamb trade
weemained steady to strong all
Sheep-Ewes, $\$ 5.25 ;$ heavy ewes, $\$ 4$ to $\$ 4.25$; rams,
$\$ 3.50$ to $\$ 4 ;$ culls, $\$ 2$ to $\$ 3$. Lambs old at $\$ 7.25$ to $\$ 750$; bucks, Lambs

Hogs.-On account of the light receipts,
og values have been growing stronger ll week. Selects, fed and watered, sold

NOVEMBER 6, 1913
b. cara, and $\$ 0.40$ to $\$ 9.50$ weighed ofi Hars. chere were fow horses offered and sold.
The few that were sold went to the local crade, and at unchanged quattations. We
did not hear of any shipments to outside did not hear of any shipments to outside BREADSTUFFS, Wheat.-Ontario, No. 2 red, white or
mixed, 80c. to 82c., outside; 85c., track, mixed, 80c. to 82c., outside; 85c., track,
Toronto, Manitoba, new, for October ship-
ments, from Fort William ments, from Fort William, No. 1 north-
ern, 87 fc .; No. 2 northern, 86 c . ern, 87 flc . No. 2 northern, 86c.
Oets.-Ontario, new, white, 33c. to 34c.,
 Yanitoba oats, N
B8jc., lake ports.
Rye.-No. 2, 61c. to 62 c ., outside.
Peas.-No. 2, 83c. to 85 c ., outside. Puckwheat. - No. 2, 52 c . . to 53 c ., o
Barley.-For malting, 56 c . to 58 c .; for
feed, 33c. to 46 c ., outside. feed, 33c. to 46c., outside.
Corn.-American, No. 3 yellow, 73 देc., Midand, -American, No. 78 tre, track, Toronto.
Flour.-Ontario, ninety-per-cent. winter-Flour.-Ontario, ninety-per-cent. winter-
wheat patents, new, $\$ 3.60$ to $\$ 3.70$,
 second patents, \$5; in cotton, 10c. more trong bakers', $\$ 4.80$, in jute.
HAY AND MILLFEED. Hay.-Baled, car lots, track, Toronto,
$\$ 14$ to $\$ 14.50$ for No. 1; No. $2, \$ 13$ to 813.50 .
Straw.-Baled, car lots, track, Toronto
, $\$ 8$ to $\$ 8.50$.
Bran. - Manitoba, $\$ 22$ to $\$ 23$, in bags; track, Toronto. Shorts, $\$ 24$ to $\$ 25$;
Ontario bran, $\$ 22$ in bags; shorts, $\$ 24$; Ontario bran,
middlings,
$\$ 24$.
hides and skins. No. 1 inspected steers and cows, 13 c .;
No. 2 inspected steers and cows, 12 c. .,
city hides, 14 k c.; country hides, cured,
 35c. to 38 c. ; horse hides, No. $1, \$ 3.50$
to $\$ 4$; tallow, No. 1 , per 1 b. , $5 \frac{1}{\mathrm{~s}} \mathrm{c}$. to 7 c COUNTRY PRODUCE. Butter. - Market firmer. Creamery
pound rolls, 28c. to 31c.; creamery solids, pound rolls, 28c. to 31c.; creamery solids,
27c. to 29 c . separator dairy, 26 c . to
27 c .; store lots, 20 c . to 25 c . 17c.; store lots, 20c. to 25 c .
Eggs. - New- laid, 40 c .; cold - storage
Eelects, 32c. to 33c.

 per dozen sections, $\$ 2.50$ to $\$ 3$.
Beans.- Imported, hand - picked, $\$ 2.25$
per bushel. Canadians, hand - picked, per bushel. Canadians, hand - picked,
$\$ 2.10$ to $\$ 2.25$ primes, $\$ 1.65$,
Potatoes.-Ontario, car lots, track, To Potatoes.- Ontario, car lots, track,
ono
Poultry.- to 75 c .
Pecipts
liberal; quality poor, prices about steady. Chickens, alive,
13c. to 14 c, s ducks, 12 c . to 13 c .; hens,
10c. to 11c. per 1b.; geese, 12c.; turkeys, 10 c. to 11 c .
18 c . to 20 c .

TORONTO SEED MARKET Alsike, No. 1, per bushel, $\$ 7.75$ to
$\$ 8.00 ;$ alsise, No. 2, per bushel, $\$ 6.50$
to $\$ 7.50$; alsike, No. 3 , per bushel,
 bushel; $\$ 2.50$; timothy, No. 2 , per bushel,
$\$ 2.00$; red clover, per bushel, $\$ 6$ to $\$ 7$.
fruits and vegetables. Apples, baskets, 30 c . to 50 c .; apples,
barrels, $\$ 2.50$ to $\$ 4 ;$ Canadian grapes, small baskets, 25 c c. to 30c.; cabbages, pe
dozen, 60 c . to 65 c .; Canadian onions $75-\mathrm{lb}$. bags, $\$ 1.85$; turnips, per bag, 50 c .
beets, per hag. 85 c .; carrots, 85 c . pe oeets, per hag. celery, 40 c . per dozen;
bag; Canadian
Spanish onions, per case, $\$ 3$; hall cases, sin

## Chicago

Cattle--Beeves, $\$ 6.60$ to $\$ 9.70$; Texas
ateers. $\$ 6.7$ to to $\$ 7.80$; stockers and feedtrs, $\$ 5$ to $\$ 7.50$; cows and heifers, $\$ 3.3$
to $\$ 8.20$; calves, $\$ 6.50$ to $\$ 10.75$.
Hogs. - itight $\$ 7.55$ to $\$ 8.10$ mived, 7.60 to $\$ 8.25 ;$ heavy, $\$ 7.50$ to $\$ 8.25$
rough, $\$ 7.50$ to $\$ 7.70 ;$ pigs, $\$ 5.50$ to $\$ 7.60$.
Sheep and Lambs.-Sheep, native, $\$ 4.10$ oative, $\$ 6$ to $\$ 7.50$.
a

British Cattle Market.

Montreal
Live Stock,-The local cattle markets
were yery strong again last week, and will go higher rather than lower. Best butchers' cattle were up about tc. The
common stock seems to level. There was a good demand from American buyers for the latter quality to $5 \frac{\mathrm{~g}}{\mathrm{c}} \mathrm{c}$. for stockers, and 4 c . to 4 tc . bulls, while canning cows were 3 c. . 3g̣c. per lb. Butchers were paying high as $7 \frac{1}{3} \mathrm{c}$. to 7 çace. for picked lots steers, and car lots of good sold aroun
6 flc., with picked lots of these at $7 c$ 7 c c . There was a very good demand for lambs, and Western stock sold at 6 agac. to 7c. per 1 lb . Ewe sheep were 4 kc . to 4 l c c
per lb . Grass-fed calves were taken shipment to the United States at 3 sac. to 4 c c . per lb., while local butchers paid from $6 \frac{1}{c} \mathrm{c}$. to 7 l c. for milk-fed calves Receipts of select hogs have been very
light of late, and as a result prices have advanced to. per lb. Selected hogs sol at 9 fl c. to 10 c . per lb .
Horses.-The market held about steady, and quite a trade was transacted. Heavy
draft horses, weighing from
1,500 $1,700 \mathrm{lbs} .$, sold at $\$ 300$ to $\$ 350$ each light draft, 1,400 to 1,500 lbs., $\$ 225$ to
$\$ 300$ each; light horses, 1,000 to 1,100 lbs., $\$ 125$ to $\$ 200$ each; broken-down, saddle and carriage animals, $\$ 350$ to 1oressed Hogs.-Prices of dressed hoge were higher, being 14łc. to $14 \frac{\mathrm{l}}{} \mathrm{c}$. per 1 b .
for fresh-killed, abattoir-dressed stock. Potatoes.-Potatoes scarcer, with grad-
ual rise. Drmand was good, and Green Mountains were 75 c . to 80 c . per bag, ox higher, ex store. Bags weigh 90 lbs.
Honey and Syrup. -The market fo Honey and Syrup.-The market for
honey and syrup was steady. White honey and
clover comb was 15 c . to 16 c . per lb.; ex-
tracte
 8 lc . Tins of maple syrup sold at 9 c tc. to 8c., and maple sugar was 9c. to
10c. per Eggs.-The market for eggs was firm,
and advancing. Strictly fresh and advancing. Strictly fresh eggs were
quoted at 41c. per dozen. Selected eggs
were 33c. per dozen, and No. 1 candled were 33c. per dozen, and No. 1 candled 29c., while No. 2 were 33c. per dozen.
Butter.-Last week, choice creamery was Butter.-Last week, choice creamery waus
quoted about the same as the previous
week, being 274 c. to 27 tc. per week, being 27 ctc . to 27 lc c. per 1 bb . in
wholesale way, and fine at $26 \frac{1}{4} \mathrm{c}$. to 27 c while second grades were 26 c . to 26 f c
Dairy butter was steady, at 22 c . to 23 c per lb. boxes, as against $1,507,000$ a year ago.
Prices show little change Prices show little change, Western, wr lb.
or colored, being 13c. to 13 y . per 1 lb . Finest Eastern, colored, was 12 fc . to
12ac., and white about fc. below these

$$
\begin{gathered}
12 \text { anc.,. } \\
\text { prices. } \\
\text { Grain. } \\
2 \text { Weste }
\end{gathered}
$$

Grain.-Oats were firmer in price. $\left.\begin{array}{c}\text { No. }\end{array}\right)$
2 Western Canada was quoted at 40 atc. per bushel, ex store; No. 1 extra feed at 40c., and No. 1 feed at 39 c . to 39 3lc.
Flour.-The market for flour was unchanged. Manitoba first-patent flour was
quated at $\$ 5.40$ per barrel, in bags; seconds being $\$ 4.90$, and strong bakers',
$\$ 4.70$. Ontario winter - wheat flour was unchanged, at $\$ 4.60$ te $\$ 4.75$ per bar
in wood, for straight rollers. Millfeed. -The market for millfeed w
steady. Bran was $\$ 22$ per ton, shorts
$\$ 27$. including bags. Mond to $\$ 32$ per ton for pure, and $\$ 28$ to $\$ 29$ for mixed.
Hay.-Prices of hay continued to ad-
vance.
 to $\$ 15$, and No. 2 was $\$ 13.50$ to $\$ 1$
per ton, ex track.
Hides.-Hides ${ }^{\text {were }}$ unchanged, but Hides.-Hides were unchanged, bu
lamb skins were up 5 c . Beef hides wer respectively. Calf skins were 1.5c. and
17 c . per 1 b . for Nos. 2 and 1, and lamb 17 c . per 1 b . for Nos. 2 and 1 , as lamb
skins 65 c each, with horse hides ranging
from $\$ 1.75$ for No. 2, and $\$ 2.50$ each for


Buffalo.
Cattle-C Canada was a liberal support to tho Buralo caitlo market tor the past woek, sending to this markot something Nor soo cars, distributed as tolows: day, 15. Wedneaday. 60: Thurodey, 80 day, 15; Wednesday, 60; Thursday, 30, week figured, approximately, 16,325 head. Market weaker throughout the week enddecline, figuring all the way from 25 to 40 cents lower than the previous week, on grass cattle, which have been plentiful, with choice, dry-fed kinds, ruling about steady. The general stocker and reeder market was about 15 to 25 cents under the previous week's level, bulls showing about a steady market, with good, strong market prevailing on milkars and springers. Best weight Canadian steers last week ranged from $\$ 7.75$ oo $\$ 8.25$, some very coarse, commonish
inds of strictly grass, shipping steers kinds of strictly grass, shipping steers, $\$ 7.25$ to $\$ 7.35$; best natives, $\$ 8.25$. In the dry-led line, best handy-weight steers sold at $\$ 8.25$ to $\$ 8.75$, with a bunch of
fancy yearlings (baby beef) bringing the lancy yearings (baby beef) oringing a few
extreme top of $\$ 9$ per wt . Quite a few handy steers ranged from $\$ 7.50$ to $\$ 7.7 \mathrm{~B}$ above $\$ 6.25$, all grades of fat females showing weakness, medium, killing cow
stuff showing as much of a takeof as any stuff showing as much of a takeof as any
kind. Best feeding steers have been good sellers, steors of good quality-reds and
roans, dehorned-which have been bring roans, dehorned-which have been bring
ing $\$ 7$ to $\$ 7.25$, but fairish kinds, and
the little, cheap the little, cheap grades, have been rathe
slow. Bulls were steady all week, one fancy $2,300-\mathrm{ll}$. Canadiain bringing $\$ 7.50$, the highest price for some weeks past.
Fresh cows and springers generally, $\$ 80$ Fresh cows and springers generally, ${ }^{\$ 60}$
to $\$ 110$. Shippers out of Canada are advised that the present request in the
butchering line is for nice, tidy, fat
sters and heifers, and in the feeder line steers and heifers, and in the foeder line
the demand has been strong for best
qualit. quality, reds and roans, dehorned. Good,
thick, shipping steers,' are being bought readily, going for Eastern kill.
Hogs.-Total hog receipts at Buffalo for
the week ending last Friday, 44,000
Market for week rather uniform, prices
since the opening day of the week being
held within a ten-cent range, running from $\$ 8.40$ to $\$ 8.50$ for packers ${ }^{\text {Pigs showed }}$ grades,
P5-cent range for the en tire week, selling from $\$ 7.50$ to $\$ 8.25$ i roughs, $\$ 7.60$ to $\$ 7.75$; something lancy
as high as $\$ 8$, and stags from $\$ 6.50$ to $\$ 7.50$.
Sheep and Lambs.-Week's supply, 87. 400 head. First part of the week was
low time on lambs, tops selling Monday low time on lambs, tops selling Monday
and Tuesday at $\$ 7.35$, values latter part and Tuesday at \$7.35, values latter part
of the week showing a higher range, winding up for the week with best lambs
at $\$ 7.50$ to $\$ 7.65$. Culls were about steady all week, ranging from $\$ 5.50$ to
$\$ 6.50$. s6.50. Handy sheep, active; heavy sheep,
slow. Best yearlings sold at $\$ 5.75$ to $\$ 6$. wethera, $\$ 5$ to $\$ 5.25$; wixed sheep,
$\$ 4.75$ to $\$ 5$, the top price for handy $\$ 4.75$ to $\$ 5$, the top price for handy
ewes being $\$ 4.75$; heavy ones selling at ewes being $\$ 4.75$; heavy ones selling a
$\$ 4.25$ to $\$ 4.50$, and cull sheep from 88.75
down.
Calves.-Week's supply,
2,125
head. Trade was active adl week, tops ranging
from $\$ 11.50$ to $\$ 12$, and culls mostly $\$ 9.50$ down, some selling up to $\$ 10$ to \$10.25. The supply of Canadian gras
calves was not as large last week as fo two or three past, and trade on these
has been good, the general range being has been good, the general range being
from $\$ 4.50$ to $\$ 5.50$, something real com
mon quotable down to $\$ 3.75$ to $\$ 4$. One mon quotable down to $\$ 3.75$ to $\$ 4$. One
deck of very good Canada grass calves deck of very good Canada grass calves
went to feed at $\$ 5.60$ and a bunch of

## Cheese Markets

 ling, Ont., 12tc. 21 c .. Woodstock, Cemp13c., 13 13-16c., $13 \mathrm{l}^{2} \mathrm{c} . ;$ Madoc, Ont.
12 M1-18c. to 12 qc .; Brockville, Ont
 Vankleek Hill, Ont.,
Belleville,
Ont., 12 cc
12
11216 c. c.; Ottewa, Ont., 12 he.; Cornwall Ont., 13c.; Perth, Ont., 12 gc . London,
Ont., bidding 13c., no sales; Watertown,
N. Y., 14lc.

## Gossip.


 25, by auction. Soo tho advertitement.

Attention is called to the advertisemont in this issue of Shropshire shoep, to bo
sold at Toronto, Friday, Nov, 21st, the sold at Toronto, Friday, Nov, 21st, Live
second-last day of the National Live second - last day of the National Show,
Stock, Horticultural and Dairy show, These sheep are contributed by J. G,
Hanmer and J. Lloyd-Jones, purford, Hanmer and J. Lloyd - Jones, furford,
Ont., and comprise a fine offering of Ont., and comprise a fine offering of
young ewes, ewe lambs, and rams. see
the advertisement, and attend the salo.

At an auction sale of young shorthore bulls and heifers, from the famous Eder
cote herd, held at Edgeocite, Banbury, England, October 17th, the top prios realized was 890 guineas, about 82,09 , $^{2}$
for the white yearling Missie bull, Edgo for the white yearling Missie bull, Edec.
cote White Eagle, purchased by sir B . Leon. Boxer, a red roone born in April,
1918, sold for 350 guineas, to $H$. If the 1918, sold for 350 guineas, to H. M. tho
King, and Edgeote Masterplece, white, King, and Edgecote Masterplece, white,
born February, 1912, brought the name price. Forty-nine head averaged 2181 18s. At the annual auction selo of
Shorthorns at Darlington, the same wook, the top price secured was 250 sulinens,
given by Senor Unzie, Buenos Airen, for Gainford King, a red, conilgned by Goorge Harrison. The average realized for 110

## HEREFORDS SELL WEST

 At the third annual sale of Horefordib, way, Iowa, Oct. 21st, thirty-ilve femalos sold for an average of $\$ 402$, the highest price reached being 8780 , for the three-year-old cow, Harris Princess 103rd. year-old cow, Harris Princess 193 rc .
Three others brought 8700 , 8750 and
3775. The highest price reached for $\$ 775$. The highest price reached for a
bull was $\$ 1,225$, for the yearling, Frins ull was $\$ 1,225$, for the yearling, Fais
view Prince, three othere selling for $\$ 700$, vilew Prince, thr
$\$ 77 \mathrm{~F}$ and $\$ 355$.
On October 22nd, at Harris, Mo., 68
head, the property of O . Harris © Sons, head, the property of 0 . Harris a Sons,
sold for an average of $\$ 378$, the top price being $\$ 8,700$, for the yearling bull,
Cay Lad 12th, the two-year-old bull, Gay Lad pth, selling for $\$ 1,500$, and the year ling, Repeater 18th, for $\$ 2,100$. The highest price paid for a female was 8550,
Cor the three-year-old, Princess R Ropeator

## for th 8 ra .

JUDGES FOR THE NATIONAL.
In the list of Judgee for the Natlonal
ive stock, Horticultural and Dairy Show, which opens at Toronto on Nromen whose presence wlll be a grananteo mon whe high standard which this now in-
of titution hopes to attain. With the ess stitution hopes to attain. With the or-
ception of a few classes, the list of judgen ception of a lew classes, the list of judgen-
is almost complete. The ready compliance of these gentlemen with the invite an to act as judges, along with the large number of advance entries recolved,
an ample indication of the important is an ample indication of the important
place which the National Live Stoolk, Horticultural and Dairy Show will occupy In this great Canadian induatry. Follow.
ing is a complete lift of the judgeo to ing it
Hornes.-Shires and Heavy Draft, T. J, Berry, Hensall; Percherone, R. Burgens Standard-bred, Dr. Rutledge; Ponlon Breeding Cattle - Shorthorna, Petor Wreeding Catte. - K. ., Pembroke.
Fat Cattle.-Shorthorns, Peter Whito. Grades, Crosses, and Export Stoorn.Peter White, K. C., and a dealer Butcher's Cattle.-A dealer. Swine.-All divisions, D. C. Flatt ramilton.
Sheep.-Southdowns, Geo, McKerrow. Oxfords, Hampshires and suffolks.-w. . Dryden.
Cotswolds, Lincolns and Loicenters.Grades and Crosses.-W. A. Dryden and Champion Winners.-W. A. Dryden an Champion Winners.-W. A. Dryden and
Jas. Douglas. If they disagree, a third as. Douglas. 11
is to be appointed.
Dairy Cattle,-Ayrshires and Jornoys,
Wm. Hunter, Grimbby; Holstelins, Geo Wm. Hunter,
Rice, Tillsonburg.



Isabella Valancy Crawford.
The Master Builder. By Isabella Valancy Crawforc - Lava builis on the azure see, And Love builds on the roso-wingod And
coum,
sometimes
land.
0. M Love build on sparkling sea, And it Love build on roses cloud.
To Love theoe are solid d land
o. Love will build his liily walls, On cloud, or land. or mist, or rean On cloud, or land. or mist, or sea,
Loveres solid land is everywhere i

Little Trips Among the Eminent. Canadian Poets.
By Clayton Duff
"Think not. O master, of the well-tilled
The earth is only thine; for after thee When all is sown and gathered and put
Comes the grave poet, with creative
And from these silent acres and clean
Bide with his wand the fancied after
yield
A second tilth and second harvest be, The crop of, images and curious There have been so-called Canadian poets. that remind us of the coachman Mr. Weller told about who "wrote an
affectin" copy $\mathrm{o}^{\text {" }}$ werses the night afore he was hung ;" hut gradually there has arisen a body of real poetry that may
be called Canadian, not merely from the fact that its authors happened to be of Canadian birth or residence. but because ut provides an interpretation of Cana-
dian life both in its outward aspects and Its inward spirit. From the earliest days of our history
there have been isolated instances of poetic talent. Sometimes it was an
'unlettered muse" and sometimes a pedantic one, and occasionally some one appeared of sufficient power to impress his name if not his works upon the popular
nemory. Such was Charles Heavysege memory. Such was Charles Heavysege, real, who looms, a hall-mythical figure, in the background of our literary his-
tory. Another was Alexander M'Lachan, a less-cultured writer, whose some

## w

 may be said that practically all our best poetry has been written by men and women still living, or by those who,while they have nassed away, laid down their work at such an sarly age that in eration.
Among the latter was one of the most eminent poets Canada can claim.
Isabella Valancy Crawford. Our regret Isabella Valancy Crawford. Our regre
at the loss our literature sustained by her early death, is deepened by the fact that it was in part ceaned by lack of
public appreciation. Her fame has been public appreciation. Her fame has been
growing ever since she died, but her growing ever since she died, but her
life might have been prolonged if she
had received a little of this belated recognition in those otruggling year when she lived with her mother in
rooms over a grocery store on King rooms over a grocery store on King
Street, Toronto, and tried to keep the wolf from the donr by her pen. Many of her loveliest pooms were contributed at that time to the Toronto Telegram, paper years afterward by Mr. J. W. Garvin when he. with some other ad-
mirers of the poet. was collecting mamirers of the poet. was collecting ma-
terial to publish an adequate edition of
her work. A small volume containing her work. A small volume containing
a number of her longer poems, "old
 Spookses" Pass." "Malcolm's Katy,"
etc., had been issuled before her doath, and while it was wargory praised by
British critics and brought her a kind letter froin Lord Duffering, the book wind
prastically practically unnoticed in Canada, and its
failure was a fatal disappointment its author.
Isabella was the daughter of a Dublin physician, who brouight his family to Canada in the fitties while the future successively at Paisley, Lakefield, and Peterbono, in Ontario. The parents were culturgd people who were able to edicate their children at home, but
poverty, sickness and death pursued the poverty, sickness and death pursued the
transplinnted household, and, at the time of the poet's own early death, only her mother and one hrother remained of the large family circle. The story of her
life reads like a tragedy, but the misfortunns were proudly concealed from those who would have been willing to help, and, in her poetry, the reader is sonal repining is intruded. She is the loast egotistical of poets, but trying to read between the lines, one would picthe a rich, ardent, nature, glowing with
zest of existence, wildly alive in body and spirit. The most alive in
ctriking characteristic of her poetry is its exaberance. It glows with color and imShe has such a wealth of ideas that they seem at times to clog the flow of her verse, and this is especially true of
some of her longer poems, where the mind is fatigued by the mere exertio of trying to visualize her thronging poetic images. Her shonter lyrics are that she reveals her greatest, thark, striking though. "The Helot" may be in its burning vindication of human portrayal of pioneer life, in its epio portrayal of pioneer life, or "Old
Spookses' Pass" in its humor and openair philosophy. The lyrics have an originality, vivacity, and beauty of dic-
tion, a nobility of thought and warmth of a a mobility of thought and warmth
of peeing that are thrilling to the lover of poetry. Among these poems. "Th Ghosts of the Trees" is glorious in th
sensc it conveys of the freedom sense it conveys of the freedom and
majesty of nature: "The Inspiration of Song" is marked by splendid imagina tion: "The Dark Stay"" by wonderful sustained imagery : "The City Tree" by to go back to Keats or Shelley for
passage that would surpass the description of the nightingale's song from "Sald The Daisy"

## "'No morn so sweet as this, so pure, so

Cod's bud time. so the oldest white
And she has lived so long; yet hers and
Such there, fresh white buds begem her
and ancient hean.
'And from her thorny bosom all last
Deep in my dew-sealed sleep, I heurd
So sweet a voice of anguish and dalight
I dreamed a red star had a bird-like
And that its rays wery music which had

- Mid the white-scented blossoms of the

And that to hear her sing the still night
With mept $\begin{gathered}\text { mists } \\ \text { morn., }\end{gathered}$ and dew until the yellow
"So sweet a voice of anguish and de-
light'" was stilled when. Phillips Stewart passed away in early manhood, that
though his work was largely promise, has been nwarded a place with the most resombl poets of Canada. There was a this young brevity of his life and the affection he
inspired in all who knew him tiveness to beauty and a melancholy cast of thought were the attributes of
Phillips Stewart. After reading the tender anguish of "The Last Sleep", or he sombre loveliness of "Hope," mere Waiety is apt to seem commonplace his magical way of using simple cons by words:

## n shadowy calm the boat Sleeps by the dreaming oar Sleeps by the dreaming The green hills are afloat Beside the silver

 eside the silver shore.Youth hoists the white-winged sail, The soft-told fairy tale the Beside the silver shore.

Soft lip to lip, and heart no wist, and hand to hand Unto another strand.
"And lovely as a. star They tremble o'er th Unto the joys they crave. "In a sweet trance they fare
Unto the wind and rain Unto the wind and rain,
With wind-tossed waves of And ne'er return again. "And at the drifting side, They see, a chancine deep Like phantoms in a sleep. "Slow hands furl the torn sail Without one silver-gleam,
And, sad and wan and pale, And, sad and wan and pale,
They gaze into a dream." Phillips Stewart was the son of
physician who resided in Peel count In the middle of a course at Toronts pean tour, and while abroad issued with a London publisher the volume of of
"Poems" that contain the slender body of his work. On his return he took up
the study of law. graduating with the degree of L.L. D.. but only it is said at the cost of his life. At Osgoode
Hall his memory is perpetuated by a

Men Notable in Canadian History Champlain-Continued.
Since we left Champlain momentous dings have happened. De Monts, atter Poutrincourt, had obtained a monoply the fur trade along the St. Lawrence ore year, and daring spirits ready forge into any wilderness he might were not wanting. Champlain and Paris. with his fervor for ther men unabated, and there were ace the in plenty who were willing to the sake of the emoluments of the furDe Monts, therefore, had little dimculty in fitting out two ships. The Pontgrave, that of the other to Champlain whose duties were to be to explore and to found settlements.
On the 5th of On the 5th of April, 1608, Pont-
grave set sail from Honfleur, and rave set sail from Honfleur, and eight
days later he was followed by Champlain, who, on whe followed by Cham-
nto The June, sailed nto Tadoussac only to find that Pont-
grave had mot with a mishap. His hip, it is true. was there, but so also was a Basquie vessel which had come to Saguenay. There had been from up the Saguenay. There had been a fight and
the Resques had came off victors, and he Rasques had come off victors, and arms, etc., on board the ship. On the arrival of Champlain, however, they
deemed
discretion the better part of valor, hastily signed a peace, and made oif as quickly as their sails could carry
tadoussac and quebec.
The Tadoussac of to-day is visited by
thousands of tourists annually. Those who go there courists annually. Those nestling among the hills of one of the most picturesque spots on the lower St. Lawrence. Following the long winding hatcheriey pass the Government fishin holiday dress. a number of habitant homes, and finally arrive at a little which is with a crack-voiced old bell, church in Canada." Yes to oddest finger of antiquity is even upon Tadoussac, but so long ago was the time of which we write, that no building was in sight
save the ruins of Chauvin's barrack built four years hefore, sign of human being save the camp of a band of roving Montagnais. Having routed the Basques Champlain
spread his sails and again the Don de Dieu sp.3d over the water bearing towards the setting sun. Soon the beetling cliffs at Quehec were reached, and. with the eye of a soldier, Champlain
recognized the strategic value of the spot. "On the strand between the water and the cliffs, his axemen fell to their work. They were pioneers of an


Where Miss Crawford Lived.


The Replica ef Champlain's "Habitation," as built in 1908, for the Tercentenary celebration of the Founding of Quebec in 1608 . The "Habitation" is the
building in the foreground, and was bullt on the site of the original, erected building in th
by Champlain.

The pencil of Champlain has preserved with the Algonquins againet the Iro the feature of the wooden buildings that quois. with the weaker, as it proved, soon were erected on the flat by the against the stronger. Henceforth the lapping water, and, following that rude
sketch, a perfect facsimile, no doubt seen in Canada had to face not only
the natural dangers of flood and forests, by many who read this, was erected three hundred years later-the buildings, whe walls, the loop-holed galleries, even
tone corner the "tall dove-cot like a belfry." The occasion was the "Tercentenary Celebration of the Founding of
Quebec,"" and surely the spirit of good old Champlain, were it privileged to be present at that anniversary, might have looked with wonder and pleasure at th
varied scene,--the fair city, blest in it site as but few cities in the world; the frowning citadel above; the wall-crownglacis ; the warships in the harbo
grim in war-dress. to be sure, but fying
the flags and pennone of a fete; the grim in war-dress. to be sure, but dying
the flags and pennons of a fete ; the
thousands of happy and gaily-dressed thousands of happy and gaily-dressed
visitors flocking everywhere, mingling with the kindly folk of Quebec who every
come.
But let us return.
bitter winter.
In September Pontgrave left for France was left with but 28 men to face the rigors of the Northern winter.-Alone it
the wilderness, truly for although ther the wilderness, truly, for although there
was a camp of Montagnals near, but was a camp of Montagnals near, but
little comfort could be reaped from their
vicinity. They were a superstitious vicinity. They were a superstitious
people, and more likely to come to the
亚 in case of emergency. A bad dream, wo are told, was sufficient to send them
flying to the fort. for admittance : when flying to the fort. for admittance; whe
In need of food they came also, as upon one occasion when a band of them, in starving condjition, reached the Levis shore. The river was full of floating
ice, but, desperately, the Tndians ice, but, desperately, the Indians ser ground to pieces helore the eyes of the
helpless Frenchmen. Those who escaped came leaping from floe to floe, and needless to say, were received with hind-
ness which their pitiable state demand-
ed. All this, however, told on the re-
sources of the French. To make matsources of the French.
ters worse scurvy broke out, and by the middle of May only eight men out
the twenty-eight were left alive. On the fitth of Tune, however, Pont-
grave arrived from France, and once more a grave crisis was passed.

A mistake
But a problem that proved in the en
as difficult as starvation, and scurvy had in the meantime presented itself. Indian warfare was obtruding itself upon the French. The fierce and warlike
Iroquois were pressing closely upon the Algonquins and Hurons. It seemed to
Chanplain necessary to take side in this issue, and so he made the only blunder
in his long years of administration of in his long years of administration of
against the stronger. Henceforth the
French in Canada had to face not only but also the hatred of an implacable enemy.
By the middle of June, 1609, Champlain was ready to help his allies in their first skirmish with the Iroquois, but was detained for a time by the
arrival, near Quehec, of some hundreds of Algonquins and Hurons, bent on seeing, before setting out on their warlike Journey the wonders of Quebec of which
they had heard. "(on their arrival," they had heard. "()n their arrival,"
we are told, " "they feasted their ayes and glutted their appetites, yelped conoternation at the sharp explosions of the arqueluse and the roar of the cannon,
pitched their camps, and bedecked thempitched their camps, and bedecked theme
selves for their war-dance. In the still night theif alr elared against the black and jagged clif, and the fierce red light
pell on tawny limbs convulsed with Pell on tawny limbs convulsed with
frenzied gestures and ferocious stampinga: on coutorted vilacios, hideous
with paint ; on brandished weapons, with paint: on brandished weapons,
stone war-clubs. stone hatchets, and stone war-clubs. stone hatchets, and
stone-pointed lancess ; whille the drum kopt up it hollow boom and tha air was split with mingled yells."
On the 28th of. Tune all embarked towether, Champlain in a small open boot whe blue water in the van of a flotilla of canoes filled with the copper-akinned warriors.
Reaching the mouth of the Richelieu River, the whole party encamped for two days, probably on the spot where now stands the town of Sorel, but leisand three parts of the number of Indians went off in high dudgeon. The rest followed Champlain up the river un-
til impassable rapids were encountered. It was impossible to take the boat up them, hence it was sent back to Quebec with the greater number of its men, only three of the Frenchmen pushing on
with Champlain towards the country of with Champlain
the Iroquois.
Paddling, portagtng, encamping by Padding, portactng, encamping by ittle army moved slowly on, retarded at every carap, by the necsssity the
dians felt for consulting the medicine man. He, as Parkman tells us, "pitched his magic lodge in the woods, formed of a small stack of poles planted in a circle
and brought together at the tops like and brought togethor at the tops like
stacked muskets. Over these he placed the deer skins which served him for a
 opening, hid himself from view.
Crouched in a ball upon the earth, he invoked the spirits in mumbling, inarticulate tones, while his naked auditory, squatted on the ground like apes, listen-
ed in wonder and awe." discovery of lake champlain. Finally the party passed into the
beautiful lake which has ever since that
day borne the name of the great ex-plorer- "Lake Champlain." Continuous-
ly they paddled along its western shore by night, for this was dangerous coun-
try, and on the 29 th day of July came try, and on the 29th day of July came
first upon a band of Iroquois near the spot now known as Ticonderoga. Next day a battle tooly place, the Iro-
quois advancing through the forest unquois advancing through the forest un-
der three chiefs marked by the tall plumes which they wore.
Presently Champlain advanced to the front. dressed in full armor, and the rroquois stared in wonder. "When ${ }^{1}$ saw them getting ready to shoot at us,"
he says in his journal, "I levelled my arquebuse, which I had loaded with four balls, and aimed straight at one of the
three chiefs. The shot brought down three chiefs. The shot brought down
two and wounded another. On this our Indians set up such a yelling that one could not have heard a thunderclap, and
all the while the arrows fiew thick on all the while the arrows flew thick on
both sides. The Troquols werg greatly both sides. The Troquois wers greatly
astonished and frightened to see two o astonished and frightened to see two of
their men killed so quickly in spite of their arrow-proof armor. As I was re-
loading one of my companions fired a shot from the wonds, which so increaeed
their astonishment that, seeing their chiefs dead, they ahandoned the field and fled into the depths of the forest."
The allies pursued the fleeing Indian The allies pursued the fleeing Indian night they began to torture one, and were about to hurn him when Champlain, sickened by the sight, interposed,
The best the warriors would do was to permit him to put the poor wretch out of misery by shonting.
Returning to the mouth of the RicheAlgonguanation came; the Hurons and Algonquins made of up the Ottawa,
while Champlain with the Montagnall from Quebec returned to the fort, and
thence ropaired to Tadoussac. "Here the squaws, stark naked, swam out to the canoes to recaive the heads of the dead Iroquois, and, hanging thena from their nerli In the first encounter the allies had
been victorious, hut reverses were to
(To he continued.)
Travel Notes.
(From Helen's Diary.) ${ }^{2}$ "There are tha Munich Beer Mugs," the car window. "We"ll be at the btar tion in five milnutea,"
"Beer Muse ?"
looking out of tha window and seelng nothing but level fields, clumps of trees and a line of roofs in the distance,
"What on earth do you mean ?"
".S "See those twin towers with the
"Yes. "It is. It's the Frauenkirche (church of Our Lady)-the biggest chiurch in
Munich." "But why-why Beer Mugs?" were wold over the counter, and earrle-


Old Church, Tadoussac
The oldest in America, save one, at St. Augustine, Fla.
oit oil paper platen to the beer gardens. We passed many nish Kitchens. The tah was cooked over trenches made in
the ground and filled with live coals. An elong the sides of the trench long aticks were stuck upright in the earth, the tops arching over the hot coals. On paled.
But the sausage factories were the places thet hypnotized us. We couldn't
sot awey from them. It was positively enthralling to see the rapidty with which cold hash assumed form and eolidity, and wan whipped off the grill viling hot.
"Let's buy some," said olivia, "T'm therling, and they do smell so good." Bo we got into the hunger line, and ancut aine minutes were handed out
a paper plate loaded with "red-hots," severkreut and bread. Then we adjourned to the nearest beer
garden to enjog our Baviarian feeat.
The place was so packed with people we The place was so packed with peoplo we
could hardly find a seat, but managed to equeeze in at a table, with a managed tolidilooking peasiants. They were just Anishing off a chicken, and, as they had mo plates but blts of wrapping paper,
no knives or forks but their own angers, the place looked pretty messy. Of course, if you sit at a table you
must buy something in order to keep must buy something in order to koep
your meat, so, when the waitress your seat, so, when the waitress
 mall beers
This ts where we showed our ignor-
ance, for at the Festweise smail beers ance, for at the Festweise small beers guart or go without. So we bought a quart, and it was brought to us in a
large stone stein. (These stoins hold ore litre). Olivia had never tasted beer before, and her initiation was a source of great. amusement to the people sitting moar us. Every time she lifted the beavy btone mug to her lips, her face bocame a mass of puckers, and she looked as it
uquid alum. "IEn't it awful ?" she would say, According to our western ideas, sausages and sauerkraut wast beer is not a very aesthetic combination, but it the Bavarian peasanitry. I wonder what thatr opinion would bs of mince pie.
They would probably think it was a Ther would pr
terrible mixture.

By far the most impressive sight at the Festwetise was the procession of beer enormous wagons loaded with kegs were drawn by huge horses fairly glittering with gold and silver ornamentation, and
driven by plompous Bavarians arrayed in gorgeous velvets in the fantastic fashion gorgeous velvets in the middle ages. Royalty paled bo-
of the Munich has been called the City of
Beer and Art. I don't know why they
put the beer before the art, but perhaps put the beer before the art. but perhaps
there are historic reasons. Can it be there are historic reasons. Can it be
that the beer is. the cause of the art? that the beer is. the cause of the art?
Whatever the reason, it is certainly true
that Munich is a great center for music that Munich is a great center for music and art. I like Munich. $\left.\left.\begin{array}{c}\text { T like it for a grea } \\ \text { many reasons. }\end{array}\right] \begin{array}{c}\text { It. is a moat attractiver }\end{array}\right]$


The New Gity Hall and the Twin Towers, Munich.
and beautiful cily; the streets are a lean as a newly swept room; there
are so many lovely fountains splashing n the sunshine: there are so many
places to go, and so much to places to go, and so much to see, and
do, and hear ; there are such splendid art galleries, and so much fine music and then the soldiers 1 Thiose music Bavarian-blue soldiers with their glittering helmets and shining buttone and
clanking swords. Every day they march to one of the public squares and give an open-air band concert, and every day there is a big crowd ther
listening to the music. sung to the music.
Munich is as flat as a pancake. The lect condition. After a rainfall they are so shiney you feel as if you were
walking on gigantic mirrors. Sometime at night after a very heavy rain the itreets appear like rivers, the roadway is so full of reflections and light and color. Motor cars coming along with
their glaring headlights look wike their glaring headlights look lik
launches ploughing through the water At such times Munich seems transformed into a Bavarian Venlice.
The architecture of Munich is very ings are imitations of celebrated bulldings in other lands, especially in It tally and Greece, that the streets of Munich are said to be the note-books of trave the Bavarian Kings.
ous, the new City Hall considered a sort of architsctural joke It is a most flamboyant structure, ane pinnacle with all sorts of odd sculptur al things in stone. including a mammoth dragon climbing up one of the cornars. wondered across the story in a book of old egends.
It seems that long, long ago, in the dragoo flew into Munich a monstrou the city gates and brought with it the plague. It went straight to Marien Platz (where the City Hall stands) and there it was slain. But the courageous
Munchener who killed it inhaled ita deadly breath and died immediately atterwards.
Apropos of the City Hall, there is Apropos of the City Hall, there 1s a
story told of a hamorous murderer ae he was being led to the scaffold: "Take me past the new City Hall that I may
have one moris good laugh before


The Terrible Dragon that is Always Climbing Up the Corner of the City Hall.


Curious Fountain in Munich




 givene witi nrais in the case of the Tomen emploges the unitrom is conned have been deasigned by a narrow-minded, malicious man who was opposed to the
adrancement of women, and took his
tol
 (aged Avol) would consadider too babyish to wear. The hape ing irfatil. enough, but oud have deeread that the color


 hat, than an anemic seamstreas otitch-

 Tho a rund race tho rizer tay the "Tear rolling rapiily," I have been kept avake at night trying to trrack

 toid, , and all those old things Iearned in shbol.
 It comes from I car't remember.
Aunt Julia said she thount it come of Byron's poems, but $f$ lut wash wher






 tull in the dark about it.

The Roundabout Club.
Re-opening of the Literary
In re-opening the rather unique Literary Society which has been so happily maintainzd in connection with our Journal by a number of "home" students during the winters of several years, it anthusiasm, an equal eagerness for work for work's sake, an equal generosity of
feeling among competitors are anticipated for the coming season. Ment Mally then,
Ment and may the members to-day shake hands
with the cordiality of old, and so all are ready for a new winter's work. the winter. 1. Write an essay on any poem sug-
ested by the accompanying picture. gested by the accompanying picture.
All essays to be received not later than 2. A subject suggested by one of the
members : "What I really want most in this world,- not what I may appear to trying for." Time limit-January 15th. These essays need not be long. 3. Write an essay on the follo
uotation:

Now who shall arbitrate
Time limit-February 15th.
4. Write a short story on any subj 4. Write a short story on any subject
you choose. Time limit-March 15th. As heretoltore prizes will be given to
those taking highest marks.
an endearing act.
Wife (pleadingly)-'"'m afraid, Jack, not as well as you used to."
Husband-"Why ?"
Wife-"Because you always let me get ap to light the fire now."
Hushand-"Nonsense, my love ! Your getting up to light the fire makes me
love you all the more."

The New Public Health.
"The Farmer's Advocate" Bureau of
Public Health QTESTIONS, ANSWERS, AND COMConducted by the Institute of Public
Health.-(The Public Health Faculty Health.-(The Public. Health Faculty
of Western
Oniversity, London,
ontario.)
IQuestions should be addressed: "New
Public Health, care of 'The Fer. Advic Health, care of 'The Farmer's
Adocate, London, Ont." Private ques-
tions, accompanied by a stamped, self tions, accompanied by a stamped, suelf-
addressed envelope, will receive privat answers. Medical treatment or diagnosis
for individual cases cannot be prescribed.]

After a good rest, the New Puble Health column is open again for quees-
tions, and discussion of subjects in Hygiene and Public Health.
Most people would Hke Most people would like to live well and pends on being well. This means more than not being sick; not being beaten. $\begin{aligned} & \text { Be- } \\ & \text { ing }\end{aligned}$ ing beaten hardly constitutes happiness, even for a dog A great deal has been
found out in the last few years about
these subjects; and especially that a great many of the old ideas on health,
as well as on happiness, are wrong as well as on happiness, are wrong.
This column aims to give the latest


Write an essay or a poem suggested by this picture.
best information all round-not fads or
fancies or theory, but up-to-date facts. We have ant immense amount to learn yet. Scientific investigaticn of publichealth questions is only about 20 years
old. So there are 6,000 (or 60,000 ). years of misunderstanding and accumurect. But we are on our way, and we want your help and co-operation so that
the new ventilation
Ventilation in the last decade or two
meant changed air. The word comes from "ventus," Latin for "wind," and was very appropriate for all method
which consisted in pouring a stream of fresh air into a building, while pour'ng for it.
But the question studied in the last four or five years with new energy and insight has been this-What is the "foul-
ness" of foul air due to? Why is foul ness" of foul air due ? all; if so, what
air bad, or is it bad at alt
are its effects, and what should be done are its effects, and what should
to get rid of them? In fact, the old doctrines of ventilation have gone through
the same rigorous re-examination that the same rigorous re-examination that
other public-bealth doctrines have met of late. No longer do we just assume that
things are bad; now we ask are they bad; things are bad; now we ask are they bad;
if so, how do we know they are, and in if so, how do we know they bad? For, unless we know all about how and why they act isisadvantageous we

Literary Society Study
spend vast a mounts af time, energy, and
cash, in fixing the wrong thing or fixing
it the wrong way; or we do far more making all reforms burdensome sand an pensive in the extreme, putting them beNo the reach of mest people.
No better illustration of how not to current methods been afforded than our ventilation, especially ventilotion regarding ter, when our efforts are still further complicated by the need to save heat as uch as possible.
The errors made
us and so mixed so far are so numerthat it is hard to know where or how begin unravelling them.
eople breathe it ? Right at the outset we are met by the question, How much can we rely on the fulness? We all know the smell of a stuffy room full of people. Is that foul
dor itself harmful? Or, if the odor is dor itself harmful? Or, if the odor is
harmless in itself, does it indicate some condition of the air which injures the body? What injuries should we fear prevent them; and how shall we best Now, of cour
pure air is ohiefly four parts of nitrogen mixed with one part or oxygen : also hat we take the mixture into our lungs,
throw back the nitrogen without using it, and bura up the oxygen, or some of it, changing it into carbonic-acid gas (car-
bon dioxide), which we also throw out an dioxide), which we also throw out
easonable that if we use the oxygen in
room this way, we will in time exhaust it; and must then die of lack of oxygen : also, if we only partly exhaus sick : also that the carbonic-acid gas we sick : also that the carbonic-acid gas we throw out will accumulate and poison us
in time, even if the oxygen is not used up. This is all theoretically true. If we
lived in perfectly gir-tight glass case日, we lived in perfectly air-tight glass cases, we
would run both of these risks. But we are really living in sieves, not tight boxes, so far as these two gases are concerned; for all our ordinary buildings aro pervious to oxygen and carbonic-acid gas
even had we no cracks round windows of doors, no chimneys, etc., our very wall would serve the purpose of letting is oxygen and letting out carbon dioxide. The fundamental law of diffusion of
gases which ventilation writers usually forget, compels oxygen, nitrogen, carbonic acid gas, ete., to maintain a uniform percentage everywhere. Thus, it there
were only 10 per cent. of oxygen in a room, were only 10 per cent. of oxygen in a room
the 20 -per-cent. oxygen surrounding that room and stretching round the world and up into the sky, tends to press into that
room and make it 20 -per-cent., too If room and make it 20 -per-cent., too. If
in that room is 1 -per-cent. carbonic-acid In that roomn is 1 -per-cent. carbonic-acid
gas, but only $4-100 \mathrm{th}$ of one per cent outside, that one per cent. onends to rush
out of the room and spread all ver out of the room and spread all over the universe to equalize the percentage out
of doors with that ididoors. The result
is that it it quite imposibibe to seriously
exhaust the oxygen of any ordinary room bonic-acid gas of any ordinary room to a dangerous point by breathing. Onily under the most extreme conditions coula
harm follow either way. Moreover, the harm foilow either way. Moreover, the
"worst ventilated" rooms, with the people in them suffering extremely from the "poor ventilation," practically zever show exhaustion of oxygen anywhere near
to the danger point, nor accumulation of carbonic-acid gas anywhere near to the danger point, even though the air smells bad, the lights are dim, people etc. What, then, is the cause of the heact ache, drowsiness, etc.? Why are the
lamps dim Why does a terrible etench
assail the nostrils, of him who comes into assail the nostrils, of him who comes into
the room from the fresh air outside ?
When it wes found that the "
of oxygen" was non-axistent, and that the "sccumulation of carbonic-mend ges" Was far below the polnt where bad effocts human body must throw of very poinonous substances in very minute amounte, from the skin or from the lungo, sub,
stances never isolated or examined, tact, not known. This was a very con-venient belief, for no one could woll dibpute it; if an investigator falled to find was easy to say that he falled bocause he did not know how to look for them. This theory has never had any
proof adduced in its support.
Ho adducod ha the support. However, all the air of a crowded room nomowhat polsonous, producing ofton a tired feoling, somewhat like that of the
"morning giter," "morning after."
Why? The foul odor is easily socount-
dor by something literally right under ed for by something literally right under "poison," but merely the accumulation of the individual odors of the individuale in the crowd; the amell of bad teeth, cater-
rhal noses, unwashed armpits, otc., ote., etc. That these odors oould generete
smellpox, typhoid fever, diphtheria, whes emallpox, typhoid fever, diphtheria, when accumulated in a crowded, room, elthough
the individuals who contributed them breathed individually these very odors, not during the meeting merely, but day and night continuously without harm, is too ridieulous for modera belief, not too
ridiculous for our foretathers to bollovo, however.
True, a very few super - sensitive people
might be psychically ditatressed, oven nauseated by such odors, but this to a imagination that t is hard to draw. Leaving aildo such the late comer, not the people who have breathed the air longest, from the begin-
ning of the meeting 1)-we have left two noticeable but usually unnoticed fectors-
the original heat of the room, added to the original heat of the room, added to
by the heat of all the uving bodies rowded into it; and the moisture throwe out by those bodies in perspiration and respiration. The adult human goneratee,
even while sitting atill, 'very much heat. At the same time, much water is throwie out from akin and lunge. Is brief, the atmosphere becomes hot and-humid, oven Hoggy. Hemee the dimmed Hghts; not
really dimmed, but ahining through mist. Hence, alloo, the headaches and dullniess, for everyone knows how damp
ir increnses, to our feelings, the effect: air increnses, to our fe
of efther cold or heat.
In brief, a crowded room produces, onditions of an exaggeration of the Ifelesis day in midsummer. hot, humid, Bringing in fresh air from outside ro haves these conditions a good deen, it he air in the room. of course, it it usually cooler and dryer; but if not, it elioves matters not a whit. Indeed, a oom properly cool and dry already, may an ailed by "fresh air"; as somotime in summer a closed house is made very ncomfortable by admitt
demp, outside atmosphere.
One point qurther; in still air, each person's own heat and humidity, surround him like a blanket. He warms the air ust touching him, more than the air at this blanket; at once you leel better Stop fanning; the blanket reforms, and you feel, by contrast, worse than over.
Modern ventliation consists, then, is Modern ventilation consists, then, in
three principles, very diferent lideod

## English Hand-made Lace <br> MADE BY THE COTTAGERS OF BUGKINGHAMSHIRE

 This is the old-fashioned lace made on the cushion, and was first introduced into England by the Flemisin their quaint old way
One Lacee were awarded the Gold Medal at the Peatival of Empire and Imperial
Exhbition, Gryetal Palace, London, England, for Seneral excellence of workmanship.





PAINTY HANDKIR-7OC.

MRS. ADDIE ARMSTRONG

o. 122.- -30 c . per ya

OLNEY, BUCKS., ENGLAND.
from the old, make-shitt of "Itresh alr," taken at random from the varying out
gide. Modern ventilation aims to kees
 keep the humidity at 60 per cent. of satu
ration, or near it , and to keep the air moving, thus removing the hot-air blanket around the body. Those who know
only the method only the method. of ventilation by whole
sale change of all the air in the room sail change of all the air in the room,
will probably gasp tat the story of recent experiments where people confined in a
room with mo tresh air in the ordinar sense, but with mechanisms to keep the old air at 60 degrees F ., 60 per cent.
humidt worked with in motion, lived and weeks 1
How shall we ach while waiting for the grad ventilation o catch up to the new digcoveries, and
sive us aystems SNE us systems of ventilation that wil
make us comportable; which is more much more, than most existing systeme Watch the heat and the humidity,
and keep the air moving. in winter is very different from that in summe
In summer, the general humidity tends
to be too high, at least in this part the world, and overcrowding makes it far worse. So, also, the heat is apt to be above 60 degrees $F$. rather than below
it. Fortunately in summer me do not have to stay in doors so much; but when
we do, the heat and the humldity ar hard to avoidi The air in motion, we
can protty mell sceure can protty well secure by fans-and, atter
all, is not this the sensible thing that ail, 1s not this the sensibe thing that
we all do, so tar as we can? In winter, the humidity is too low as a rule. ${ }^{\text {To raise }}$ it in a room, evaporate
water in the room.
At once the heat water in the room. At once the heat
has more effect: or in other word, has more effect; or in other words, one
feels it more, just as in in summer humidity makee the heat worse. In winter, this increase in humidity saves coal, for temperature of $6 \theta$ degrees is comfortabie
with the proper humidity, 60 per cent although a temperature of 75 degrees F . would be shivery, if the humidity were row, even in winter, the humidity may
room
rise too high, 75 per cent, or 80 per
 "unbbarable," and someone opens thent the
window, "treezing", everyone near it. It Window, "rrezzin"" everyone near it. If
while the humidity is high, the air
is chilled, the effect of the dampness on the air is geen in the penetrating cold so
well known in countries on the seat woll known in countries on the sea or Practical ventilation, then, means keepTing the temperature up to bo degrees $F$.
in winter down to
bo degrees $F$ in winter, down to 60 degrees ${ }^{\text {F. . in sum- }}$
mer : Keeping the humddity up to 60 per cent. in winter, down to this point in summer; and both summer and winter,
keeping the air in motion, if a blankeet of uncomfortable humid air forms round
one, whether the humidity be wnco one, whether the humer
fortable trom cold or heat.
H. W. HILL.

Announcements.

1. The Arts Department of Western University has thrown open to the public Hearth begrining wednesdes on Publ 5,1918 , at the Western University Build ings, st, Regitatration fee 81 . No other charge 2. The frrat of the Institute Public Lectures on Health will be held Thure day, November 20th, at 8.15 p . m. the public lecture-room of the Institute, corner Waterloo street and Ottaway ave nue. Admission free, Subject, Food
Adulteration. Fancies Adulteration; Fancies and Facts.
2. Clubs, Societies, Associatioms, etc. are invited to form regular classes from their memberships for systematic courses In Puhlic Health, subjects
lectures to be arranged.
Fees number of
nominal. Soctures be arranged Fees nominal
Surb courses will be held in the Institute of Public Health.
3. Free single
addresses 4. Free single addresses on Public-
Health subjects may be arranged for by Heanth subjects may be arrangeal tor by
nny club, society, etc., In ontario, with
 Filies, Seware Disposal, Contarious Dis-
enses, Tuherculosis, Typhoid Fever, Tce eases, Tuberculosis, Typhoid Fever. Ice,
Water Supplies, Ventilation, OvercrowdWater Supplies, Ventilition, vorecrow-
ing and Housing, Infant Mortality, Sex Hygiene, Germs and Disease, Vaccina-
tion, Food Poisoning, Patent and Other
Fnoidemica

## Hope's Quilet Hour.

Reflect the Sunlight Praise ye the LoRD from the heavens
Praise ye the Lord from the earth.-Ps. cxlviil: 1,

My soul, bear thou thy part,
Triumph in
Triumph in GoD above,
And with a well - tuned heart
Sing thou the songs of love
Let all thy days
Whate'er He send,
Be filled with prais
-Rev. Richard Bexter, 1681
Those brave words were written a long time ago, but they are as up-to-date a anything written to-day. We find ourselves facing always the problem of liv ing. The hours come to us one by one we have placed in their keeping. We cai never call one back and demand agail us humbly, as a slave bound to submit oo our royal will; but each one slips out of our grasp, unheoding our most pas
sionate prayer that it it will drop int oblivion that bit of our precious Hivin which it has secured. We are all-power rul over it in the beginning of its short over it as it slins away power at all lite, this life which we feel to be of ininite importance-to ourselves, at least,made up of these submisive, yet ifke white-winged angels, the thea mount lead up to the Throne of God from our home on earth ? Do they joyously lay
their shining offerings at His they tadly and reluctantly torced, or are up to Him their dark and heavy burden? That question is one we can and do anWe pray, 'cThy will be done, in earth as it is in heaven," but are we trying to answer our own prayer? Are we doing
God's win in heaven ? Read as the angels do 1 our text. Evidently we command the same hivace, workaday world, have bow beforg the awful majesty of God both young men, and maidens and children: let them praise the name of the Louto.
The hours are always momentous, ove
those
whitch Maeterlinck says: "There are as many eternal minutes in the one that comes boldy towas as with mighty shout and clamour indeed, it is we who tell ourrelves all hour that abides with ua tis ever for the and nervous guest, that will mille if it host be smiling, or weep it his eyes be sion to has been charged with no mis who should comfort the hour that he sought refuge within our soul. And he that who always finds words of peach the threshold whisper low to his guest of tunity for happiness escape us appor simplest causes of happiness should be Our business in life-at least one chied businoss-is reflecting the sunlight God's
world
withe. His Love lights up
wever-ceasing radiance. It ye fail to see the light it is our owh earth-born clouds of discontent allowed lessness to come between us and the unclouded heaven above. The sun is a ways shining-though our days may seem
dull and cheerless; and God's ways shining, to glorify our most a nary hours, but we too often turna away There is a wondertul stamment. in Egypt for irrigation purposes. he sunh steam, and yet no fuel but Five immense radiatos the needtul heat
 the sun's position chancer altomatically, a guze into his face and reflect his the
ance. ance. As a consequence, the life-givin

NOVEMBER 6, 1913
coes out to refresh the parched land. This also-like everything we s. Those who look constantly into the Face of God, reffecting His Love joyously to their daily living, are and encourage
than they know to cheer than they and sorrowful souls. We may be happy, if we will; not so much
by reaching out afterhappiness for ourby reaching out atterhappiness for ourselves as by accepting trustiuly every-
thing God sends. Sure of His Love, thing God mey come, we need not wait Sor outward sunshine before we praise
nd thank Him. David had many terriand troubles, and yet he said: "Every be troubles, less Thee." If our eyes are
day will I bles God continually our hearts
lifted up to Ge litted up to God continuall our hearts obey the comman-which seems some Lord alway." St. Paul urges the dut. of rejoicing on his loved converts in
Philippi. Over and over again he tells Philippi. Over and over again he tell them "shine as lights" in the midst of a erooked and perverse nation. They ha
plenty of troubles, and their faith in Gor was one great cause of earthly danger exposing them to insult, torture, or ment, be forced to give up all their earthly possessions or renounce Christ; and yet the friend who loved them was not troubled about their condition.
knew that the sunshine of God's love was about them, and told them to rejoice, a
he rejoiced, in the knowledge that Godhe rejoiced, in their rich Father-would supply all their

Most of our troubles are troubles thought. We are unhappy because on we love cares quarreling with other people. We fret because some cherisher
ambition does not succeed, because we are poor or afraid we may be poor, becaus We even permit our priceless peace of mind to be scattered to the winds by very trifing disturbances, Some little thing goes wrong in the household ar-
rangements, or someone else is out of sorts and speaks unjustly, and we forget that a God-sent hour is waiting to carry up to Him a treasure of love and good-
will, of peace and joy. Think of the hour. wearily climpang the stairs, welgh cross looks
down by our impatience, our cor or complaining words, our gloomy want
of faith in our Father's carefully-planned of faith in our Father's carefully-planned
providence. We might have been radiatprovidence. We might have been re We may be reflecting God's Joy to-day.
Are we? The next hour is humbly waiting our pleasure. Let us not waste it,
at least, in complaint and gloom. But one hour of seeking and finding the joy, which is always to be found if we will, is not going to make us shine as lights
in the world. The great sun-mirrors in In the world. The great sun-mirrors in
Egypt keep their faces always turned to
We can Egypt keep their races always turned can
the sun while daylight lasts. We coner shine never rest on our oars, can now and re-
in the sunlight which we saw
flected yesterday. Each ray must be Each ray must
dected
newly accepted and radiated to-day. newly accepted and radiated to-day.
s not enough to have loved and trusted
His past dealings with us-we God in His past dealings with us-we
must look for the love in His gits tomust The hours do not come empty-
day. The of love. "Good habits are not made on
 is everyday life. The uneventiul and commonplace hour is where the battle is lost and w. B. Be We are too much in the thick of the
battle to be able to judge rightly the battle to be able to everyday actions. St. John was, in his old age, a lonely exile, shut off from the opportunity o service or missionary speech. Perhaps he
seemed hard and meaningless, when then was ready and able to bear faithful witwas ready and able Yet, think what the
ness for his Lord. Yonder world would have missed if those wonder-
ful chapters at the end of our Bible had ful chapters at the end of our the mes
never been written. Think of
 Ase to the Church in all the ages. Think of the vision of the white -robed
conquerors who wrung sweetness and joy conquerors who wrung sweetness and foy
from tribulation. Think of the glorious vision of the golden City of God, "com-
ing down from God out of heaven, prepared, as a bride adorned for her hu St. John did not know how his trying
monthe of exile would be a blessing to
 ejes and heart on the sun Ho onily
did the reneecting, it was ohrist-the sum

 make tue of us, it wio accept in joyous
trustunnes everything
He
tends, thank Him every hour, saying :

## I thank Thee, uncreated Sun,

 That Thy bright beams on me haveshined."

DORA FARNCOMB.

## Books for Christmas.

The Vision of His Face"-50c., 75 c
"Star-Led to the Heights" -25 c . an
the william weld co., London, Canada.
some british press notices. "Let us recommend "The Vision of His hace," a book under whose shadow de catches the attention first by the exceeding appropriateness of its quotations. It ity."-Expository Times.
"One of the most spiritually beautiful and edifying books we have read for a long time. Miss Farncomb writes with an intimacy of knowledge, a purity and fervor of feeling, a passionate Christian though which simply captivates the sermon and many a life will be enriched by these choice meditations."-Baptist Times.
'"The purpose of the authoress is expressed in the preface; it is that she 'may help some who are weary and heart-sick
to see more clearly the Face of the King.' Many will be grateful to Miss Farncomb for a most helpful book; great deal of it, indeed we do not hesitate to describe as beautiful."-Publisher's Circular.
'in the garden with him,' a new book by the author of "Hope's by The William Weld Co., London, Ont.

A New Book by Dora Farncomb.
The many readers who have been helped and inspired by the writings of Miss Dora Farncomb in the weokly Quiet Hour of "The Farmer's Advocate," and the book first appeared a year ago, will be glad to hear that another book by her, "In the Garden With Him," is now ready for circulation. Bound in green cloth and lettered with gold, the little volume very attractive. Its contents need. no recommendation to readers of "Hope's Quiet Hour." The price is seventy-ive cents. Published by "The William We Co., London, Ont.'

## Women's Institute

 Convention.$\qquad$ Institute for Ontario will be held in the Canadian Foresters' Hall, Toronto, on Thursday and Friday, Nov. 20th and 21st. An interesting programme has been prepared, and it is hoped that as many as possible


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 hioniped eonelope riond

CANNING PUMPKIN
Dear Ingle Nook,-will you kinclly tell ne how to can pumplin so that I. can scriber to your valuable paper, athe Farmer's Advocate"? See Recipe I. M. S. mothod for canning pumpkin. $\begin{gathered}\text { Sor a } \\ \text { Some }\end{gathered}$ peoplo, after packing the cooked pumpklin tigs at intervals of a day, loosening the ops each time and screwing down as oon as boiling is fnished. This is a very sure way of killing all spores or
becteria which, if not killed, would spoil bectoria "Iruit."

RANCID FAT AND BUTTER Dear Junia,--Please advise as to what
to do with rancid bacon or ports; also butter that has got rather unpleasant me hints, so I can use same for cooking, if not for table.
If porls has become very rancid, it is best to use 10 ior soap-grease, as it is oovor, however, it may be a little of lat, clariffed as follows, and so made fit or shortening or frying. This is the method: Pare a large, white potato,
and cut it in three or four pieces. Put the fat in a pot with the potato and let come to boilling point. Continue cooking until the potato is brown, then rea large quantity of fat, use about a pint of potatoes to each gallon of fat. ${ }^{\text {a }}$ To sweeten the butter, use a pint of
new milk for each pound of butter. Cut the butter into small pieces and put into the mille. Heat gently until the butter melted, then set away to cool in a place free from odors. When the butter firm, pour off the milk and wark the ing, using plenty of cold water for ng, using.
nean

COOKING SCHOOL
Dear Junia, -1 , like a great many Ingle Nook for some time, but I now come for help. Could you tell me where here is a cooking school? And could you give me any information on it?
A SUBSCRIBER'S DAUGHTER. Durham Co., Ont.
There are Schools of Domestic Science Toronto and Hamilton; also, there is Write to these institutions for all further information.

We regret to say that the pattern manufacturing company has informed us water bottle cover, is out of stock, and will not be replaced.

The Scrap Bag serviceable ruching Out a plece of white tape the size of your collar-band and crochet to it a nar-
row lace edge of some pretty pattern, using fine crochet cotton. You will find that your frill will outlast many bought
ruches.
cleaning white beaver hats. Rub the hat well with French chalk and powdered magnesia. Put away for
several days in tissue-paper, then brush and shake out. If necessary repeat the treatment.

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One of the very best stimulants which We have is hot milk. Try sipping a
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other things.that scorch easily Ing, the dancer of
practically

or the Attention of the Particular Housekeeper

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1938
The People of the Whirlpool.
ISerial rignts secured from The Mac-
Millan Publishing Co., Toronto and Now York.] Chapter IV.
when barbara goes to town March 4. I like to go to a plain peoplo's play, where the spsctators groan and hiss the villain. It is a wholesome be freed from pentup motion maj cover of other people's tears and amiles the smiles triumphing at the and whic al ways winds up with sudden whecil leaving the nerves in a healthy thrill believe that I can only compreben the primal emotions and what is calle tn intellectual jargon mental dissipation and the problem play, in its many phhioes, appeals to me oven less than crude phyfical dissipation.
We have seen a drama of the people played quite recently, having been to
New Yorls to spend part of a "midwinter" week's vacation, which father insisted that Evan should take betweon two rather complex and eyo-straining
pieces of work. Speaking by the almamice, it wasn't. midwinter at all, but prespring, which, in spite of lengthening days, is the only uncompromisingly dieagreeahle season in the country - the
time when measles usually invades the village school, the dogs come slinking in guiltily to the fire, pasted with frozen
mud, the boys have snuffle colds, epite of father's precautions, and I grow desperate and flout the jonquils in my Wincow garden, it seems so very long budding spring. We arrived at home last night in the wildest snowstorm, of the season, and this morning Evan hav-
ing smoothed out h1s mental wrinkles by means of our mild city diversions, if now filling his lungs and stralghtening his shoulders by building a wonderful
snow fort for the boys.
Presently I snow fort for the boys. Presently
shall go down to help them bombard him in it, and try to persuade them that it will last longer if they do not squeere the snowhalls too hard, for Evan has prohibited "bakiag" altogethmaking up quite a batch at once, then out until they are hard really wicked missiles.
The process, unknown in polite circles here, was taught my babies by the Vanderveer boy during the Christmas
holidays, which. being snowy and bright, drew the colony to the Bluffs for coasting, skating, etc., giving father wade through that he threatens to absent himself and take refuge with Martin Cortright in his Irving Place den ridden many a night when the roads would not admit of wheelling, without thought of complaint, to the charcoal camp to tend a new mother, a baby, or proumonia, that is so common a disease among men living as these do on poor ally gitting checks of perspiration continually gitting checks of perspiration in the
variable climate.
During the holidays he was called to the bluffs in the middle of two consecutive nights, first to the the second assiatant butlor, who wag and wildily drunk, and being a recent acquisition had been brought to offliate at the house party without due trial, "'so
that he wouldn't be used up the next day," and then to the Ponsonby's whare
the family had evidently not yet gone o bed. Here be found that the patont, a visiting school friend of one o evidently not used to the whirl of the pool, had skated all day, and, kept going by unaccustomed stimulants, taken
half from ignorance, half from bravado, and danced the evening through at the club house, and thon collapsed. Her hostess, careless through familiarity
With it, had given her a dose of one of the chloral mixtures "to let her have a good night's sleep": but instead it had sent her into hysterics, and she was cal-
ling wildly for her mother the ling wildly for her mother to come and
take her home. Father returned from

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both visits fairly white with rage. No said, but at the cool nonchalance be The butler's summoned him. case. That of the young girl mover him to pity, and then indignation, as he
sifted out the cance sirted out the cause of the attack, in
order to treat questioning Mrs. Ponsonby resented mos in emphatically, telling him "'to attend t his business and not treat ladies as it
they were criminals." of were criminals." This to a man of father's professional ability, and one
of over sixty years of age in the bar-
gain.
"Madam." said he, "you are a crim-
inal.


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ter from Aunt Lot. Evan has taken the boys into the den for a drawing lesson, and the
solved.
We do not intend to have the boy Jearn any regular lessons before anothe fall, but for the hast two years I have
managed that they should sit stil and be occupied with aomething every morn-
ing, so that they may learn how to ing, so that they may learn how
keep quiet without its being a strain,keep quiet without.
shelling peas, cutting papers for jelly
pots, stringing popcorn for the hospita shelling peas, cutting papers a osital
pots, stringing poporn for the hospital
Christmas tree, seeding raisins with Christmas tree, seeding raisins with
dozən for pay at the end-this latter is dozzn for pay at the end-this latter
an heroic feat when it is accomplished
without an heroic feat when it is accomplistal-
without drawing the pay on the ind
ment plan-and many other little task ment plan-and many other little tasks, varied according to seaso
Ian has a quick eye and comprehension, and he is extremely color sensitive,
but healthily ignorant of book learning while Richard, how we do not know
buth hass learned to read in a fashion of his own, not seeming yet to separate let-
ters or words, but "swallowing the sense in lumps," as Martin puts it.
Yestgrday, before our return, the
weather being threatening, and the boy weather being threatening, and the boys, keyed for mischief, clamoring and un-
easy, very much as birds and animals easy, very much as birds and anima
are before a storm, father invited them to spend the afternoon with him in the study, and Martha Corkle, who mounts guard during my brief holidays, sa
that their paws were scrubbed, and the relaxed her vigilance, joining Effe in the sewing-room.
Artar many threecornered discussions as to what liberty was to be allowe
the boys in study and den, we decided that when they learned to respect books in the handling they should be free to
browse as they pleased; the curiosities, browse as they pleased; the curiosities,
rarities, and special professional literature, being behind
easily blass doors, could easily be protected by lock and key.
Father's theory is that if you want children to love books, no barriers must that being so much with us the boys
will only understand what is suited to their age, and therefore the harmpul will
pass them by. I was never bhut from pass them by. I was never shut from
the Hbrary shelves, or mysteries made
about the plain-spoken literature of about the plain-spoken literature of
other days, in spite of Aunt Lot's fum-
ting ing. I did not undorstand it, so it did
not tempt, and as I look back, I realize
that the book of life was spread before me wisely and gradually, father turning page after page. then passing the task
to Evan, so that I never had a shock to Evan, so that.
or disillusionment.
I wonder if mother had lived if I
should think differently, and be more apprehensive about the boys, womanwise ?
I think not for I am a sun-lovin Pagan all through, really born far back in an overlooked corner of Eden, and prefer the forceful father influence that teaches one to overcome rather than the
mother cult which is to bear, for so much is cumbrously borne in self-glorified martyrdom by women of their own veli-
tion. I know that I am very primitive in my instincts and emotions; so are that keeps us close, or so close, together.
Of course illustrated books are now the chief attraction to them in the
library, and yesterday, when father went thare with the boys, he supplied Ian, as
usual, with '"The Uncivilized Races of usual, with "The Uncivilized Races of
Man,", which always opens of itself at
the Man, which always opens of itself at
the Mumbo Jumbo picture, and as a great treat for Richard, took down the
three quarto volumes of Audubon's "Quadrupeds," and ranged them on a
low stand with a stool in front of it Then, being tired after a hard morning's work, he drew his big leather chair near
the fire, put on a.n extra log, and proche ire, put on a.n extra log, and pro-
ceeded to-maditate. You winl doubtless
notice that when father or husband close their eyes, sitting in comfortable chairs
by the fire, they are always meditating, and never sleeping, little nosey protestaFather's meditations must have been long and deep, for when he was startled
from them by the breaking in two of the hickory log, a gory spectacle met his
Richard was sitting on the hearth rug,
which he had carefully covered with Which he had carefully covered with
newspapers ; these. as well as his hands
and face, were stained a deep crimson, and face, were stained a deep crimson,
while with a stout silver fruit-knife he he
was hacking piecea from a great pulpy was hacking pieces from a great pulpy
red mass before him.

Checking an axclamation of horro
father started forward, to meet ard's cheerfui, frank gaze and the re quest, as he dug away persistently, to 'Please wait one minute more, dranpa I've got the heart all done, that blg
floppy piece is lungs, an' I've most madide the liver. Not the good klind that goe wif curly bacon, but a nasty one like What we wear inside
Then spying a medical chart with
colored pictures that was propped colored pictures that was propped up
against the woed box, father found the clew, and comprehended that Richard was giving himself a practical lesson to anatomy by trying to carve these organ
from a huge mangel wurzel beet that he rom a huge mangel wurzel beet that he
had rolled in from the root cellar. Did father scold him for mess-making, of laugh at his attempt that had littlo
shape except in his shape except ic his own baboy brain? No, neither; he carefully closed the
door against Martha's possible entrance door against Martha's possible entrance.
seriously and respectuully put the pre cious objects on a plate, to which he gave, a place of honor on the mantel
shelf, and possible all traces of beeet from face and hands in his sacred office lavatory, ho took Richard with him into the depthe of the great chair and told the happy
child his favorite rigmarole, all aboul the "three gentlemen of high degree," who do our housework for us. How the
lungs, who are Siamese twins, called the heart are siamese twins, called to the heart to pump them up some blood
to air, because they were almost out of work, and how the big lazy liver lay o one side and groaned because he ha drunk too much coffee for breakfast, and
had a headache.-until Richard really felt that he had achieved something. So the first thing this morning he set aboup making a snow mana, that he might pul
the beet vitals in their proper place nearly coet vitals in their proper placeen father with their loon tion. Though, as he told me, they wers accurate, compared to the ideas of mang
trained nurses with whom he had come in contact with whom he had come But where was Ian during the beel
carving? Father quite forgot him un til, Richard falling asleep in his arms.
he arose to tuck him up on the sole. A sound of the slow turning of large pages guided him to the corner by the
bay window where some bookcasee standing back to back, made a sort of
alcove. There was Ian, flat upion ing Je, while before him the "Wander lay Jew" legend. with the Dore pictures. Judgment-where the Jew, his journe9y
over, looks up at the ancels coming to over, looks up at the angels coming
greet him, while the little devils pull valn ly at his tattered hoots. It was not the jew or the angels, however, that hel wan's attention, and whose outlines he devils, one big fellow with cows' horn and wings drooping like those of
moulting crow, and a bevy of imps with moulting crow, and a bevy of imps with
young horns and curly tails who were pulling a hall-buried body toward the fiery pit by its hair.
Father explained the pictures in brief. and closed the book as quickly as possi-
ble, thinking the boy might be frightened in his dreams by the demons. Bu no, Ian was fascinated, not frightened.
he would have liked the he would have liked the pygmies to
come and play with him, and he turned to father with a aigh, saying, " "They're and pullers, dranpop. I guess if they
and
we med against Corney Delaney right," one of the boys' favorite past times being to play tug-of-war with the goat, the rope heing fastened to it queror.
Neither did Ian forget the imps quick ly, as some children do their impres-
sions, but strove to model them this morning, malking round snow bodies, car celery tails; the result being positively startling and "overmuch. like witc
brats," as Effe declared, with bulgin They unfortunately did not perish with the fort, for Richard doesn't like them;
but are now hudlled in a group under
the old Christlo barking at them. I started to record our visit to
Lavinia, Dorman, bue my "human dis., ments," printed on vellum, came be
tween, and I would not miss a word
they have to say for the "Mechlinia
albertus Magnus." which
of horr meet Ric and the re , that b


6, 1915
ho -rearest book in the world, though Tran disputes Cartright would doubtless preler - the
frat edition of Denton's "New York." rrst edition of Denton's New York."
In past times. when we have visited
fies Lavinia, we have been fairly meek yies Lavinia, we have been fairly meek ad deorous guests. Rollowing the pro-
 maper impossih
paper dolls.
paper dolls.
We had read her lament on the death of sociability and hack yards with many - imile, and. a sigh also, for to one
born in the pool. every ripple that stirs It must be of importance, and it is impossible for outsiders to urge her to
tepp out otep out of the eddies altogether and 6e not only a rarely curable disease to
those who have it, but an hereditary Ase as well. Evan came to the rescue, as we sat in the den the night before cour
departure. "Let us turn tables on Miso doparture. List time and take her to see
Livinia this our New York."' he said, "since we are
all guite tirred of hers. DDo you rememall quite tired of hers. Do you remem-
ber the time when we went to town to
ouy the trappings for the boys first tree and were detained until Christmas
morning by the delay of a cable morning by the delay of a cable I had
to wait for ? After dinner Christmas Eve we coaxed Miss Lavinia out with us
and bought half a bushel of jolly littl tons from street fakirs to take home, and then boarded an elevated train and
rode abont the city until after midnight, rode about the city until after midnight,
in an out the downtown streets and along the outskirts, to see all the poor
poople's Christmas trees in the econd poople's Christmas trees in the second
stories of tenement., cheap flats, and over little shops.
and sow she enjoved it
and said that she never dreamed that ement people could ber so happy :
finally waxed so enthusi finally waxed so enthusiastic tha
gave a silver half dollar gave a silver half dollar eac
ur little newsboys crouching over an on grating in Twenty-third set, and when they cheered her and
oliceman came along, we told the
old soul that policeman came along, we told the
oar old soul that he evidently thought ar a suspicious character, a counterays spoke afterward with bated breat
the dangers of the streets ght, and her narrow escape from arrest. We came to New York unsat
and without responsibilities to push and looked from the outside in."
"No, Barbara, you did knew that day six years ago, when we
at in the Somerset persuaded me to hecome a commuter and
let you plant a garden and to you plant a garden, promising never
to talk about servants, and you've keot your word. I was dubious then, but
now-if you only knew the r've seen among men of my means and to be these last paw years, the struggle water of it. The disappointment, the dinners given in cramped flats, the good
dine fellows afraid to say no to wives whose hearts are set on being thought 'in it,
and the wives, haggard and hollow-oyed because the husbands wish to keep the pace by joining clubs that are supposed-
ly the hall-marks Now York is the best place millionaire. everything in but. three-to be born ing "So you wish us to play bachelor girl and man for a few days, and herd Miss Lavinia about, which I suppose is the
pith of these hernics of yours," I said rather astonished. for Evan seldom preaches. "I never knew that you were
such an anti-whirlpooler before, and I' at times felt selfish about kesping you at the old home. though not since the boys came, it's so healthy for them,
bloss them. Now I feel quite reline and I arranged a little crisp curl that
will break loose in Wil break loose in spite of persistent
wetting, for men always seem to discourage curly hair, father keeping his
shorn like a prizefighter. This cyr sortens the ricour of Evan's horsesho acowl, and when $T$ fix it gives him a chance to put his arm around my waist.
which is the only satisfactory discussing plans for a pleasure trip We arrived in town duly a little before tortable travelling habits, this always
arriving at à new pace arriving at a new place at the end or
day. so as to get the bearings and be
adjusted when we awake adjusted when we awake next morning.
To arrive in the morning, when vinded until lunch, is reepyarsing the all the ate

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where in Canada by parcel post, duty charges paid.
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the best alarm clock insurance you ca
noon, dyspeptic at dinner, when, like as
not, some one you have wholly forgotten or hoped to is anked, to meet yout. If
the theatre follows, you recuperate, bu the theatre follows, you recuperate, but if it is cards (of which I must have a
prenatal hatred. it is so intense) with the apology. "I thought you might be tired and prefer, a cosey yaume of whist to going out," you trump your part-
ner's tricks, lead the short suits and ner's tricks, lead the short suits and
mix mix clios and spades with equal
oblivion, and, finally, going to bed, leave a bad impression behind that
causes your hostess to say, strictly to causes your hostess to say, strictly to
herself, if she is charitable, "How bara has deteriorated; she uned to be a good talker, but then, poor dear, living in the country is so narrowing." spend the day it is different; you generally keep on the move and go home to recover from it. And how men usually no matter how wide they keep thei doors open or how hospitably inclined they may be themselves. They seem to
be self-conscious, and ary constrained to alter their ordinary habits, which makes them miserable and feel as if they had
given up their free will and identity There are only two places that I ever dream of taking Evan, and Lavinia Dor-
man's is one of than man's is one of th3m
When we had made ourselves smart for
dinner and joined Miss dinner and joined Miss Lavinia by the
fire in her tiny library, we read by her hair that she was evidently intending to stay at home that, evening, for her head
has its nodes like hat its nodes like the moon. She has
naturally pretty, soft wavy hair with now and then a sliver streak running through it. I have often seen Lucy
when she brushes it out at mither when she brushes it out at night. But
because there is a dash of white in the front as if a powder puff had rested there a moment bv accident, it is screw-
ed into a little knob and covered with ed into a little knob and covered with
skilfully made yet perfectly apparent
frontle Irontlets to represent the different styles
of hairdressing affected by women of of hairdressing
abundant locks. No. 1, worn at breakpast, is the "most
reasonable. It is quite plain, slightly
waved, and ha reasonable. It is quite plain, slightly
Waved, and has a qew stray hairs care-
lessly curved where it lessly curved where it joins the forehead.
No. 2, is for rainy weather ; the curls No. 2, is for rainy weather; the curls
are fuzzy and evidently baked in; it requires a durable veil to keep it in coun-
tenance. Evan alls it the crater tenance. Evan calls it the "rasher of
bacon front." No. 3, is for calling and bacon front." No. 3, is for calling and
all entertainments where the bonmet. stays on; it has a baby bang edge a
trifle curled and a substantial atop to hold the hat pins ; while No. 4 the one she worn on our arrival, is an
elaborate evening toupie with a dour rolling over on itself and drompoing slightly over one eye while it melts into a butterfly bow and handful of puffs on
the crown that in turn end in a single
curl bhind We had a dainty little dinner, grape fruit, clear soup, smelts, wild
salad, fruit and conck, salad, fruit and coffee, and it was
daintily served, for Miss Lavinia always keeps a good conk and remmmbers our
dislike of the various forms dislike of the various forms of hash
known as entrees. The coffee was placed on a low mahog-
any stand by the library fire, and Mis Lavinia herself handed Evan a quaint little silver lamp by which to light his
cigar. for she has all the cosmolit cigar. for she has all the cosmopolitan
instincts of a woman who not only
knows the world but had heard her father discuss tobacco, and really enjoyed the soothing fragrance of a good
cigar.
As soon as singed Josephus had tiptoed in by the
fire, evidently fire, evidently trying to make up for his
shabby coat by the profundity shabby coat by the profundity of his
purr, Evan set forth his scheme to our hostess. W9 were to lodge and break-
fast with her, but after that she was to play our way, and be at our disposal
morning, afternoon, and evening, at luncheon, dinner. and supper, and ath at
gatme was to be the game was to be the old-fashioned one of
"follow the leader !", At first Miss Lavinia hesitated regret-
fully, it seemed so inhospitable thought to take ins to several parlor
concerts. Mre concerts. Mrs. Vanderdonk, she that
was a De Levster. was going to throw open her picture gallery for charity,
which would give us an orportunity to see her new house. In fact the under-
tow of the Whirlpool was still pulling at her ankles, even though she had
freed her head, and it seemed impossible to her that there could be any New York
other than the one she knew.

Finally her almost girlish vitality should allow her one evening that we Sylvia Latham to dinmer, she surrender-
ed.
ed. "Then we will becin at "Then we will begin at ance by going and looking at the clock, which pointed a few minutes of eight.
"Have you tickets? Isn't this a little sudden?" asked Miss Lavinia with of little gasp, evidently remembering that
her hair was arranged for the house only. and I I Rlwave no tickets, but Barbara cannot get in at one place and if we caanot get in at one place we try an-
other, for usually some good seats are other, ior usually some good seats are
returned from the outside ticket offices a few minutes before the play begins. The downtown theatres open the earliest, so we can start near by
way upward if necessary.
To my surprise in five minutes Mis L.avinia was ready, and we sallied forth, Evan sandwiched between us. As the corner of what was far away Greenwich Village, -at the time the Bowerie was blooming orchard. and is meshed in by a curious jumble of thoroughfares, that
must have originally either followed the tracks of wandering cattle or worthy citizens who had lost their bearings, for Waverley Place comes to an untimely end in West Eleventh Street, and Fourth off by Thirteenth Street before it has chance even to catch a glimpse of the river,-a few steps brought us into
Fourteenth Street, where flaming gat jets announced that the play of "JJim Bludso" might be seen.
". "Dear me people still eiaculated Miss Lavinia, ""do people still go to this theatre? The seventies to came here it was in the
lind." When we took our seats the play,
founded, as the bill informed us, upon
one of the Pike County Ballads, had be one of the Pike County Ballads, had be
gun, and Miss Lavinia soon became It is a great deal to be surrounded by an audience all thoroughly in the mood piece, plain people. perhaps, but solidly honest. Directly in front sat a young couple; the girl. in a fresh white eills
waist, wore so fat and new a wedding ring upon her ungloved hand, which the mised thin a tight grip, that I sur perhaps their humble wedding journey from which they would return to rooms" made ready by jubilant rela-
tivee, eat a wonderful supper, and begin $\underset{\text { The }}{\text { lits. }}$ The next couple were not so entirely geous garnet engagement ring, also vory new, merely rested her hand on her lover's coat sleeve where she could see
the light play upon the stones. the light play upon the stones. mearty rounds of applause, varied with Whistles and shonts from the gallery, the characters stepped forward, not in teel play houser. where victor and vanquished join hands and bow, but one by one, each being greeted by cheers, hisses
or groans, according to the part, when the villain appeared I found my eels groaning with the rest, and though Evan laughed, I know he understood. After it was over, as we went out into
the night, Evan headed toward Sixtty Avenue finstead of homeward. "May I ask where we are going now?" said Miss Lavinia, meekly. She had
really enjoyed the play, and heard her snixe once or twice at and proper time, though of course I preten-
ded not to. "Going ?" echoed Evan. "Only arounh with the usual pickle and cracker trim mings, there being no restaurant close by that you would care for ; then we supper in the pantry, if your Lucy ha not locked up the forks and taken hes
koy to bed. key to bed. If she has, we can us
wooden toothpicks." At first Miss Lavinia seemed to fee
guilty at the idea of disturbing immaculate pantry at such an lucy's
but liberty is highly infectious hour but liberty is highly infectious. She
had spent the evening out without prea
vious intent: the vious intent; the next step was to feel
that her soul was her

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When Writing Please Mention Advocate
$\left|\begin{array}{l}\text { scattered to mar the feeling that we } \\ \text { had salipped sutdenly out of the material } \\ \text { world }\end{array}\right|$ world. The shardows of the sparrows
outside
outes
filtted
upward on the stained glass windows unpara on on the stained
great chords had hroken tered as if the great chordd had hroken frea.
torm were trying to escape.
Now and then the door would open
softly and unaceustomed figures slip in and linger in the open space behind the pews. Aliens. newly landed and wan-
deriug about in the vicinity of theit water-front lodging-houses, music and a church appealed to their loneliness.
Some stood, heads bowed, and some knelt in prayer woman, lugging a gres bundle tied in a hlue cloth, a baby on
her arm and another clinging to her her arm and another clinging to her
akirts, put down her load, bedded the
hiaby, baby upon it, and began to tell her
beads. The service ended, and the people
scattered, but the organist played on, scattered, but the organist played on,
and the boy choir regathered, but less



 throwt tho misie to the omee

 market of the western world. The
temple and the table of the money temple and the table of the money
changers keep step as of old. Ah, won-
derful New York - .

Tho oftaroon was clear tatacato and ting. lingered ahove orange and dim
cloud banks at the end of the vista
But Cloud banks at the end of the vista
Broadway made.
"Are you tired. "Are you tired? Can you walk a Miss I.avinia, as we came out.
'"No, quite the reverse ; I think the I am electrififed." she replied brisklly. he said, we will go to Battery Park," "Brattery Park. where all the immi an idea! We shall catch smallpox or have our pockets picked!!", smallpox or
"Have you ever been there?" "Have you ever been there?" persisted
Evan.
"Yes, once, I think, when steamship pessengers landed at the barge office,
and of course I've seen and of course I've seen it often In going
to Staten Island to visit Cousin Iucrin tia.,"
Evan's only reply was to keep walking. We did not cross the "bowling
green." but swung to the right toward Pier 1, and took the path between old
Castle Garden and the point where one of the fire patrol boats
was resting, steam up and her Was resting, steam up and her nozzles
pointed, lance couchant wise.
a Miss Lavinia adjusted her glasses quick-
ly (she is blindly nearsighted), ly (she is blindly nearsighted), caught
her breath, and clung to Evan's arm as her breath, and clung to Evan's arm as
the fresh sea breeze coming up from the
Narrows wheeled her Staten Island divided the water left and
right. while between right, while between it and the Llang
ITland shore, just. leaving quarantine and
dland dwaring the smaller craft, an ocean
liner, glistening with ice, was coming on liner, glistening with ice, was coming on
in majestic haste. All about little tugs
puffed and snorted, and freighters passed punted and snorted, and freighters passed
crosswise, parting the floating ice and
churning it with their churning
disturbin Churning it with their paddles, scarcely
disturbing the gulls, that flew so close
above the water that their winge above the water that their wing
touched, or floated at leisure. The sun that had been gilding every-
thing from masthead to floating spar thing from masthead to floating spar
gathered in its forces, and for one mo-
ment ssemed to rest upon Liberty's
torch. sthrowing the statue into clear reCorch, throwing the statue into clear re-
lief, and then dropped rapidly behind
the river's night-rloud bank, and pres ently lights began to glimmer far and and
near, the night breath rose from the
$\qquad$
$\qquad$
$\qquad$ train than she had found use fler hed her
tongue, for whose feet should I stumber over on entering, quite big feet too. or
rather shoes, for the size of the man, rather shoes, for the size of the man,
but Martin Cortright's, and of course he
was duly presented to Miss Lavinia. was duly presented to Miss
(To be continued.)

Just Right for Winter!
Thousand si of people are now cosily
shod tor the worst weather in


## All Sizes

## For men, w

 men,girls.

## All One Price

 youths and . 17200 The Seotish Wet them, write us 203 Talboe Averue, Wpinipee


## Live <br> and <br> Poultry WANTED

$W^{\mathrm{E}}$ are now starting to popk

 | KETS. As soon as your birds are |
| :--- |
| ready we will buy them. $\begin{array}{l}\text { Feed is }\end{array}$ | readr we winay miem beod

dear, and there will be nothing gained by holding. Weitit totomy
Sor our Weekly Poultry Letter if you live west of
poultry to sell.
We supply crates and guarantee
prices f.o.b. your nearest station. We pay a special pricest station fed crate-fattened chickens
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an
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ville, $)$ Ont.

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Make Winter Driving Comfortable Thep keep the feet warm and coxy fin aury style of vehicle in coldest geather. There is no flame.



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Chicago Floxible Shaft Comp

Questions and Answers.







Miecellaneous.
Plant-Lawn Mixture 1. I am sending a flower and leal
which is in a poor state, but the best could get. Would be pleased to know
the name. 2. What is the begt lawn grass
Would white clover be good ?
C. G. Ans.-1. The specimen was altogethe Ans.-1.1. The specimen was altogethe
too smal and byody crushed to be her
tain in in identification. It. looked like tain in identifcation.
fall aster. tall aster.
2
and
and

Try a mix and as, Try a mixture of Kentuck,
blue
grass, red top
and
white Dutco clover, equal parts. Sow very thickly. Sun Spurge.
which 1 got in in my rape seed. ${ }^{\text {and }}$ Would which I got in my rape seed. Would
like to know it it is hard to destroy; also inse to now in is hard testroy; also
its name. It is sattered over about
six a pree. D. B.
Ans.-The plant is sun Spurge,
 Canadia in gardens and waste, places
especially in light, sandy soils. It it is
It especially in iight, sandy soils. It is
not usanly, troublosome in cult ivated
land, worked under a short rotation of crops with clean cultivation. Special
care is required to prevent the sead
rine tion ripening. ${ }^{18}$ the field is plowed and
worked this fall, and croos are rotate in coming years, it is not likely to be
very hard to get rid of.

## Gossip.

A big Ayrshire auction is to be held
 to close out the estate of the late Robt
Hunter, of Maxvile, Ont., and Ferndale Farm, Anhurndale, Mass., consignment
are herds. See the advertisement in this
her issue, and write L. F
Mass, for catalogue

## scottish clydesdale sale

 At Lanark, Oct. 14th, eighteen headof Clydestaless from the stud of Robert
Park. average of $£ 79$, the top price bein
£294. paid hy D , dams for the £294, paid by D. Adams, for the two
year-o:d colt, Ivanhoe of Brunstane, by
 On the same day, twenty head from the stud of the late Robert Chapman, John
ston, Gartcosh, sold tor an average ston, Gartcosh, sold for an average ${ }^{\circ}$
$£ 139$
12 s, , the highest price being 52 guineas, for a colt foal, also by Baron o Buchlyvie, purchased by J. Kilpatrick
A two-year-old fill, by the A two-year-old filly, by the same sire
sold for 300 guineas, and a fily foal by Apukwa, for the same price. oo the
same day. at Lanark, fifteen head of of mares and filles, trom the tudud of A. M
Simpson. Kilbide, Simpson, $\begin{aligned} & \text { Kilbride, sold for an average } \\ & \text { of } \& 48 \text {, the } \\ & \text { highest price being }\end{aligned}$ 280 $^{280}$ guineas, ior a two-year-old fily. on the
last day of the Lanark sales, 320 fillies and geldings averaged 842. "Clydes
dales," says the Scottish Farmer, ",
 mought is a foal or a call?
boter

## - a mell personage.

The lanky country youth entered the
vosssroads general store to order then crossroads general store to order some
groceries. He wns fourtean years old
 Mggns, rapidyly developines, are wont
cuase has voice to undergo sudden and
involutary involuntary changes from high treble t
low bass.
In an authoritative rumbling bas
vico bo sen

 | setto) "and ${ }^{\text {a }}$ |
| :--- |
| Well, don't |
| . | wait on both

the clerk.

CRAND TRUNK Between Toubonto Track Railway Toronto and other principal cities in
Canda. Also Doubl Track and
Sold



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The Triumph of Science a: Infallule destroyep of Rats, micee \& Beetles.

 marmiless to Human Beings \& Comestic Anlmals

 - SH COMMON STREAST. MONTRBAL,


Railroading
R

 full pariolatras.
DOMININON SCHOOL RALLROADNG


## 264 Page Bookon

 Silos and Silage Methods- ill just what you want



 cony atinte
this paper.
Sllver Manulacturing $\mathrm{CO}_{\mathrm{n}}$ Selem, ohto


AND ALL ABOUT GAS ENGINES


 noma ocramtuent
Y.M.C.A. ${ }^{\text {BROAPVIEW PRONOK }}$




## Where do we hide

 its brains?SAID a dairyman: "Where do you hide the do you mean?" asked our surrorised azent "Weil," saan the dasked our surprised aryman, "that Standard Cream Separator of yours is such a really won-
derful machine: it seoms to derful machine; it sems to know just what to
do and how best to do it, and it does some do and how best to do it, and it does some
things so much better than any other separathinss so muct better than any other separai
tor 1 ever saw, that it really seems as if it
must have brains of it oun must have brains of its own.".
When you come to think of it, it does seem, as that dairyman said, that the

Cream Separator must have brains of its own. For instance, think how intelligently it itoks atter the oithg. You never have to think about see-
ing if there is enough oil in the neck-bearing or any other part. The Standard attends to the oiling of every gear and bearing itself. It also keeps the discs clean by automatically depositing the foreign matrer from
the milk in the space between the boy the mikt in the space between che bow and the discs edges. And it also, handle. But the way it gets the cream from the mill, only allowing onetenth of a pound of butterfat to escape in every 1,000 pounds of milk skimmed, would do credit to the best money-making brains in the land.
Sce this bbrainy" money-making machine at our agents, or write direct for chatalogue and easy-payment offer.
The Renfrew Machinery Co., Limited, Head Offce and Worke
AGes Branchea at Suasex. N. B.; Sakkatoon, Saak.; Calgary, Alta
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at This Transformation

Unproductive Field

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Made it Productive
Write us about arranging
demonstrations, also for our demonstrations, also for our
free booklet; it tells you how the above facts were
Canalian Explosives

|  |
| :---: |
|  |  |
|  |  |

## BLAGK TWGHT LEMT STOVEPOLTSE <br> A Canadian Knight Distinguished Service Order Companion of the Range 

Questions and Answers. Miscellancous Ayrshire Calves. Will you please tell me, through your
paper, where is the best and cheapest por hearest to this post offlee, where I can get pure-bred Ayrshire calves? H. B. Ans.-We can only refer you to our ad-

Luxation of the Patelle. I have a colt one year and a halt old
which has had something the matter with his stifle ever since foaled. He seems to be all right when he walks, but when he starts to trot he drags that leg. There
is a soft lump on stife the size of goost egg. The colt is healliny. Could

Ans.-The trouble is luxation of the patella. Seeing that the colt had the
trouble when droped, the trouble may crouble when dropped, the trouble may
not yield to treatment. However, tie the colt so he cannot bite the parte. Clip the hair ofl around the syllifg.
and blister with two dram and blister with two drama, ach of
biniodide of mercury and can mixed with two ounces vaseling Rub well with the blister once daily ${ }^{\text {/f }}$ or two days. On the third day wash of and apply sweet oil. Let loose now and oill
every day until the scale comes oflt every day until the
Repeat if necessary.

Gossip.
Barber Bros., of autineau Point, Que, tober for thelr annual importation oo Clydesdales. In a setter recelved trom Mr. Barber, he assures us that his selec
tion will be as good as money can buy tion will be as good as money can buy,
and judging from the superior character end quality of the many pest importe tions made by this firm, we look for
something real good when Mr. Berber returns. Parties interested will be conthese coiumns for the review of this lo when they arrive.
E. H. Dollar, of Heuvelton, N. Y., in
changing his advertisement in these colchanging his advertisement in these col umns, reports the sale from his "Fair-
vlew Farns," of one of the best sons of
Pontine Korndyke, $\begin{aligned} & \text { Pontiac Korndyke, to D. E. Summers, } \\ & \text { Winchester, Unt. He is out of a two }\end{aligned}$
$\begin{aligned} & \text { Ont }\end{aligned}$ year-old heifer with a record of 19.82
lbs. of butter libs. of butter in seven days, averaging
4.9 per cant. fat. $\quad$ The sons of Pontiac Korndyke are proviug great sires. One
of them is the sire of the world'b-record cow. K. P. Pontiac Lass, and another Brookdale Korndyke Netherland. Collver V. Robbins, of Riverbend, Ont., took an-
other son of this great sire other son of this great sire, and out ot
a three-year-old heifer with a record a thre-year-old heifer with a record of
20.87 lbe . of butter in seven days, averaging 4 per cent. fat. A large number
of Holstein breeders in Canada have selected herd-headers from 'Fairview Farms" in the past, and Mr. Dollar al-
ways has something good to ofler. See his advertisement.

During the three days of Shorthorn
salea in Northern Scotland sales in Northern of for a wonderfut head wef fly $£ 31,000$. Shorthorn breed-
total of full
ink ohvily ing onviously is a prosperous business in
scotland. and agreat enthusiasm was shown at the sales by a large and repre
sentative conpany of breederi irom all
parts of the country. Forel ; parts of the co natry. Forelicn an
Colonial buyers were present in large
numbers, and the numbers, and hiti, ed the bidding consider
ably. For the firat time in the hilistory ably. For the arkt time in the history
of the rollynie sales, the bul, calven
were sold after having undergone the cuberculin test. The female stock at
Newton has always been of a very high Newton has always been of a very high
standard, and it is Interesting to know
Chat ten Cliperater standard, and it is interesting to know
that ten Clippers realizd $\mathbf{~ 2 2 , 6 9 8}$. An
analysis of the salu list of tha analysis of the salue liant of the femates

br ngis out the following record of aver| age prices for some of the leading fami- |
| :--- |
| lies disposed of |




 Princess Roynls, 99113 s .
Brawith Buds, $£ 70$ bs. 9 d .
 Mount Birds antAnimals




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Single Barrel TRAP Gun and watch your scores climb. No dusted patterns. Greener Pigeon Guns have been winning live-bird events for the past
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W. W. GREENER 63 and and Riae Maker MONTREAL, P. O. Catalogue A4 mailed free.
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THE LAME HORSE to never curgameon
 Letter No. 1. Orreann. Vermont, April26, 1012.

 what you think. -ec., ecc. 1 determined to. Letter No O . ${ }^{2}$.









 148 Van Hor CHEMICAL CO. Druplationerywhere voll sove - The - Horee
WITH CoNTIACT, or bent by we Expree

can be curpd, nor merely of the hable, but
of ite cause. The Afoott Imetitute hee
 The Arnott Insititute, Berlin. Ontario


## Questions and Answers.

 Mieceliancous.Wart
Whan a heirer coming two years ol Would you advise me, through your valu wart come, what to do, as she had is growing quite large, and seems to be spreading all over inside of ear
Ans.-Repeated applications of castor oil sometimes are eflective in removing warts, but we would try applying a lit tle butter of antimony with a feather. Ba careful not to get any of it on fhe surrounding tissue.

## Colt Lame.

Spring foal is lame in hind leg. When moving to makes a clicking sound.
suBSCRIBER. Ans.-This is luxation of the patella,
commory called stifled. commonty called stifled. Tie so he canfrom the parts, and rub well with a
blister composed of 2 drams each bister composed of 2 drams each, of
biniodide of mercury and cantharides mixed with 2 ounces of vaseline, once
daily for two days. On the third day daily for two days. On the third day
wash off and apply sweet oil. Let loose now, and oul daily until the scale comes
off. Repeat in a month if necessary Fistula-Abortion. in 1912, running in field with foal. My veterinarian treated her for two months
or more and cured her. Hos not or more and cured her. Has not been
worked since spring of 1912. Would it we safe to keep her to work and breed, or is the fistula liable to come back on
her again? her again
2. Clydesdale mare raised two colts; next two caine: one at 91 months, and
lived ons day, and the other at 10 months; it was dead. She was not overworked. Had no toal this year, but is
with foal now. Would it be safo to with foal now. Would it be safe to keep
her ? Would she be liable to drop next foal too soon? Give cause and remedy if any.
Ans.-1. Fistula is always carised by injury. If a complete cure has bee effected, the mare
work and to breed.
2. No one can te 1 whether or not this mare will raise the colt she now carries. Give her good care, the best feed, give regular and sufficicnt exercise, and watc her carefully for signs of abortion. Property in Bees. A owns and lives on a farm on which
there is a bush. $B$ B containing bees. B cuts said tree and takes honey without telling A that he
found it, and without asking A's permishad discovered the tree before B, but, if
hat so, he had no mark on or around the
tree to indicate that he had found it. A threatens to prosecute B.

1. Now, as I undersian
A can do is to make B pay the law, all or the tree, which will give B the owner
ship of tho tree to do as he pleases with Am I right ?
2. Or can A prosecute B for trespass. ing on his ( $A$ 's) property, while he (B)
was hunting or cutting tree, $B$ doing absolutely no harm or injury to any of A's property, other than the tree, white
doing so ? 3. If him, can B compel A to let him irespass and make a road on his (A's)
property for the purpose of removing tree?
4 . Would the fact that a had founa the tree before B alter the cose any? Ontario. QUANDARY.
Ans. -1 . We do not think that you are ioht: ${ }^{\text {nn }} 1$ we wonld reter you to Chapte
18, of the Ontario Siatutes of 1910, for the legilation on the subiect
3. Nssuming that A was the dis coverer, we are in lined to think that
could rmasonatis prosecute B for tres rass. We to not see how B could possibly
4. become legaily entitled to remove the tree
itself in any way, otherwise than by itself in any "ay, otherwise than
agreement with A .

- 解 J-M ASBESTOS (in. *) ROOFING
mlindo of Abbeator nod Trimdend Laki Anshalt-all



Notice to Importer C. CHABOUDEZ \& SON


 CORSE AND GATTLE INSURANCI Againat Death by Accident or Diseane

 The eonoral Animals Insurance Company of Canade Messrs. Hickman \& Scruby Exporters of Pedigree live stock of all description Hlustrated catalogues and highest references o
 the worrd there is a shortage of wool and mutton
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matinatin a high standard. Prices a and terms to suit.

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 out and send to us teling how he hate how long animal has been lame
the gat lits age. We absoiutely guarantee Mack's s1,000
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ness and every form of lameness nffecting hess and every form of lameness affecting
tho horse. We have deposited Ono Thousan
Dollars in the bank to back up our guaranDollars in the bank to back up our guaran-
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Billor Drus Co. Binghampton. N. Y. LYMAN BROS. CO., LTU., TORONTO, ONT.

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onlp preparation in the world guaranteed tokill
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Shires and Shorthorns



Gossip.
held at Sanama-Pacific Exposition, to be
hencisco in 1915, will cover 635 acres, and will have a frontage on San Francisco Bay of two miles. hllton farm holsteins and Under TAMWORTHS. the R. O. P., the splendid Holstein herd of R. O. Morrow \& Son, of Hilton, Ont., on ordinary feeding, with ordinary care, and with morning and evening milking
on y, have made the remarkable recordo
 ihre--year-olds, and 10,000 ibs. for two-
 show in Peterboro, in the dairy test, they
won first in mature-cow class and second on twrotin mature-cow class and second
in theien class. This is cer-
tainly a wonderful tainly a wonderful showing for this herd,
and worth particular notice for anyon wanting brearticular stoctice for anyone
side the their sires
side the ting side the breediny bas been on official-
record lines for many years, as richlybred bulls have al ways been in use. The
young things are the get of Bivers young things are the get of Riverside
Joh. nna Wayne, whose four nearest dama have records averaging 224 1bs. in seven
days. For sale are a number of heifors days. For sale are a number of heifers
and four oung bulls, two of them year-
linss
 of breding age and youiger, and two months-old boars, all from prize-winning
sires and dans, bred from imported sires
stock.
choice lot of shorthorns at The seventy-five head of scotch ShortKyle Bros, at Ayr, Ont., will certainly be a surprise to any Shorthorn admirer that visits the herd with out any previous
arcuainiance with it, or knowledge of arguais tance with it, or knowledge of
the essentiallly highh-class character of the dierd as a whol. The splendid unform-
ity of modern type, the Jand or modern type, the heavy fieshing
and nice, level lines, so conspicuous all through the herd, are due to years of
systematic breeding al breed lines breading along the best-hown a thon sistent culling of all not reaching the
hixh standard of of ideal in vogue ever since the foundation of the herd a decade ayo. 1 mported and Canadian-bred, their
b.ood 1ines are all that has made nodern Shorthorn the most perfect and benutiful of all the bovine tribe, and on them are the get of the great Bapton Chan x llor (imp.), the Toronto junior
chamuion: Imp. Clipper Chiel the present
 Imp. Newton Ringleader. The last
mained, now at the head of the herd, is nand, now at the head of the herd, is
fast making a name for himsell as one one Past making a name for himsell as one
of the grat sires in the breed's canadian history- Hish.class show form is much in evidence in many of his get, and
he is yet scarcely at his best.
Assisthe is yet scarcely at his best. Assist-
ing hin in service is the roan two-yearing him in servicis is
old, sonpareil Ramsden, a son of Imp.
old Nonfareil Archer, and an imported Miss
 in only moderate fifld condition, in a ${ }^{\text {a }}$
class or seven, he stood in the midalle,
three on ench side three on each side. Another year, prop-
erly fited, as he will be, it will certainly tateo, as hething sensil set onal tor beat
liv. Very many Toronto, London and
him.
 this herd, but $n$ ver in the herd's history
has it, con'a ned so choice a lot of
 Bulls, as D.w. sons and daughters or
Imm. Newton Ring.eader. and Imp. Scottish Pride (who we forgot to mention
whicn speaking of the sires in use).
Individual mention among so namy good
ones cannt be attempted. Toronto ones otawa winners this year included
and otren
nan; firste, and the ottawa chamnionnan": firstes, and the otawa champon-
shm or or best female any age, and funior hu 1 chamnicnship at Toronto. Eight of
these so so thy thin ts were exhibited, and
$\qquad$ one sre an hono that added ot the
fa.me of Imp. Newton R ngleader. This if the (1" aity of yo ing bulls and heifiers
that the Mresrrs. Kyle are offer ny for
 are scourine the country, and the tardy
buyer may have to take the poorer ones.


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lions that you can get lions that you can get
business with. Mares that are breeders, for they have all raised colte and are now in foal to the best horses.

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3
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 T. H. hassard

Markham, G.T.R., Locust Hill, C.P.R.
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Save time, money and worry. SEND FOR bOoklet K Neverslip Mfg. Co. U. s. Pactoriee: New Brunswlck, N. J. Canadlan Factory:, Montreal Canada,
S59 Plue ix ive., Multoonneuve. Ineted upon the

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will remove them and leave no blemishea Reduces any puff or swelling. Does not worlked. $\$ 2$ a bottle delivered. Books $6 \mathbb{K}$ free ABSORBINE, JR., the antiseptic liniment for man
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we will quote ver we wind quote very prices.
Consultation by
Aplomed veterinary doctor. For any Hecases, write and consult him now

Aberdeen-Angus of Show Forme the season my offering in young bulle and helfer


## Questions and Answers.

## Veterinary.

## Melanotic Tumors.

Gray mare has a lump about the size of a goose ege on each side of her head,
one just under the ear, and the othe one just under the ear, and the other
further back. They are not sore. Ans.-These are melanotic tumor which are not uncommon in gray horses They will probably do no harm unlese
they become quite large. They can bo they become quito large. They can b account of the blood-vessel of the part it would be very dangerous for an amaBursal Enlargements. I have done some driving with a two
year-old glly. About two monthe a swelling like a wind-gall appeared at fetlock joint. It has increased to the size of a hen's egg, and is quite harr.
She is a little lame. She is a little lame
Ans.-Give her a few months' rest, and a blister made of 2 drams each of biniodide of mercury and cantharides, mixed off. Tie so that she cannot bite the
ofle part. Rub well with the blister once daily for two days. On the third day apply sweet oil let her loose in box stall. Oil every day until the scale
all comes off.
v.

## Miecellancove

Mating Turkeys
Would it be advisable to keep the same years in succession? and gobbler thre years in succession? I have them two
years now.
W. M. . Frovided they Ans.-Provided they have been good
breeders, birceders generally give better resulty, ol young ones.

Stabling Queries

1. How rich should cement be mixed for stable fioors?
2. Are cinders satisfactory for grading under concrete? Is it advisable to have
a gutter for cattle, also a gutcer for cattle, also or horses, and
if mo, how far fiom manger, and how deep, and also how much slope should
floor have?
SUBSCRIBER. Ans. -1 . About one to seven. 2. Broken stone or good gravel would
be preferal, le. A gutter is advisable. Stalls are built different lengths. Horse
stalls should be from eight to nine and cattle stalls from $4 \uparrow$ feet nine fee or where large cows are stabled, 5 fee

The Right Karakule. The production of Persian lamb, that
lustrous, tightly-curled fur so much in demand for winter caps, has been fo generations monopolized by the herdame
of Bokhara, Southern Russia, Persla, and Alghanistan. Now, an American in vestigator claims to have imported into
the United States, Karakule sheep, which he hopes will enable Americans to pro-
duce the much-prized fur themselves, According to the investigator, there are sereral varieties of the Karakule sheep, mixture of an Atghan fine-wool strain which is very objectionable. A close
examination of thesser examination of those will reveal an
underlayer of short, aull, fine wool, con underinyer of khort, anl, fine wool, con-
cealed beneath the long, lustrous, coars nutside covering. If animals of this type are imported for Karakule sheep breed-
ing, the result will be alailure. ing, the result will be a failure.
The right kind of sheep, from whic the ienuine Persian lambly is produced, are
the Arabl and the Dooztai. Thest ar closelv related but the latter is larger
The inventigator mirnis have proved that by crossing a gocd ram of one of these breeds with a
ewe of some lony-wool common variety tained wihh a more lustrous and mor
tightly curlad fur than if both sive and
dant were Karabulca Nammere karakuler of an inferior kind.
Candians will he interested in these that :hure is some prospect of the new
industry heiny established in Prince Fdward Icland, with hadquarters at Char if the Island Province will still further
augment its resources by adding the production of Persian lamb to its already
famous silver foxes.-Conservation.


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Sir Abluekerk, whose Sir Abbekerk, whose four nearest dams
have records averag ng 26.43 lbs. Fron have records averay ng 26.43 lbs . From
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faction they have given thive pucher faction they have given their purchasers,
is fo nd in the repeat orders continually is to nd in the repeat orders continually
coming in. Forty-two head now const turies the herd the masority of them of the milking Anchovy tribe, probably one of the best all-around. Keneral - purpose
tribes in oxistence. others are daughters and granddaughters of Imp. Nor
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tional draft character, and his underpinnind is strong and of good quality. He
will make consid rahaly over the ton when will make considorably over the ton when
Teveloped, and the man that owns him
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Joun nal, ,and is worth reading : Begin slow and go slow. Grow up Wra your work. Many of our most Is you start with pure-bred stock, don't start with show stock, but rather at the you will meet discouragements ant on and you will be successtul in the If you start with grades, use nothing but purebrct rams. Sell y your culls to the
butcher rather than to the nolize. The butcher rather than to the no ivee . The
sheep is a very bad animal to doctor, therefore keep your flock healthy. Be
careful not to buy disease with flock. Sell your customers a good animal; ; means doing business ultimately
with their friends. ingly changing breeds; be a sticker. that which you are handling to pieces. Have singleness and tena.ily of purpose. disaster. Keep salt, worm powders, frcsh water beore your flock at all times. Be reguar in feeding. Change pastures
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lars and cents only, you had better kol out of the business. Good books, and
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choul at Taskagee he had a chick-en house for a class-room, as he
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 mous saving of time, labor and worry to



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 how many people confess themselves un-
acquainted with it. Not only townsfolk but many farmers, and not a few oi
those who profess to be interested in natural-history studies, are unable to not so strange that there are many misconceptions abroad as to its nature, and
the precautions to be taken against it. the precautions to be taken against it
This should not be so, as the plant is so plentiful in nearly every part of North America, and especially in the East, tha almost everyone must have had an op
portunity at one ulme or another, of portunity at one ume or another, on
meeting with it; and as the danger incurred by many people in coming in con-
tact with it is so great, its recognition should be a matter of importance to al
Poison ivy differs from the majority of poisonous plants in that it does not ro-
quire to be eaten in order to produce its ill elfocts. Mere contact with it is sumfthat they are affected even in its presence, though they do not touch it at aill
The possibility of ivy poisoning without The possibility of ivy poisoning witho
contact is not admitted though, by those who have studied the nature of the poi-
son to which its effects are due. This poison has been found to be a nonvolatile oil, to which the name toxile tends to show that it is a mistake to suppose the poisonous principle can be difiused through the air about the plants.
The poisonous substance is found in all parts of the plant, and a very little of it reaching the skin is suffcient to set up its painful irritation. Probably many
cases of poisoning which appear to be explainable only on the ground of transexplaisan through the air, might be ac-
mission
cunted for by the contact of shoes or counted for by the contact of shoss or
clothing with the weed, and thin with parts of the body which may not have touched it directly.
It is well known that not all persons are equalily susceptible to injury by poi-
son ivy. Some can handle the plant freely without any fear of unpleasant consequences. It would appear also, as
if animals were immune, as birds are re if animals were immune, as arrds are re
ported to feed upon the fruit, and cows porte ben known to eat it and show no
havil effects. Poison ivy growing along evil effects. Poison ivy growing along a fence, was kept almost completery eaten
down on the one side, where cattle were down on the one side, where cafle
being pastured. No effects sufficient to aetrg pastured. notice were suffered by any of attract notic.
Poison ivy grows most commionly along sides, or in open woods; or less frequently it occurs in deep woods where it may become a tall cilmber supporting itsel on the trunks of trees. In the open it
is low and bushy, or often climbing o trailing. The leaves are all composed of three ovate, coarsely-toothed leafiets, and serve well as a means of identifica-
tion. There are no other plants of similar habit in Canada with leaves which would easily be confused with them. The virginiaite creeper in oresty though hed it has ifve, not three, leaflets, which spread from one point like the fingers o the hand. The poison ivy can aiso be known when in arillary panicles of whitish berries of about the size of peas.
Measures of eradication must be directed towaid the uprooting of the plants, as otherwise an mave to be repeated and continued as long as the roots retain enough vital ity to send up new vegetation.
be advisable to mow off and remove the stems before starting to grub up th roots, so as to lessen the danger of
poisoning while at work. The tops may po got rid of also by spraying with a phuric acid in one gallon of water. As sulphuric acid is corrosive, it will be ad visable to apply with a sprinkling can
or an old sprayer which can be sacrificed or an old sprayer which can be sacrificed
to the purpose. Obviously, tor, any


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noed painting every year or two. The cost of paint, therefore. is
done away with all that troublo and nuisance and bother is grone. Simply lay your Amstite, noil it down, take away your ladder A ramplo of Amatite will be a hancoomo lit to boogkether giving
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Shorthorns of either sex. Prices right.

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sensitive to the poison. Every possibl
effort should be made to remove this ãuisance frouil plaćess frôquễted by chil dren and others
It will be desirable to add a word as to the treatment to be given in cases of
ivy poisoning. Washing with water alone will not remove the oil, though vigorously scrubbing the parts with soap
and water and a brush will help. The and water and a brush will help. The
most effective treatment is to scrub thoroughly and repeatedly with an alcoholic solution of lead acetate. This
brings the oil into combination with the brings the oil into combination with the by the alcohol. This remedy should be applied early. as the skin when once inflamed can only
natural course.

## Gossip.

sOME BIG. THICK SHORTHORNS. 'Tis seldom, indeed, that so much in mense thickness of flesh is seen in one herd of Shorthorns as is in evidence in
the berd of F. W. Ewing, of Elora, Ont., the herd of F. W. Ewing, of Elora, Ont.

- great, massive cows, with their tre mendous amount of flesh, evenily dis-
tributed. There tributed. There are no better-doing Shorthorns in this or any other country
Victoria Stamfords, Claret Cups, Wimplea, English Ladys and Marthas, repre sent their breeding on blood lipes, and
at their head is the strictly high-clase at their head is the strictly hitgh-clase
and remarkable breeding bull, Proud Monand remarkable breeding bull, Proud Mon-
arch, a Brawith-bred son of Imp. Blood Royal. There are few better bulls in the country than Proud Monarch, and no
better breeding bulls. An better breeding bulls. An exceptionally
choice som of his that is for sale is a red, nine months old, out of an imported Claret Cup dem. There is certainly future ahead of this youngster if he geta son is a roan yearling, out of an Eng lish Lady dam, by Imp. Scottish Beau got by the Rosewood-bred bull, Rose wood Chiof, and out of a Wimple dam by the thick, mellow bull, Queenston Archer. All of these young bulls are fo ones. A splendid show propsition nic white yearling, Martha, by Proud Monarch. Parties wanting something good in heifers or young bulls, shou d get in
touch with Mr. Ewing. His addrest R. R. No. 1, Elora, or long-distanco phone to farm. ,

SHORTHORNS, YORKSHIRES, AND
BERKSHIRES, AT MAPLELEAF That noted old herd Saplelear. has produced so much show stock that cessfully operated by Israel Grofl, we aga.a visited by a representative of thi paper and found as they have invariably
been found in the many years been acqueinted with the herd, in prime condition, and up to a high standard of modern type and excellence. The ma-
jority of the herd belonga old, thick-fleshed and excellent - milin tribe, Cruickshank Lady Fannys, better
than which there are none. Oiher tribe represented are the Minas, Kierry Maids Miss Ramsdens, Nonpareils, and Jea popular tribes, that have made the breed popular as a dual-purpose breed, not only
in Canada, but in the country in they originated. In females of thes great tribes, for sale, are a number of heifers froun ten months to three years
of aye, several of then got by the suc-
cessful breeding bull. Mina's Gloster cessful breeding bull, Mina's Gloster anlong which are a number of high mert,
deep in flesh, and smooth from end to end. In young buls, there are some
nice, level lads.
One is a white nice, level lads. one is a white, eleven
months old, by a son of Imp. Blood
Royal dam Royal, dam a Lancaster, got by Imp.
Sittyton Victor. Another, also white, is seven months old a Cruickshank Lady
Fanny, by Proud Monarch, dam by the 1) uchess of (iloster bull, Valley Farm
Argunet. ${ }^{\text {Another is a red, six months }}$. Argonet. Another is a red, six monthy
Old. a Mina, by Iroud Monarch, dann by
Imp. Proud (Gift. The present stock
 Shorthoin. The Yorkshires are headed
by Mallumpove Winner, whose sire was three times champion at Toronto, and
out of an imported dam. The brood
sows ane at Nuntiand . sate are young things of both sexes, out
sale
of litters of sixteen: also Berkshine

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