## PAGES

MISSING

## (D)

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THE SPICE OF LIFE The Child－Are you the traine． nother said was coming？
The Nurse－yes．dear；I＇m the trained The Nurse－Yes，dear；I＇m the trained
urse．
The Child－Let＇s see you do some of $\because$ Yes．＂remantred the race horse．＂all
$y$ achievenemens havo been due sumply to

 mock ward，＂－

 Thacher．：never can tell，＂，answered Tommy．


$$
\left\lvert\, \begin{aligned}
& \text { man No. } 1 \text { (enviously)- } \\
& \text { hear your yarn first " }
\end{aligned}\right.
$$

＂What do you mean by riding behind
my automobile？＂）demanded the angry ＂Exacuse me，boss，＂replied Dand Bumperse tipp．ing hiss crownepsed hat，＂but
der was a slight grease stain on me starry vest an＇I thought de fumes of de A hearty laugh had gone almos
around over the story of the fisherman A hearty laugh had gone almost
around over the story of the fisherman
Who，to locate the place on the
lake where he had had good luck，cut a lake where he had had place on the luck，cut
nick in the side of his boat． ＂at Almost around．＂for the Englishman
sat solemn and silent．About five min－
utes later，however，he awoke，with a utes later，however，he about five with a
roar of la ghter，and when asked the roar of la aghter，and when asked the
trouble，reppiied ：
i．Well，wouldn＇t it be a corking good
ioke if，that fishermen joke if that fisherman got a differ
boat the next time he went out ！＂ An Irishman was one day told to put
up a signtoard on which were the words：
＂To Motorists this hill is dangerous．＂ Away went Mike with the signboard
and placed it at the bottom of a very
steep hill．A few days later his em－ pleyer went to see how the board was
put up，and，finding it at the bottom of the hill，sought and found Mike．${ }^{\text {＂You bloming forl ！＂．he cried，＂Why }}$
didn＇t you putt that sign in the right didn＇t you put that sign in the right
place ？＂，
＂shure and ain＇t it？＂as＇ked Mike． ＂Don＇t all the ain＇t itt＂as＇ed Mike
bottom ？＂happen at the Two clerkymen ware once discussing the
process of sermon－writing whon one them remarked that the only really hard
propositions for him were the introduc－ tion and the $c$ in luston．
＂You remember．，he said，．．the ser
mon I preached at the installation
Rroll Brother Morley，not long，ago W，Well，
flattered myself that the exordium an the peroration of that sermon wer
preet ty well done．，＂
＂．Yes，＂re．pon led the other divine ＂Yes，＂reaponled the other divin they were nwfully far amart．＂

A POSFif．
A colornd woman was on trial before a
southern macistrate charged with in－ human treatment of her offspring．
Evidence was Evidence was clear that the woman
had severely beaten the youngster，aved some nevely years．Wh．．．Was in co
exhibit his battered condition． Before imposing sentence，his honor
asked the woman whet her she had any thing to say．
＇． Kin I ask yo honah a question ．．． inquired the prisoner．
The judge nodded aflirmatively．
＂．Well，then，yo honah，Id like ＂Well，then，yo＇honah，I＇d like
ask yo＇whether yo＇was ever the parc ask yo＇whether yo was ever the paren
of a puffectly withless cullud chile？

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# The Farmer's Fdvocate <br> Persevere and ngeceed <br> <br> and Home Nragazine 

 <br> <br> and Home Nragazine}

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EDITORIAL

FARMING AS AN EDUCATION An educated farmer is an educated man. That the farm has acquired a stock of knowledge and what is better, a degree of intellectual efficiency that lift him above the level of the common run of people, and mark him as a man with a de-
veloped or educated mind. Education does not consist in a knowledge of reading, writing, arith inctic, geography, history, and the like, howeve an elementary course of study. They are all good, and have their proper place, but it is worth re membering that there are men who, though possess:ng little of the knowledge commonly taught in schools, are yet educated men. They have acquired knowledge of another character in the world of agricultural, industrial or commercial activity, and, in acquiring it, have that that of minds to a greater degho had all the privileges of some fellow there are problems on every farm which will tax the ingenuity of the greatest intellects to solve to the best advantage. And yet they can be solved. It is a question of bringing thought and study to bear upon them, of reading, conversing, and listening to lectures on agricultural subjects; above all, of cogitation and earnest thought, followed by definite, purposeful action. The drainage of the fields, the tillage of the land, rotation oi crops, the maintenance of fertility of the soil, the harvesting and
of the crops, the breeding and feeding
stock, the general business and the science of farming, afford opportunities for the exercise of
the best intelligence. Every farm offers its own problems; and, in solving these, the way is open to a most practical and self-satisfying education. RAW GROUND PHOSPHATE ROCK AS STABLE ABSORBENT.
Leading American authorities have been strongy recommending the use of raw ground phosphate rock as an absorbent in stalles, about a pint to a cow twice a day being the quantity advised. ing the urine, the phosphate insures the retention and application to the soil of some nitrogen that would otherwise escape in volatire gaseous and in the second place, the phosphate itself con tains an import

There is a good deal of phosphorus in most of our soils, but the usual systems of stock husbandry and grain-raising, as practiccd on on many oldcultivated soils the proportion of this element existing in available form is more or less deficient,
resulting in considerably reduced yields of grain resulting in considerably reduced deficiency o phosphorus in the soil, and consequently in the feed produced on certain farms, is in a mich induces in cattle the habit of chewing bones, pieces of wood. etc. In some cascs of which we have personally been told, it is related that appliontions of phosphates to the soil have been followed by a cessation of such habit in the cattle. How ever this may be, we do know that many of our soils are benefited by applications plenty of bone fertilizer, and that on farms where plenty of more meal or ether phosused along with potassic ferti-
particularly when use particularly when used and of grain and clover have been increased.
dow. there are various forms in which phes-
Guelph, is slated for Dec. 7th No 11 th. The classification of stock in the prizelist fior this event has been considera for amateur and extended, several special classes vecturers has been engaged, the dairy and poultry ections give promise of being better than ever mefione, and everything points to a very successtul show. The reduced railway rates arranged for Hhrese events render the expense of attending modarate, and the favorable season of these shows, tragether with that for Eastorn lill fion and dawal, January 18th to 22nd, will afford a good orportunity for a pleasant and profitable outing for farmers and their families

THE LATE DR. FLETCHER
Canadian agriculture has lost one of its best mriends by the death, on Sunday, Nov. 8th, of Dr. Jammes Fletcher, Dominion Entomologist and Botanist, Central Experimental Farm, Ottawa. Fcomomic biologists of America, while, as a man, lous splendid personal qualities had made him a thost of friends. Enthusiastic, kindly and sympathettic, with an excellent memory for faces, he prosssessed the priceless faculy his audiences and sumbects, thus inparmation in terms rreaders a large sould not fail to understand. Which even chis work to Canadian agriculture, in The value of hinst plant and insect foes, cannot be restimated. By lectures, conversation, articles and boulletins, he systematized and disseminated a masa of helpful knowledge which has become woven his two the best agricultural theory and practice. which timety identification of the brown-tall moth, when was found in Nova Scotia a to that Prov mer, was, no dout, ofight the pest before it had ince in enabing thay: and this is but one insained greater headway, where his expert skill and lomowledge have served us to good purpose. The moonomic value of his work alone must be reckoned by the millions of dollars. One of his most ad mirable traits was his dignified simplicity. "Farmcers sometimes address me as the Entomother they Botanist," he used called me the bug-and-wed thousands of school will he be remembe Ottawa Normal wachers who, as student delight in trooping School, inspiration in nature-study, and useful hints as to injurious weeds and insects.
Dr. Fletcher was born at Ashe, near Wrotham, Kent Co., England, on March 28th, 1852 . He was educated at King's School, Rochester, Eng., and came to Canada in the service of In 1876 he Aritish North America Parliament Bulldings, became librarian at the Pariam acted as HonOtuawa, aninion Entomologist to the Department of Agriculture. In the latter year he was trangferred to the position at the Experimental Farm which he held until his death. He filled at different times the offices of president of the Ottawa Field Naturalists Club, president ond of the fion of Econonomic Fitomologists, and of the Ontario Entomolagical Soretary and hone allow of the ciety of Canciety in 1886, received the honorary Linnean So. D. from Queen's University in 1896 , degree of LL. D. from Queens Unival meetings of and attended as delegation for the Advancement of Science. He was also the author of many reScience. And papers relating to insect and plant life ports and
"strial has the disadvantage of being quite insolumble. and hince is but slowly rendered a a ailable the raw rock is merely spread land, little or no result may be seen for somute ime, but it is asserted that when this raw ground phosphate rock is mixed with manumen forme render available the phosphorus in the reoth Thus we see that, not only is it good for then manure to have the ground rock used as bate the sorbent, but it is also good for the phospher thawn lone. When not used in the gutter, it may
100 pounds to the ton. The use of raw ground rock phosphate ass and experts, and approved by such reliable Camadivan agricultural chemists as Prof. Harcourt. Ift is trongly endorsed by the editor of Hoardis we fied justified in urging Canadian farmers to give it a rial. We have taken the trouble to inquire winc and reputable firm, the W. A. Freemam oon of Hamilton. Ont., inforin us that they carry it im stock, and sell fine-ground rock phosplate at \$14 mg about 68 per cent. Of bene is reason to bediew that on many farms it would prove an excellect our readers will try it and report results.

## THE WINTER FAIRS.

The long list of autumn shows having hadd theoir day. the coming winter fairs now caters. fin mond farmers, feeders and breders. respects these winter shows are the most imbleresthrespects these they are essentially educative in desiom amod chour acter, er for the butcher's market, competime fion preference on the basis of suitability fion the ing compared both alive and in the dressedt-carcass form. While in the lecture-room, in addideesses luy expert breeders, feeders and purveyors, the monest arproved methoas discussed. The comstamentio-imceasing interest manifested by the evergrowing rowds attending these events froma year to yciar of the people and are being conducted onemsitb and sound lines. The International Live-stterd Show, at Chicago, while partaking mone largab of the spectacular, and less of the practucat its kind, and is well worth to the visitor what it costs to attend. There not only is seem oreoding show-yard condition, and representing manay breeds, but also finished fat stock of manyy warrities, in car-load lots, as well as indivicharal ries. The horse-show section of the December 10th, also adds greatly to its attractivemess, and makes it the crowing
The Maritime Provinces' Winter Fair, at Ana herst, Nova Scotia, the dates for whichic are Nor 30th to Dec. 3ra, and Gueph, has steadily improved lar lines to that at erest. and the prospect is that in character will eclipse all its predecenssors. The Ontario Provincial Live-stoclk. Daingy amed
the Farmer's Advocate
and Home Magazine
the le RICULTURAL
DOMINION.

john weld, Manager.
nememe for Tuit $\begin{gathered}\text { Farmart's Advocatr } \\ \text { Winempgo, Man. }\end{gathered}$
w. w. CHAPH London (Encuand) Ofric Loodoa, W. C., England.

- THE FARMER'S ADVocate and home magazine







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DUAL - PURPOSE ABERDEEN - ANGUS The desirability of the duat-purpose function
among the recognized beof breds gains increasin,
recognition. An American advocate of the Alser deen-Ansus urges Doddie breeders to develop t milking function in their cattle. In the comerses rise in values and subditision of dual-purpose as contrasted with a specimepuplase beomg the Ingu are already some good systematic effort on thinks that by syst and he thinks that by systematic ene quality
part of its breeders the dual-purpose the Black Polled cattle might in a few years and Roans. "Whenever-this is accomplished," says, "the demand for them will be increased
dozen iold."

## ARAB HORSES

Editor "The Farmer's Adrocate":
I wish for a little information as regards the
Arab horse. Is it noted for its speed, and what Arab horse. Is it noted for its speed, and what are its general characteristics?
The Arab horse is the Thoroughbred of the
The East, just as the English Thoroughbred is of the East, just as the English
West. Arabia was the original home of the breed, though now there are a number of strains developed in other countries, particularly Persia and Turkey. They are used to a very consideratid ent in Asia, as far east as India.
In color, the Arab is bay. Contrary to generopinion held in this country, probably over 85 per cent. of the breed are dark in color. No Arab horse is ever born white, but always bay, chestnut
or dark brown. There are, however, strains in
. Turkish Arabs, particularly, that are gray or white, but the true Arab is never light in color The best are bays, with black points.
In a beencral form of the body, there is a beautiful balance of power and symmetry; and, for racing, to which the breed is dedicated, the great ing, to which the it a long reach or stride. The
general length gives
head is not proportionately small, but beautifully head is not proportionately small, but beautifuly
formed, large and broad above the eye, and tapering from the eyes to the muz7le, with a depression
or hollow in the face. The nostrils are wide and long, capable of being greatly dilated. The neck is light, but strong and macefully from the poll to the withers. The withers are high and long, but tod thin. The back is short, the loins broad, wel coupled and powerfut. The quarters are powerful,
set up rather high.
being both long and deep ; the gaskin full, thighs being both long and deep; the gaskin full, thighs well let down, and hock clean and large. In front he is much the same, the shoulders ing and war,
developed. The arm is strong and muscular, knees large and square. The legs are well-boned,
the feet large and open at the heels. the feet large and open at the heels.
The Arab horses are noted more for their wonThe Arab horses are noted more the are for speed. They are used for racing in the East, but
events in which they compete are almost always restricted to their particular class or to ponies, for the Arab seldom excoeds 14 or 14.2 hands in
height. Given even liberal allowances, the Anab in racing stands no chance against foreign rivals It is used for polo, but high-class Fnglish polo ponies excel it in speed and cleverness. In India
they are used to some extent in hunting and steeplechasing, but, as a general rule, are not such clever iumners as ponies having a strong admixThe announcement is made, according towestern adival Breeding Rureau, which is in some way al liond to the Mritich War Ofice, has legun the in auguration of a lig scheme of horse-breeding in
Canada Canada. The plan of the Bureau is to place
Thoronghbred stallions at different points through Thoroughbred stallions at different points through-
out the Dominion. the nroduce of such sires to be available for the Rritich Armv remounts Col.
Mclaughlin, who has bren in Canala for the past. Mclaughlin. who has been in Canada ior the past
three vears. dwowe which time he has been studythree vears.
ing horseranchine conditions in Allerta, is inter-
ested in the onerations of the Burcau, as is also

## CARE OF WEANLINGS.

In important meriod in the development of the
horse is the tilst winter of his life. Under fail horse is the the horse grows more in his first yeal treatment, the herse in order to making the most of him. it is, therefore important that the coll
lin so fed and cared for that it is kept growing constantly. It is only by such care thle of being be grown to the fullest size it is the most critical brought to. The fillowed to lose its foalof its lite, as. "I the and, in order to making the best of it, the feeding and manage making the best such as to retain the good foundament shid by the mother's milk. The foal should be taught to eat oats and bran before being weaned. When cold weather comes, it should have a roomy box stall. and if two are kept to gether, they will be better for the company. The colt should have been used to being handed when a few days or weeks old. and quarters, the soonet lead before going wetter. It is a good plan to it is so trained, hen it continuously, with keep a comank, say; about six or eight inches long. a short from it, so that it may be easily caught hanging handled in its stall at any time, its legs handled, and its feet lifted, so that when they need attention, the colt will make no objection Standing on the soft bedding and the accumalated manure, the colt's feet are liable to grow long and should be occasionally shortened, anould be level by means of a rasp. turned out for exercise in days, when cattle and hour or two on stabled, as exercise is essential to older horsest of muscle and strong bones. There is no more suitable or better ferd for the colt ordinarily, than good clean clover hay, oats and
bran, with a carrot or two daily. If treated as abave indicated the first winter, it will look after itself in summer, and do well enough on good pasturage. If it is purposed to prepare it for show purposes, it may be nore of cow's milk and by means of a moderate supplation to the clover, oats and bran; but, with such feeding, ample exercise wil be all the more necessary, in or
in the best health and condition.

TEACHING COLTS TO FOLLOW RIG.

> mong the many devices contrived for teaching Colts ar horses to lead behind a rig, perhaps the simplest and one of the most effective is made by taking a long rope, or heary plow line, and exending it through the hater ring ber ber ber having a loop act as crupper The rope can be
doubled and one knot made about the middle of the back, and another further back, to form a crupper. By passing one end on each side of the heck through the haiter ring, it will remain in
place. When the colt pulls back, this rope (which hlace. When the colt pulls back, this rope of the wayon) tightens, and the rope device pulling under the tail brings him to his place. One or two pulls senerally cures any tendency to rush back.
The same treatment will cure a halter-puller in



## LIVE STOCK.

## diseases of sheep.

Perhaps fwod manuesmen


 than cure, conditions as to care an
sible, the cond
conducive to constant healthfulness conducive to constant healthtumess. In order ing the flock regularly, twice a year at least, for the destruction of lice and ticks, and to prevent
such skin disease as scab or scabies, which, if
contracted and neglected, may prove very troublecontracted and neglected, may prove very trouble-
some, and cause mach loss. The proprietary
sheep dips advertised are easily prepared and apsome, and cavertised are easily prepared and ap-
sheep dips adves according to directions, are al-
plied, and if used act most invariably effectual in the destruction of
ticks, lice and the parasites of satics. The
flock should the treated in the late full, before winter sets in, and again in the spring, immediateIy after shearing, when any ticks present on the
ewes will transfer themselves to the lambs, where
lat a more wool is found as a covert. The lambs, at
moast, should be dipped a few days atter the ewes are shorn, and it wio the same process, for the cleansing of the skin and the promotion of the
health of the flock. When treated in the late heatumn or winter, dipping may not be so easily practicable, owing to the length of the wool, es is more expensive, on account of the amount of the solution wasted. But, pouring the warm
solution from a coffee-pot may be done so as to solution from a coffee-pot may be done so
make the treatment quite effectual. By this meth make the treatment by can easily treat 50 to 60
od three men or boys of the of sheep in a day. (Ine man sets the shee on its rump, one divides the wool and
four or five inches, first on throat, breast and belly, then on sides, and finally along the back from head to tail, while the third powart to each into these openimgeans the skin is pretty thorough sheep, by whered.. If any indication of scab is found of course, extra attention should be given breaking up the scab, so bottom of the disorder soak into an case, a second treatment should be given at the end of two weeks to insu section given at the end parasitic affection.
struction of the
To guard against the danger from foot-rot, the hoofs of the sheep should be carefulty trimed
with a sharp knife at shearing-time, or earlier, as with a shar of the hoof is liable to become overgrown
the horn of from standing on the manure an so feet is apt during the winter, and disease of the of an infec-
to occur which may assume the iorm trouble. It tious class of foot rot, causing much troand small phial of powdered bluestone to apply after trimIf contagious foot-rot break out-which is very rare in this country-the diseased members of after flock should be isolated, anded, by standing them for a minute or two in a solution of bluestone in a tub or trough. A box of air-shaked tot to their where or feed, is also a good provision. laying its eggs in the nostrils of animals in sum-mey-time, which eggs find their way which in some and hatch out hef lact the health of the sheep, cases seriously and loss of flesh. It is not un causing on to find these grubs in thed. Usually they sheep that have been sith of the animal, and ar do not anderning, or find their way our Tarring tural process. Preventive meas ins season, placing the nostrils of the sheep in the fing the edges with salt in a trough and flock access to a darkenos shed during the hot weather, when the fiy showing troublesome. In the case of as giddiness. signs of grub in the head. such placing a piece holding the head crown of the head and striking is
plank on the rases lodged the grub. Some wringing spirits of the have disloage the nostrils. and others by head high pentine into tobacco juice. holding the heroic in the meantime. This had better not be adopted treatment, and prosort. in lamhs, have Stomach worms, usually found ios in inited caused considerable trounty, very little has been States flocks, but. fort in Canadian flocks. This ailment in heard of terms are described as very small, in color, being worms are of an inch long. reddish in Iambs affound in the folurth ate in the eyes, are dull, lose fected are thirsty. pale in the
weight. and may scour or eat dirt. Benzine recte
weig Snifles or nasal catarrh is not as serious as it ap, ears. Sudden changes in the weather, getting the chief causes. As a rule, no treatinent is necssary, but a successful Canadian flockmaster rec-
ommends the following prescription: One ounce ommends the following prescription (ground) two ounces gentian (ground). All to be simmered in $1 \frac{1}{\frac{1}{2}}$ quarts of water for 15 minutes, then
strained. Add 8 grains corrosive sublimate, dissolved in a small quantity of water. Mix all thoroughly. shake well before using, and give three
tablespoonfuls twice daily. A word in closing alrout drenching sheep. Noth-
ing should ever be noured into the nose if it is
desired that the medicine should go into the fourth stomach, the sheep should be allowed to stand


Prince Ideal $=71512=$ January, ${ }^{1908 .}$ Bred and owned by Sir George
Que. Sire Cicely's Pride (imp.). $=40369=$ dam Shorthorn bull calf; born January, Sire Cicely's Prid
Drummond, Beaconsfield, Que.
Queen Ideal $=64221=$

BREEDING SOWS.
If it is desired to have litters of pigs born about the irst of April, the soriod of gestation in athe sow is sixteen weeks. There may be some advantages in having the pigs come if it is desired to have the sows raise two cially if it is desired there is inore danger of loss of
litters a year, but ther the pigs from cold weather if born in the earnier month, and also more danger of of exercise, as it is essential to their health that they have access to roomy yards and to a taste of grass it may be Where a number of sows are in season near the end well to have such as come in season neax period of November server throw the litter as late as the middle of April, and there is always the chance that some of the sows may not conceive should not first ser before the age of eight months, though strong, well-developed ones may be a month or two younger. As sows penerally remain in thear served the second or third day of the period of cestrum, the second should be kept quiet and separate from
and they
ater other hogs for two or three days after crate, in which to economy of tace the sow during service, is a very handy and place the sow dice, which can be made in an hour
desirable dever with a saw and or two by anyone at alil hand common shipping hammer. It is practically a comme other end, crate. sow being kept in by means of a cross-bar
the sow above her hocks, while a false front is provided,
to slide down between cleats when a short sow is above her down between cleats when a short sow is
to slide dix inches high is
heing bred. A plattorm sid being bred. A platcerm she the behind the crate, if needed. for the boar
placed

In considering economical feeding of beef cattle, ou must make use of considerable rough foods
the farm, and less meal. as the latter is very of the farm, and less meal. as the latter is very
expensive, especially during recent years. By expensive, especially
adopting the following system, 1 have been able to reduce the quantity of meal to a minimum : We select stockers and feeders of the best quality, and of the beef breeds-those with a tendency
to put on flesh where the most costly cuts of beef are obtained-haing them in a thrifty, healthy and fleshy condition when winter sets in. This we accomplish by having our catce an fall, genertare during the previcres of rape for pasture near some rough grass, to which the cattle have accoss. If no rape is provided, a few sugar beets are
and seem to tone in the digestive organs as no other foods will at this period of Che venr. and in November. ve have a quantitv of corn, unhusked, in stack or in shock, by the side of the pasture. A stack or in shock, by the siven on the grass each dav. lecause the grass his lost much of its vitality by drouth or makes up for the deficiency, and also
keens up the animal keels up the animal in view the impor-
tance of having tance of having a
shelter for them by a shelter for them or or
thicent of trees, or
providu a shed to proprovide a shed to proBefore the cattle
have lost any flesh. have lost any tlesh,
we take them to the stable. 1 consider
that anv loss of flesh that anv loss of tiesh oiten the case with
beeinien. is a triple beeinien, is a triple
luss Firs, there is
lue time lost; seo-
ond, the derangement the time lost: see
ond the derangement
of the constitution, which naturally takees
place, and is difficult
to rocuperate : third. the cost of replacing
the cost
this flush. The borns
are of brick, and ceare of brick, and co-
ment-block bessement
ten feet in hoight; woll ten feet in hoight; well
lighted, well ventilatlighted, well ventiat-
ed, and kept comfort-
ably warm. In those stables the cattle are kept free from vermin. treated kindly, and fed regularly-fed loose in box stalls, or access to water in the stable at any time, and are let out while the littor is being removed from the stable, every day (excepting Sun-
day), and fresh bedding given, consisting of long, day), and fresh bedding given, consisting doe
cut staw, which absorbs the liquid and dor gather in heaps by the feet of the animals. To the beef-man, I would say, do not fight nature by tying your cattle. It is as important the have the beef aninual loose as it is boon hog that, is fed for market; and more so, as the steer has
ing journey of 8,500 miles, and' it is important a long journey of 3,500 miles, and it is importan
that the feesh be firmly on, as you can only do bat teeding loose. lou can find this out by ship-
by ping some cattle fed under those conditions,
you will readily seo that the loose-fed cattle stand the journey better than those that wero vied. food In feeding in stables, we strive to have food foods available, namely, good corn silage (about 30 pounds) mixed with cut straw, clover hay and Hungarian grass, mixed together from tweil being mixed with the above mivture to make it more digestible. A little lucerne or Hungarian grasa is fed at
evening.
By selecting stock, and feeding as above, $\frac{1}{}$ hy aload of cattle weighing an average of 1,260 pounds the first of December, last fall the 15 th of sold the first of April, to be 1,505 pounds. They April, and the to Toronto, and killed. to be sold to Toronto's wealthy people. The price realized wee $\$ 5.75$ per cwt... and the nurchaser received a good

## 

mere sold, the price paid for choice exporters at of Toronto appreciate high-class beef at a better price than export cattle. Those cattle only re
ceived an average of two pounds of meal daily ceived an average of two prounds In conclusion, by growing Hungarian grass an alfalfa, we can do without mill feeds, oil cake, an
also use less meal.
A. B. McDONALT. also use less meal
West Middlesex

## AMPLE DIGESTIVE APPARATUS

 A good deal of overdrawn argument is occa-sionally advanced to the effect that beef cattle cannot be economically raised and fed unless they be of the very low-set, compact, cubical bee type, and a a special-purpose beef type do not al ways prove the most profitable feeders. The big barrelled steer frequently makes the best gains,
and, while an excess of paunchiness means an extra and, while an excess of paunchiness means an extrn
proportion of cheap meat and offal, still the cattle feeder's interest demands a certain departure from the trim-bellied, lathe-like conformation which
constitutes the butcher's or the packer's ideal constitutes the butcher's or the packers ideal
An experienced feeder remarked to us one day that An exper liked to buy a steer that lacked a good middle. Other things being equal, the big-bar
relled steer made the best use of his feed. of relled steer made the best use of his feed. runts which are walking barnyard evidence of in-
sufficient nourishment on poor, bulky food, but of well-grown cattle that have been properly started out in life, and carried a
up to the finishing stage

SWEET.CLOVER HAY FOR LAMBS Wyoming Experiment Station seem lambs at the Wyoming Experiment Station seem to indicate that
while sweet clover is of somewhat loss value than alfalfa when fed with corn, still it makes a satis
factory feed. Comparing two lots of lambs, one factory feed. Comparing two lots of lambs, one
fed alfalfa and the other sweet-clover hay, the former made an average gain of 34.4 pounds in 14.weeks, and the latter 30.7 pounds. The sweet-
clover lot ate onesixth more hay, somowhat more clover lot ate one-sixth more hay, somowhat more
corn, and a small amount of oil meal. The larger consumption of sweet-clover hay was due to the fact that it had been cut late, and was very coarse and stemmy. Range lambs liked it fro
the start, and showed a steady appetite for it.

## THE FARM.

TOPPING WITH SHEEP, LOADING WITH FORKS Editor "The Farmer's Advocate

In two recent issues of The Farmer's Advocate, we have read two articles re the harvesting
of turnips. Here is the way we have been har vesting our turnip crop for some years past About Oct. $20 t h$ we put our lambs in the field, and by Not off, so that part we do as "Young Farmer "mentioned. We have a common iron harrow, with comparatively
short teeth, tie a plank across the harrow, and short teeth, tie a plank across the harrow, and
hitch on the horses, get the whip, going, and in a few minutes ten or twenty loads of turnips are the large roots-more so if the weather is dry at the time of harrowing. "Young Farmer "
not say how he loaded his roots, which is important part of the work. In most cases it is done with the hands, which is away behind the
times. We take a five or a six-loed grape (fork), times. We take a five or a six-toed grape (fork),
file the prongs quite sharp, and with the prongs we spear the turnips, often spraring three at a
time. This can be done without bending your hack. The turni|s leave the grape at once when
the handle of the grape strikes the wagon box. the handle of the grape strikes the wagon box.
This method is common in this part now. When first introduced, some of the older wen thought
the harrou teeth and grape prongs would spoil the harrou teeth and grape prongs would spoil poses. In this way, we can draw in as much in a style.

MANURIAL VALUE FROM VARIOUS FEEDS
Hoard's Dairyman publishes a table giving the reduced and conservative calculations. reduced and canservative calculations. It esti be worth 43 cents; corn st over, $\$ 1.03$; clover hay,
$\$ 1.96$ : timothr, $\$ 1.17$; pround corn ald col. $\$ 1.80$ : ground corn, $\$ 2.21$ : ground oats, $\$ 2.60$, wheat
gran $\$ 4.4$, cotton-seed meal, $\$ 8.36$ : linseed meal (new process). \$6.91 gluten feed, $\$ 3.43$; and gluten meal. $\$ 4.9 \mathrm{~A}$. All this. on the assumption that the liquid mamure is not permitted to go to waste.
or the manure left in piles to leach in the field

THE ENGLISH SPARROW
Almost anything in the line of birds adds to months, and one can almost forgive the sparrows. discordant quarrellings for sake of seeing something flying around.
The English sparrow may eat insects, scales and weed seeds, but just at present he is oitener found in the stealing business among the poultry in the scratching-shed, in the granary, and cven In the silo stealing the exposed corn, providing he small hole a sparrow can't find and go through In the summer whole flocks fly to the grain fields and take the top grains from the heads of standing wheat; again and again visiting the fields after the grain is cut, and piching from the shocks; and even after the grain is in the barn it is not saie from them, for they will eat the grain from all the exposed heads and look for more.
I'll leave the mathematician to tell just how many dollars the English sparrow costs the Province
saves
A flock of pigeons would add greater benuty to the landscape, to say nothing of their value in filling the pie, than does the English sparrow The pigeons would not destroy more grain, and would certainly eat a great many weed seeds. Could the sparrow be banished, would not the chickadee and other birds which are winter residents of our woods become frequent visitors in
our gardens and orchards? feathered friends which have wintered in the south, and the sparrow will do his utmost to drive the more useful birds from the territory which through the winter he has illegally pos sessed. Could he be evicted, would not a greater variety of birds, and greater numbers, find nesting places in the home ground, which at present are iarced to escape from his selfish quarrelsome ness. I have seen a pair of bluebirds driven ture students could tell of athers.
Sparrow hunts have been successiul in destroy ing large numbers, but owing to the great pro number just as large. Persistent shooting, if it does not kill, drives them away, but only for a
short distance and a short time. These methods, short distance and a short time. These methods
though useful, are too spasmodic and unorganized to lessen the number very much throughout the Province. Could not an organized scheme for
their destruction be planned? Not organized simply in one small locality, but wider and mor ship, and district to district.
The plan here suggested would begin in the schnol section, among the school children, and dur ing the summer months. It is a plan for the
destruction of the eggs of the Figglish sparrow Some would-he benefactor might offer first, second
and third prizes for the schools, say in each town siip, that could show the greatest number of eggs somected. Shildren might be tempted to
smmgele in the oggs of other birds, but the teacher
should should twach the scho'ars to distinguish the nest
and egg of the Finglish sparrow, and while one and egg of
spararow's ckg might count one point, the egge of
any other hird bromght in should count ten points of. Fnch dav the teacher would count the eggs, preferred, they might be blown and strung on
cords and used as wall decoration, until the final egg had been laid and brought in. To still fur
ther stimulate the hovs and girls in this work ther stimulate the hovs and girls in this work,
the trustecs might ofer a prize to the toy or girl
in each school whose total number was the highapprorriate would he some of the many nature
books on the market. These would help the pupils to know the brds and to love them. and
to dusire II: no one offered prizes. one school might com pete ngainst its nearest neiphbor, and a field day
be arranged. When the losers would treat the win
ners. Fevery plan has some objections. It seems
 stroy birds nests-ewn Fnylish sparrows nests
may not seem right to avery person. (limhing trees and harn rafters is good "uxer
cise ior the muscles. but some parents miaitht pry fer the Finglish sparrow to the tom chothes. $\dagger$
 Mindilesix

THE DAIRY
DUTY OF PATRONS IN WINTER
Those in close touch with the dairy industry quired to further improve the quality of chees. and butter is a supply of raw product in prime
Long experience and dairy - schoo training are two agencies that have resulted competent makers, at least in the leading dair districts. The work of dairy superintendent instructors, as they are variously called, do
much to ensure a uniformity of product and remedy defects. With this recognized efliciency
the manufacturing end, the patrons must rise the occasion, accept advice from instructors, ma ers and fellow patrons of the district, and
everything in their power to provide a supply everything in the from defects
milk or cream free During the winter months opportunities are a hand for acquiring the necessary information a reach the factorics, and how to deliver it in tha condition. Every friend of the dairy industry is anxious to know the proper methods connected Thith every operous meetings for the discussion of dairy problems which can be reached with the ex penditure of little time and money. If the ques tions are not discussed sufficiently those in charge
are always willing to answer questions or explain any point. it is found impossible to attend meet ings, the agricultural press meets the requirement in treating the question any event the readin of editorials and contributed articles is an im portant adjunct in the work of dairy education.
But those dairymen who are enthusiastic mus not be content to altend meetings and read. The regrettable feature as regards periect ng any branch cause of imperfictions aro slow to attend meet ings and do little or no reading. It is the duty of the progressive to approach their more or less them attend one or more meetings and subscribe for first-class agricultural journals. The most successful makers do what they can to remedy matters, Lut various difficulties arise which pre
vent them covering their districts. Occasionally patrons become antagonistic and refuse to listen to the solicitations of the maker. These men nav be approached by a prosperous neighbor more radily than by any other person. Such mission of the factory as a whole, by improving the quality of the product and ensuring higher prices. time for the local missionary campaign. Do what is possible to have a large attendanco at meetings and also to have every patron read and study
then note the result in higher returns from the

PROBLEMS OF THE DAIRY.
the cow and the stable.
in the dairy business, but in the winter months difficulties multiply, and are hardest to overcome The goodman of the house said to me. "Yo lways ready to cows yet." Now, usually, I am tle. This time I allowed the cold to le sufficient enios the cream and tutter, and " What the ey dorsn't see the heart doesn't grieve over.". II had
the intuition that if I saw the stable and cows m. relish for the cream and butter would sudI know it is hard to keep everything as one
would like, but certainly a greater effort should Many people have grown so used to to sad condi tions that these do not shock them as they should If some territle scourge would suddenly arise as it would prove a blessing. Then men would b
up and doing, instead of teing content to wall around and through the mire.
Sweep down the cobwebs: whitewash the ceilings, walls and mangers: have the floors tight and
dry on which the cows lie. Make such provision as to give the cows plenty of fresh air without
causing $n$ direct draft on them Reware of the dark stable it is sure to harlor dirt and disease firoom the cows just as recularly as you do you
horses. It helps to keen them clean and heaithy Nis matteep how pure and abundant the food and (ater supply mave he if the stable be dark, dirty cond holth The hoalth of the animal is of is certainly a most
fluid which eomes diseased animal and use
factory next season in higher returns from the
$\qquad$
$\qquad$
$\square$
due to thoughtlessnness. and goes to the barn, sits
stalue that has been tightl make conditions worse, souic
out the stakle and another outh hay. The streans oi
with foll fill
this foul with this foul air the pail, and

The udder and flanks showld wice wiped
damp cloth, and if soiled should be washed.
alitule vaseline is rubbed on the hands it
a litte vaseme is sectionable hatbit of wetting the
awny with te object. The vaseline also keepps the teats
hands.
chapping.
The first streams of milk contain bacteria of
The worst form. These should be milked into a small tin and given to the barn kitty, They art bad for the mid milk pail with only a small open
The covered mil ing is growing in favor, and tests of the milk
for bacterial content cstablish its merit in keopin out dust and dirt,
The immediate straining of the milk through several thicknesses of cliecse cloth is another assential the seems unnecessary to speak of the
care of the strainer cloth but when of it being washed in the dish water, and not even rinsed, we venture tepid water, then thoroughly
first well rinsed in tir scalded and hung in the open air
I ately $I$ asked one lady at the Pacific Coast, and another in Manitoba, ,oth living on farms, how many cows ansur, "Oh, I'm sure 1 don't
came the same answe know, I never go the
tendency of the times - the withdrawal of the tendency oit
women's inest from the barn end of the dairy women's interest mo not advocate that the women
business.
I should milk, but I do think they could help much
by by going occasionatyere. The ver fact of them
things are done there looking around and fecling a co-operative interest
would be a stimulus to the men to set up a higher
lom would be a stimulus to the kindy word of encour.
ideal of cleanliness. agoermanent improvement.
${ }^{\text {a }}$ We women have our share to do in improving the quality of the milk. We must be gravely can
corned if the nilk is of in flavor. We are tod cerned if the milk is of in fravor. .the case, wo
apt to be indifierent, and if that is apt to be indifierent, and of the men.
must not oxpect toa, much of

COOL - CURING ROOMS FOR CHEESE
Extended experimental work and practical experience in the dairy business confirm the value and importances of improved cu the heatod season cheese mav be held at a row and by T. G. Wright
ature.
As was stated recently Prosident of the Picton, Ont., Cheese Board, in a letter to the Times of that town, there dairyman no doubt in the minas or any tre the emperature nover rises hipher than 58 degrecs are superior to those cured in a room where the temperature ranges from 80 to 90 degrees. ing-room facilities there is, aysor to the train, boat
imperative need to hurry away the or warehouse of an exporter, cheese fresh from the presses. Mr. Wright backs up the contention y. quot ting the reports. of leading produce houses
n Manchester and Bristol, testify ing to the supe-
and n ar condition in which cool-cured chesese arrive in
ior condinary
freat 1 ritain over those cured in the orrate
 they are superior in nit rresving at the same time,
from the same district arine and are worth two shimes per

 ped, and the system would undoubctiont for the
stood a hetter show of being extended but stood a hetter show of be ny ext, who do not make
discouraging attitude of buyers
 Chese. The advance of abour paid the virst ssason cool-curing was in
pound pand augurated has been dimins. Mr. Wright points out
ishing point, tut even yet Julv and August sold
 there had been no coles with those of an adjacent
comparing Picton prices win
 are deserving of still more sulstantair determina
ment at the hands of the rude in the ern dintain thi tion to improve the quality and and were led to
reputation of their chese. he tred wo make the


 nd description ond ice chamber. at cherry refitted some thr

Curing-rown
2ixion
ft. Beginning with a tion the owner. W. S. Bakely, in the main, fol--1 winch studing , feet apart. is placed on the er's Branch in the Dominion Department of Agri2. whinh shi.s, und an alternate row midway, culture, and the results hate the cemperature down sequentl pached tiont iull with planing-mill shavhe studding is nailed Thnge-and-grome matched siding, and then two
 ongue-and-gronte lumber, then two thicknesses of paper. lined up with spruce, matched and dressed
The ceiling is constructed in the same way, and the whole interior given a coat of alabastine The flow is smoothly-finished cement concrete.
There is a heavy cold-storage door between the here is a heavy cold-storage door between the
lrying-room, into which the cheese are placed for drying-room, into which the cheese are placed for
24 hours aiter being taken from the presses, and The outside opening of the curing-room is $26 \times 30$ inches, and about four fect above tioor It has triple doors. the center one being hinged at top, to fall into place after each cheese passes out, to exclude the warm air. The three double
windows in south end are small- $16 \times 22$ inches windows in south end are small-16×22 inches
and just below the ceiling.
Between the curingroom and the ice box or chamber, are two openings at the floor und two near the ceiling, about
10x12 inches each, und regulated with slides, the lower pair admitting the cold air, which, as
grows warmer, rises and passes back through the upper openings into the ice box, to be cooled down again. Thny are locate
sides, and 12 feet apart.
$\qquad$ way as the curing-room, except that on then it is strapped and boarded, leaving a one-inch space for
the iree circulation of air. The site for the floor is filled in with carth and gravel to within six inches of the floor proper, and then from 4 to 6 Inches of cement grout, and on this are and filled nch scantlings on erige, two feet apart, and down. On this is laid one-inch matched flooring, with fall of one inch in ten feet to gutter on one side galvanized iron. A a-inch pipe, trapped outside gavancede air, is soldered in and extends through the wall to drain away the water from mealvizediron coating are laid $2 \times 4$-inch scantlings every two ceet towards the gutter. Upon these crosswise and flat are laid $2 \times 4$-inch scantlings, purpose of holding up the ice, permitt ng a circuation of air and allowing drainage. The corling the ne for like the curing-roor The only opening is a trandoor in the ceiling, through which the ice is lowered, being first hoisted from sleighs by rop where the hox dumps itself and the ice slides down an incline to the trapdoor in the center of cellacs, 500 or 600 , llocks heine required for a 2 no-ton make of cheasy coat of paint, and the galvanized iron at bottom was flushed up ahout ane ine inches with the sidc. The tox is being filled in sharp, frosty weather, so that the mass will to comnact walle. The floor and ceiling are on a level with those of the to
coom. The ice chamher should the from to
no


## GARDEN 鯩 ORCHARD

IMSECT LIFE DISCUSSED BY EXPERTS.
Bugs and their relatives, as found by those who have to do with growing crops, where annual convention of the Entomological Society of Ontario held at Ontario Agricultural College, Guelph, on November 5th and 6th. Though the attendance was not large, interest was keen. practical nature, and sound advice in fighting insect foes to arm and garden crops was given
The newly-appointed offcers are as follows :-
President, Dr. Jas. Fletcher, Ottawa ; 1st VicePresident, Dr. Jas. Fletcher, Ottawa; 18t Vice Prosident, Dr. Walker, Toronto Univorsity; Cary-Treasurer, J. E. Howitt, B.S.A.' Lurarian, Dr. Bethune, Guelph. Directors for Districts-A Gitson, Ottawa ; C. E. Grant, Orillia; R. R. Hamilton, Galt: C. W. Nash and J. B. W., and S. B. McCready, B.A., Guelph. Delegate
ociety of Canada-A. Gibson the bear by Messre. The roports on insects of the year by Messrs. Nash, Williams and Grant elicited discussion on those pests that have bect No deprodations by new arrivals were noticed, but some old-time enemies made their presence felt. The aphides on
turnips. cabbage and allied plants were among turnips. cabbage and alled plants wry autumn
those that did greatest damage. The dry
Many growers had those that did greatest damage. Many growers had
favored their reproduction. Many
Soapsuds was been known to try spraying. Soapsuds was spoken of as the only practical solution remedy
spray when cost was considered. The rerly in the spray when cost was anser a
advised, however, was a close watch early in the season and the destruction of colonies berore seri season spread. The codling moth, though not seri-
had
ous in the central and northern portions of the ithe cheese as compared with the curing-roon
orner corner with special vats and separators, is used in conhection with the whey-butter entcrprise. Taken all together, the factory is not and a credit to its

## WHEY SWEETER-CANS EASIER TO WASH.

At the last meeting of the Norwich Gore Cheose Factory patrons it was unanimously agreed you
that the milk should be pasteurized. Thus you can see my experience has not been a long one, satisfactory,
The whey, after being treated, is returnod in a fed As to the improvement made in the feeding quality, I'm not at present prepared ta say. But this much is true, the cans are returned in a case heretofore ; and although we are paying our maker five cents per cwt. of cheese for this extra treatment of the whey, I for one do not wish to
return to the old method. C. H. CARROLL. eturn to the old method.
Oxford Ca. Ont.

Province, had been injurious in other parts, par
ticularly in the Niagara Peninsula where about $75 \%$ of the fruit was said to be damaged in some orchards. The lesser apple worm, so called, had
been found in a few localities, but no serious dam age was reported. The apple maggot had done serious injury in Prince Edward County, and in
near-by districts along the north shore of Lake near-by districts along the north shore of Lake
Ontario. A curtain remedy pruscribed was having
hogs hogs or sheep in the orchard to eat the fallen
fruit The tiny pear and apple-blister mite, that causes had done nuch to lessen the production of fruit hy depriving the trees of the power to produce
plant food. A ready and effective remedy was plant food. A ready and effective remedy was sene emulsion in spring, when the buds begin to
burst. The scale insects had not spread much, burst. The scale insects had not spread much,
although San $J$ ose scale was reported for the first athough San drese scale was reported for the first
time froun Dresden. Many new treatments had been tried, but the trend of the discussion pointed o a unanimous verdict in favor of lime sulphur.
Oyster-shell scale was said to be combated in Onario County by the use of Gillet's lye. Mr. Casar, of the College, pro
ment if possible this fall.
ment if possible this fall.
Dealing with mallormations in fruits, insects Dealing with mal.ormations in fruits, insects
were mentioned as the chief cause; apples and pears frequently were distorted by wounds made mears inect or another. The plum curculio
was blamed for a large share. Ieaf bugs also did
wa was blamed for a la
In reporting insects and their work, Dr Bethune referred to the increased tendency of farmend sperimens. The Hessian fly had College, or in Norfolk, Rrant and Essex counties. The precautionary measure was delay of sowing fall wheat until after the middle of September. The one-
time dreaded pea weevil had been greatly reduced, time dreaded pea weevil had been greatly reduced,
and if fumigation with carbon bisulphide were practiced it could be exterminated. The potato-
blister beetle had caused anxiety in some northern sections. This could be controlled by using
arsenical poisons, tut the larve were beneficial in arsenical they destroy the eggs of the Colorado Wireworms and white grubs had demanded at-
When was recoumended. For the latter when found in lawns, the treatiment was a drenching with kerosene omulsion, followed hy liberal watering. Some with water every evening for a week.
 granary weevil, wh ch could be destroyed ty the upon to fight the Mediterrancan flour moth. Fumi gation by hydrocyanic acid gas killed the insects but. not the eggs.

In dealing with the topic. " The Interpretation of Nature," Dr. E. P. Felt, of Albany, N. Y., said
that the prover study of mankind was the study of man, the world and the fulness thereof. A
difficulty in studying entomology was found in the various forms in which an insect appears. It was necessary to be able to identify the common do-
structive pests in all stages: then followed recommendations, giving due consideration to crops at tacked, nature of season and other conditions. The address was made more interesting by the use of
lantern slides, showing the various stages of insects, and the work done by bark beetles, scale
insects, leaf beetles, tussock moths, codling moths, insects, leaf beetles, tussock moths, codling moths " The Farmer's Wood-lot" was the subject o an address by Rev. Dr. Fyles, ound in the origina covering of the land, was roforred to, and cana dians were urged to seize every opportunity
planting trees in waste places, as well as
as shade, ornamentation and fruit praduction.
Farmers.
fruit-growers and gardeners urged by Prof. W. Lochhead, Macdonald College P.2. to study insect life more diligently. Each one should be ablo to identify those pests that at nsects crops, the injuries done chief orders of insects, the characteristics of the chethods in con nsects, and the effect of coperation was what was
trolling insect life. Co-oper needed. If business men paid as little attention
ned to losses as the farmer doos, they would gologica rupt in a very few seasons. annual mectings an
Society was endeavoring by and separts to teach all to attend to the insect busi ness, but the most effective
through agricultural colleges.
Considerable attention was paid to the work Considerablo ate the United States in import being carried on insects to combat the gypsy inn
ing parasitic insect
brown-tailed moths. W. R. Thompson outline brown-tailed moths. W. R. Thompson one Dren
the nature of the work done. Dr. Bune ren the nature of the work a paper from it was pointed out that 57 speci
n. C . in which it lelonging to the Hymenoptera, Diptera and had a tera orders had been imported. plants and indi quainted themselves with Ultimate success seem promising

NEW FARMERS' PACKING COMPANY The Port Miliord Packing Company, with it
apital stock of $\$ 25,000$, held and paid up by Capital stock of $\$ 25,000$, held and paid up by
some 62 Prince Edward County, Ont. farmers, recently finished. in their splendidly-cquipped new
factory overlooking South Bay, an arm of Lake factory overlooking South Bay, an arm of Lake
Ontario, and a fine shipping point, a pack of some Ontario, and a fine shipping point, a pack of some
20,000 bushels of tomatoes. Prices per bushel to the growers ran as high as 27 cents, but de clined as supplies became heavier, through the unfortunate destruction by fire of another large fac-
tory in the vicinity. The shareholders of the new Farmers' Factory have the priority over non-stockholders in the supplying of tomatoes. Next year other products will be cannca, and equal to the concern is A. McKee, and the Manager, D. J.
Love. The stockholders elect five directors, and Love. The stockholders elect five directors, and
these in turn choose the officers to run the business. The company is independent of the Cana-
dinn Canners' Association. A large number of dian Canners' Association. A large number of hands were employed during the canning season,
wives and daughters from the adjacent farms earning excellent wages, in addition to the outside the purplosed, The produce of the factory is loaded On lake boats direct from the storehouse. The
officers of the coinpany were highly commended for the condition of things in the factory by the
Government inspectors, under Meat and Canned Covernment inspectors, under Meat and Canned

BIG CROP OF LARGE SQUASH.
In truck-gardening districts in particular, and
more or less generally throughout Canada. Stumash more or less generally throughout Canada, syuash
of different kinds form a comparatively important crop. In recent years many farmers have grown
squash for the milch cows, and claim satisfactory results . farm of Wade \& Son, of I ambiton Co


Prize Squash
Grown by C.
Wade, Lambton County, Ontario.
mammoth freld squash was produced. They were wrown on a dark, sandy soil, liberally treated with dion was practiced as manure. Thorough cultiva out injuring the vines. All weeds were kept down This fall the crop harvested averaged eight squash to a vine. All were of great size, and many could
be said to be enormous. A 280 -pounder won first be said to be enormous. A 280 -pounder won first
prize and a special at the West Lambton Fair.

## POULTRY.

THREE GOOD PLANTS FOR POULTRY-KEEPERS
Whilst spending a day at the Ukia Agricultura Institute, La Trappe, Que., in charge of Trappist Montreal, on the bank of the Lahe of Two MounLains, the large flock of fowl there, its location, and the simple and economic methods in vogue in me to investigate somewhat. In the midst of A-shaped colony brooder-houses,
noticed half an acre of (iiant lussian sunflower, noticed hali an acre of (iiant russan sunfower, where about $A$,
Aked how he liked the "Giant," "ith its only
one but large flower. the poultry manager of the one but large flower, the poultry manager of the
estallishment emphatically replied, "() h ! it is a collsend! Poultrymen could not dream of a more ill roumd useful plant, especially for chicken-growThese ...r. sown very late last spring. . their math, and the bulk of the flowers

1 was thon romvinced that the
 " But what importance do you at The longer the plant is, the more leaves
ears. and in the fall, when the stalk has pears, and in the fall, when the stalk has gro green food," was the answer. And he explained to me that carly in summel
the sunflower aiready provides shade for young er as the and keeps provonger. And good shadis too,", the gentleman added, .. as no grass and hardly any weeds will grow under the large leaves
of the sunflower. Therefore, chickens can run early in the morning, and even afler showers, and not be interfered with by dampness or dew; as the soil is clean, free from grass and weeds. In fac
shade oan be kept so dense that neither sun shade oan be kept so dense that neither sun int In the fall, when cooler davs come, the lower caves are gradually taken from the plant, run
through the strav or root cutter, dampened with skim milk or slop-water from the kitchen, powdered with bran, and served to chickens, hens, hucks, etc., which are all fond of the stuff; in leaves. As the days grow cooler in the fall, and the ack's appetite larger, more and more leaves are
abducted from the stalks, and so the sun's rays reely enter the plot, and reach the soil exactly hants all the decreasing that is, when the fowl By the end of october, stalks and flowers
andy are left, but some seed has already beon fod only are left, but some seed has already been fed
to moulting birds, and more is served when the weather becomes cold and damp. The remainder is stored and ied on very cold
winter days, as the seed is oily, and therefore In short, this plant furnishes: (1) In the summer, shade, and also protection from dew in
the runs; (2) in the fall it lets the sun shine on the runs; (2) in the fall it lets the sun shine on the flock, and supplies it, also, with good and
abundant green food; (3) during moulting-time. and during winter, it provides heating food in the
form of rich, oleaginous seed ; (4) if the soil is orm of rich, oleaginous seed; - (4) if the soil is
naturally damp and low, the strong stalks and large bulk of leaves of the plant will likely dry
the soil and the atmosibhere in the premises to an the soil and the atmosphere in the premises to an appreciable extent of the plot 1 mentioned, the sunllower had been grown for three consecutive years, and seemed to be nearly as good and productive as the first year. It is true the stalks in the house boiler, and the ashes returued to the :and in the spring, with a few other cinders and an addition of lime. The foultry manager claums that
the droppings of the liirds, left on the "oil Juring the droppings of the lirrds, left on the "oil Juring
summer, contain a sufficient amount of phosphates to keep the land fairly supplied with that ferti-
lizer, although the sunflower is an whausting plant. II-RAPE.
I also noticed a fine flock of Pekin and Aylesday, marching in gile up and down the thes in the the river below, to a plot of rave ibove, und from the rape to the river again. They must have perthemselves journcy ten times that day, filling river for a bath and exurcise and roturning to the says my my poultry friend are extra fond of rape," will leave anything for it, and you can fatten they on it nearly as well as you can fatten sheep. Put little mash, very little animal food, and you will have them fairly fat when you close them up ior This rape here was not sown for them, but as a catch-crop around the aniary, after the buck wheat
had been harvested. It is nearly five acres from had been harvested. It is nearly five acres from
the duck's yard, but as soou as they had once tasted the rare, 1 could not keep them from it, despite the hill and aiso the good food I may give III-JERUSALEM ARTICHOKES
In the yards of the older hens one student was
digging Jerusalem articholes, which I supposeg
wrre allowed to grow there for shade, but I foun Oit : nnother object as I took sha hoe but I foun
dug one of the three-feet square and or "Muincunces. as th. Fquare bunches of stalks. wathered from it exactly one bushel of tubers whuse size varien from that of a hen's egg to a Fnclish "Rए Th" student in only fairly good hi. economianmed to me the ineding value and
$\qquad$ (Limter standing

scientitic mamers of th
worts? ..II get thes.
paper. was thre reply.
.. The conllege tahes
four "ons of the sthudents
"armer's Adrocalte,' a
dav evening at the meeting of the icinating
student was politely
"en "o" n Not only the
ight tenmictal wornd reat

## Fruit, Flowers, Vegetables, and Honey.

to discussion and and danhec oi late gave rise dian Bankers' Association in 'Toronto last week The city police do good work, hut constables in follow up cases of safe-blowing. This is another fact pointing to the advantage of Provincial forces of rural police.

The ammall foregathering of fruit-growers, and read by S. Short, gave the resuits of the revised vegetable growers, florists and in Toromto last week in connection with the On tario Horticultural Exh
the St- Lawrenoe Arena. ly on the erening of Thanksgiving Day, with a senting the various horticultural interests concerned in the show, were held at various points in the city. All these events have been covered by the regular editorial staff of "The Farmer's Ad vocate." and concentrated extract of the infor mation elicitted, well as a concise review of the
proceedings will appear in this and subsequen proceed

## HORTICULTURAL CONVENTION

The third annual convention of the Ontario Toromto, lust week, gave a great impetus to th homess in cities and towns, and rural parts of the Province, will be made more beautiful, and the Provime more attractive for all classes. order to malie the desirable improvements
sible, legislation has been suggested to contro the bill-board nuisance and the erection of adver tising monstrosities; to require that no dogs shall rum at larre in town or city, and that telegraph and telershone poles be placed underground.
Another teature of the convention was the faith expressed in the ability of the press to help in the gooot work of home beautification, by
facts and metthods of procedure public

The President of the Provincial Association, in orening the ronvention, dwelt on the important
edurational emefit to the common people, and pointed ount that national happiness depended on several small satisfactions. The efforts of the aral horticuitural societies comprimg friendly rivalry locally. and to co-mperation on the whole. The chief aim was the develo wment of homemahing and the
oroduction of homes that would put an end to boys and spirls imagining they could find more congenial surroundings elsewhere. L. Lockic Wilson, The renort of the secretary, J. Lockic Wilson,
showed timat the societies were making substantial cains. Returns from over 40 societies indicated
that only 9 had decreases, and these were only
 from to 1,010 , and st. Catharines, from 426 The ureasurer, H. B. Cowan, rellorted a balance On hamed of $\$ 152,30$, as against $\$ \times 6.10$ a vakers to
This dind not include the expenses of speakers to he comtention. To an oversight in the Iepartment aftuributed non-receipt of the customary grant of $\$ 100$.
The officers elected for the ensuing year urg President. Ma or H. J. Snelgrove, of Cowa 2ng 1st Vice-President, R. B. Whytere Comeron, of Toronto culture Tomnto: Treasurer, 11. 13. Cowan, o Peterfthoro Monorary Firector Hutt, of O. A. C.
 H. Soott, of Perth: W. Jetlers
Hselleville ; Miss M. E. Blacklock, of Toronto: A Alexamder, of Hamilton: Jas. Mitchell, of Goder ich: Geo. W. Tebbs, of Hespeler ;
of $L$ London. Figures showing the membershing and ture of societies, givencrits of the amcndments to the act in reference to Horticultural hocieties. Fortv-thnee societies had an increased mer cent. It
of 2012 , or an advance of forty-five per cent of 2,012 , or an advance bepartment of Agriculture
was sumsested that the ive
give furcther assistance to horticulural work by
88,000 to increasin enthusiasm in the Capital City, aiter the revised
Act gave an opportunity to augment the funds by
working hard for larger membership. Business working hard for larger membership. Business to be treated in a business way, and not as
though horticultural work were a fad. A live and brisinesslike executive was a necessity. All progressive citizens had the interest of the city or
town at heart. and would join if they knew the town at heart, and would join if they knew the
situation. For this reason the newspapers must. be won, and their support insured. Every up-todate paper or journal aided such lanidable work,
and qave snace freely. With such a system of directing efforts, ottawa's membership jumped In the discrission following. J. P. Jaffray, of

Sunflowers Grown for the Poultry
ould enlist the children of the district as helpers in the interests of horticulture. In his town, seeds and the planting of school gardens. The calue of comn counchared with that of a permannent parks board. Secretary Wilson dealt severe ly with the scanty space and little attention paid to the great horticultural show and conventions
by Toronto papers. Comparatively unimportant by Toronto papers. Comparativety unimportant these great meetings had to be passed by with a few inches, or at most a column. Representatives irom Goderich, Guelph. St. Catharines, and othcr points, assured the dies was anxious to secure copy dealing with the work of horticultural societics. There was not a local paper in the Province that
ar perpared hy-l f. Watson, of oftalla

"Scientific Plant-breeding," by H. H. Groff, of Simcoe, proved to be an interesting topic. Obseruccess, while a well-directed imagination had nuch to do with obtaining the end sought. In ny event, it meant hard and persevering effort. The effects of light, heat, soil, moisture and food supply, as well as the individual characteristics of
the plant, had to be considered. Mr. Groff characterized this as the age of hybrids. where man is leveloning new and valuable varieties by the use of well-krown plants from wild and cultivated
areas. The instability of form recognized in all areas. The instability of torm recognized in all
ife was made use of by the breeder to produce life was made use of by the breeder to phacters
something bettrer than hat been grown. Charat
were transferred, but chances of obtaining dupliretes were slight. but chances of obtaining dupli-
when the desirable type was desirable type was
secured, it could be
reproduced by cutrenroduced by cut-
tings, or grafts. To ings, or grafts. To how the change of
demand. Mr. Groff stated that, while
 ceds." the higher shades of that color
ware now sought rter, and he had refused $\$ 10$ for a incle corymb of a us.
As a new depar-
are. Mr. Groff had levoted some time with the object of getting an ear aver aging 5 to 7 inchee canners can put up table use at any
season. Already he sead satisfactory re-
had sa
suits, and hoped to suits, and the necessary. In all his
work his objoct had work his objoct had
been to supply the been to
largest
quantity
possible
high quality at the lo
est possible cost. A chart for the ordinary town or city lot, or a resi dence on any prop erty where a similar
area is given to house and surround-
ings, was presented by Roderick Cameron, Assistant of Toronto. Desirable arrangements of
house, walks, drives, trees, flowers, etc., were, given, with the
d straight lines.
oid straight lines. meal, furnished the necessary food. Many find it at 37c. each. These were home-grown frui
wise to put an inch of the manure ncar the bot fore the imported stock had arrived.
$\qquad$ foumch that som on way in gave 150 pound
tom of the box, as reserve food late in he ser
son. In planting, arrange for coior eliect and height, with tall growers at the back. In water ing, it was well to apply such quantities as would
reach the bottom and begin to run through the Earthenware hanging baskets always should have saucer bottoin. Wire hanging-baskets were easily constructed from common wire netting and
moss, by banking the latter around the inside of moss, by banking the latter around the inside of
the basket, with the green toward the wire, and filling in with rich
Rustic stands were of various forms. Iron o wood or wire could be used to advantage. In
many cases, tree-stumps or posts could he turned many cases, tree-stumps or posts could he turne
into lovely nustic stands at very little expense. The main guide to plants used was their power be grown. Some throve in shady places, would be grown. Some throve in shady places, but
would not stand hot sun. On suny or slightly
shady positions the shady positions, the plants included cauna, salvia geranium, nasturtium, coleus, irisene, verbena and agaves, century plant, aloes, and other succulent agaves, century plant, aloes, and other succulent
plaints. For shaded position, palms, dracenas,
fuchsia. begonias ficus alasticn, uchsia, begonias, ficus alastica. asparagus,
plumosus, crotons, sweet peas, climbing nastur tium, lobelia, masturtium, German ivy, tradesantia, and
was pointed out by R. B. Why te, of Ottawa hat window boxes had much to do with making it had been his pleasure to visit. The buildings on every street were de
and third story windows.
keeping bulbs and tuberous plants The best methods of keeping summer-flowering which J. McP. Ross, of Toronto, gave an interest ing talk. The grower must know the nature of his plants, and the climatic and soil conditions
inder which nature produced them. The main under which nature produced them. The main
point was to dig up bulbs and tuberous plants
when the tous were doad point was to dig up dead, and store in a cool,
when the tops were deal
dry cellar. In furnace-heated cellars there was a danger of overdrying. For this reason, it was es of heat or cold, moisture or dryness. Lilies and all plants of this family, placed in the ground over winter, should be in well-made and
high beds, to give perfect drainage. Also, ther high beald be a libelal much for protection. ther In an interesting discussion following, many questions regarding bulb-planting were brought up. In answer to a question regarding the ad
visability of holding bulbs over a season befor planting, H. H. Groff, of Simcoe, stated that he planted all the first season. 1R. B. Whyte, of ot tawa, cited an instance of where his bulbs, held
TUB PLANTS

Half-hardy tub plants for ornamentation of
grounds in summer, and the method of protecting during the winter season, were dealt with during the winter season, were dealt with by
Roderick Cameron. Tubs were not so satisfactory as caskets made of common chicken netting. Thes
could be lined with moss, and filled with could be lined with moss, and filled with good
soil. In spring, hasket and all could be planted and the plants would thrive better than with endless watering during the summer.
In winter they could sum In winter they could be taken up, basket and all, and stored in a deep cellar in which was
placed about three feet of soil. Before the plant were planted in their winter home, this should be saturated with water, and no more added unti they were taken outside in spring. It was pos
sible that the plants would freeze, but under such circumstances they should he in total darhness. such were the case until the frost left, there was

ENGLISH GARDENS AND PAlRES An eight-weeks pleasure trip through lingland
last summer gave R. $\mathbf{B}$. Whyte, of Ottawa. an in teresting topic for Canadians. In talking o all walks, gardens and parks had a linished ap Wild flowers were conspicuous, but no
of great variety. One of London's most tant horticultural features was the number of
parks of huge size, as well as the smallur ones parks of huge size, as well as the smallur onc scription of Temple Gardens, and the great annua sprine horticultural show held ther. The taste of exhibitors differed greatly from those of ex-
hibitors in Toronto. Plants in greal variety and hibitors in Toronto. Plants in greal variety and
rare beauty were in evidence in all tcpartments. Strawberries were a revelation. The average size was equal to a fair-sized Fameuse apple, and
had quality as commendable as its size Nothing he had tasted in Canada was equal to the English strawberries. Prices range from 3s. 2d. down to
1s. or thereabouts in a day at different points Goosoberries, in size and variety, were an impo tant part of the fruit crop. Th Kent eount


 as well as ideal grounds and surroundings.
the United States a regular Civic Improvement Association had been at active work for several years. There were 22 members in diferent part
From organization during recent years in
tario, steady, and even rapid, progress had been noticed. Cement walks and steps, removal of
fences, nicely-kept lawns and liouer-leds syste ences, nicely-kept lawns and flower-beds, syste
matic planting of trees, and various other features, were clear evidences of good work done. Continuity of action through parks board
council committee was urged, in order that labor on streets and avenues should be done
$\qquad$ the proper place. Where towns and cities had
acted systematically, specially-noticoable results Among the means of furthering the good work, of the press urged to organize, to make good use operation of ther suitable lands, to estahlish a local nursery for
supplying the requirements of the citizens, and to urge every citizen to do his share.
The development of a perennial The development of a perennial border during
the past ten years, was the subiect on which $w$ T. Macoun, Horticulturist, Central Experimental Farm, Ottawa, yave a valuable talk. Precaul ionary advice for beginners formed the majo bloom throughout the season, large clumps had to be avoided. Bulbous plants were necessary for early spring display, but if these were spread too
widely in a single place, a gap would appear later videly in a single place, a gap would appear later
in the season. Simall clumns, and more of them. was the better plan. In this way, other plants was the better plan. In this way, other plants
coming on later, planted near, would fill in the Rap. Recommendations for planting for effect through out the summer, included Tceland poppy, peach-
leaved campanula, dwarf larksrur, and white Rocket, in addition to the p.rennials commonly were desirable particularly for mass effect. Inwere desirable particularly for mass effect. In-
terested persons were advised to secure a copv of a
descriptive bullotin descriptive bulletin on herbaceous perennial plants, prenared by the speaker, and almost ready for dis
tribution. In it, over $2,0 n 0$ snecies and vari eties were mentioned. and descrintive notes giver In arcordance with a letter from I. Horace Mc of Marrishorg. Pa., in which he suggested that the Ontario Hotcicultural Association ioin with he American Civic Improvement, a motion it arong
filiation hrough a unanimous approval. It was
also decided to send Prof. Hutt and J. L.ockie also decided to send Prof. Wutt and I. Lockie
Wilson to the ann:al convention in Pittsbury dur-

## VEGETABLE-GROWERS' CONVENTION.

## rowers' Association "was full of conthusiasin and

 growers' Association was full of enthusiasin andinterest. Delegates from the arious branch arganizations and other progressive growers frcm different parts of the Province, chowed their ap-
preciation of the work of the Executive and those who took part in the con ...col and toise of fertilizers in obtaining hicher vill:ls, and the fighting of insect and fungous pests, wroved to
furnigh interesting material for thought and disThe President, I, H. Iewis, of Hamilton, in pointing out that the olifect of the Assoriation,
as well as this convention. was education, sug-
grated that suecial attention be theroted to formgested that slecial attention be deroted to form-
ine new liranch acsociations. $A$ isit on the fintario Agricultural College anst anann ramalyl the interests of vegetable arowros was very much suFor manv stanle aertallo crovs, howecer, it was Southerly district A rooll ctart had been made FARI.Y SFEDING: ONIONS The work contemplated for 1909 was dealt with for on ons had been conducted. In man. sectiong pround conld he fitted. Others argued that. W
Nllaving the seeding. a crop of weols comid he killod. and a more rantw......m.t on insured, the
$\qquad$
on geatly superior
The intention was to continue the onionperiments, and als, to launch out with cthvegetables. It had i.cen arranged to test homecrown cauliflower secd, and compare the retuin.
irom those of imported seed, but it was found im.possible to secure the seed.
port, dealt happily with the history of vegetablgrowing from the long-gone ages to the present,and urged all market growers to procure onlywork. Legislation regarding the non-warrantyclause found on seed packages and in cataloguesand penalizing seed vendors who disposed of seedand penalizing seed vendors who disposed of sied
going below 60 per cent. vitality were a necessitytesting seen of vegetable crops.The Provincial Association now comprised ninebranch organizations, and a total of about 40,members. A prize offered for best secretary'swon by F F F Reves of Humber Rayplaints as to worthless or inferior garden seedsbeing on the market, led to a suggestion fromthe growers that the Ontario Agricultural Collegethe time of seeding. in order to protect growers
The matter had been taken up with the Collegeromine ensuing discussers that it was as necessary to have legisiation dealing with caulifloweror other vegetable seeds as it was to compel mer-conditions, the speds were low in vitality, andalso not true to name.firms to get high-crade send, they should at least
le compelled to state on the packare what perle compelled to state on the packace what per
cent. would germinate so that the grower wouldknow what he was sowing, and not lose his crop
ONION-GROWING IN LNITED STATESA trip through the United States during thefurnished A. McMeans, of the O A Gucluhwith interesting details regarding the onion grow-Union indery. Several States of the Americanly to this crop, and obtaining an acres annualbetwean 300 and 400 buchelc to the ecre vielTourteen States, the total yield from 17,818 acresbushels to the brshels, or an average of 312As to practices in growing. there was littledifference, in some regards. from the commonin rows in such manner as to have tops cover theSils, and not leit more than four or five daysolor was the main feature desired, size beingMichigan srower had muck soil very successfuldeep, and thoroughly muck soil two to four feetton-dressed with manure. His yield Thequentlywent 700 bushels to the acre. Aield irequently
used for tophing. The cost of weeding ras rangedfrom $\$ 7$ to $\$ 18$ an acre louending on rangedfrom vear to vear. and to use onlv well-rottedmanure or hich-crade fertilizer. Seed was raisedAnother Michumau erower used a four row seedand ant seed in dril's 133 inches anart. at thiFor 110 acres tontallent the arre, Tis total cosWht theing hetween 400 and rion husherls acre, thtons to the acro included the applidranv had to so per the acte for wheel-hoeingmore than a dollarently had an expenditure of
 ..... 5
Sul (rat)ss the horde

$\qquad$
from Nave gave 112 pounds marketall, orabion

of cultivation that would destroy the pest that was common. The use of fertilizers gave the plants a start, and equipped ehich may also act as
tacks. A new fungicide, when an insecticide, had been recommended. It consisted of resin 2 pounds, sal-soda crystals pound, and waclear brown color. Then, for salsi fy, asparagus, spinach and onions, 40 gallons of isordeaux mixture should be added, and for other plants, 80 gallons. Aphides har
some on many crops, but a parasite had been found attaching this pest, and promised to exterminate it. MEMBERSHIP FEE REDUCED-OFFICAL ORA resolution. proposed by Thos. Nelworth, sug-
gested that it would be in the interests of the gested that it change the constitution, making the membership fee 50 cents, instead of $\$ 1.00$, and that the sum or to the Provincial organization. it was also stipulated that that part of the constitution referring to an official indiidual as to leaving it optional with whether or not he subcribed for a paper, but adwher ore mers to read suitable agricultural papers. Both clauses were carried unanimout
 sults. A resolut the tests be carried on again in 1909. to take in more species. and experimentcarlier in the season. in order to give experiment carried.

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table garden, and the facts that there were no
suit best for seed promit,on, and that it was
grower to go to the wom,onvestigating the
problem, brought resolutions requesting Govern
asked to see what can be done : this regard at
Ontario Agricultural College and at Jordan Har-
bor. The Dominion (iovernment, uis., will be re-
anada. FRUIT -GROWERS' CONVENTION
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The 49th annual meeting of the Fruit-growers'
Issociation of Ontario was held in the British
Nelcome League Hall, Toronto, November 10th t
11 th. A meaty twooday programme had been ar
ranged, and the President. A. W. Peart, of Bur
lington, descrves special commendation for the
punctuality and discretion with which it was car
${ }^{\text {ried }}$ In his presidential address. Mr Peart congratu-
lated the assoc ation upon an increase of over 200
in the membership during the year. During the
past two or three years, he said, there had been
regard to the ravages of the codling moth. At a
meeting of the Executive last spring it was felt
that something ought to be done in this direction.
sued, embodying the methods and practices of
sued, embodying the methods and practices of
three of the best sprayers in the province, and
the result of following out the suggestions thus
broadcasted was a growing hope that the moth
might be controller. In the Burlington district
might be controver. were the worst he had ever
seen, especially among Baldw ns, in some orchards
of which the ground was literally covered with
of which the ground
wormy apples.
Last year the Provincial Department of Agri- culture had instituted a series of fruit institutes consisting of one-, two- and three-day meetings,
held in various parts of the Province. The programmes has been well arranged, embracing a logical development of the subjects very successful and
ing, and the institutes proved ver atisfactory
The finances of the association were in good condition, there being a large balance on hand, which was well, seeing that the association exogical Soriety. Reference was made to the exhibits of fruit that had been made at such large exhitish, and ToWinnineg Industria, he effect of which must be to dvertise Canadian fruit-producing capabilities to good advantage. In some respects the season's record of the part of the season the rainfall had bcen heavy, but in August a prolonged drouth set in, so that
while the fruit attained a very fair size up to the while the fruit attained a very from that time on
middle or the end of August, from
its prowth was not up to the mark, resulting in is growth was not up to the mark, resulting in considerable undersized frut, esper
for orchards.

A GRAY FUNGUS ON APPLES. An apparent Greening apples. It was a grayish noticed on the areenserved adjacent to the stem,
fungus, and was obser whereas the spot fungus is usually most in evidence at the blossom end. Some of the anfected
fruit had been shipped in boxes and barrels, but fruit had bech seveloped so badly as almost to wipe
the fungus del
He understood out any profit from the sales. He understood that an American authority had classed from the ish fungus as a secondary devit appeared to be new visitor. PRICES AND CROPS

The apple crop, upon the whole, had been light especially of winter apples. Pears, plums and peaches had been average to goad. Grapes aggre gad a large yich, although Small fruits were fair Prices for fruit did not rule high, but, on the whole, considering crop and pricns, fruit-grower have done fairly welt.
Since 1891 the fruit-growing industry of Ontario has made steady growth. From 1891 to from 1901 to 1908 the acreage had increased at the rate of 2 per cent. per annum. We have untold possibilities in the way of soiry As regards knowledge, we are still groping along, the industry being in an experimental stage, and it is not web to dogmatize conclusions. Many practical problems are still engaging our altention on integrity, intelligence and industry. Upon these three fac tors, moral, mental and physical,
success of fruit-growing.
Under the order, " Report of Standing Dom-
down on the programme to report for the com- was something like the Crawford, but did not apmittee on new fruits. A letter from Mr. Macoun
explained that the death of Dr. Jas. Fletcher had moved by writer's attendance. resolution, by E. D. Smith, Winona, was passed at this stage, expressing the high appreciation in which the de pathy to his family and co-workers on the Central
Experimental Farm staff. Mr. Macoun's report was then read by Harold Jones, of Maitland. A tario Fruit-growers' Association, circular had been prepared and sent to a large number o papers in Canada, setting forth that during the past three hundred years many varieties of fruit
have originated in Canada, some being of great merit. A large number have been recorded, but up to the present no complete list of Canadian Iruits had been published. It leing desirable to
prepare as complete a list as possible beiore the prepare as complete a list as possible beore the Central Experimental Farm requested assistanco by all interested parties, by sending particulars as
to new fruits which should be recorded. In re sponse to the request quite a number of fruits had been sent in, a few of which were quite promising Among thent we note a handsome seedling apple
of good quality and Fameuse type-scason evidently through January-very promising if proving to be a better keeper than McIntosh; seedling from
A. E. Bellman, Bowmanville, Ont. Also one from large-fruited seedling, thourht to a promising Duchess, but larger, and said to seldom have an off year in bearing; flesh and flavor somewhat like
Gravensteim. Scions obtained from Thos C Gravenstein. Scions obtained from Thos. C.
Robson, Allsaw, Ont. (now of Alberta). Golden Crown was a large, roundish, pleasant-flavared, sub-acid winter apple, said to be a seedling of a arge imported apple, seed pianted atout 1880 Tree hardy, growing on a hill exposed to north-
west, said to be better bearer than Yellow Trans
parent, resembles Grime's Golden parent; resembles Grime's Golden. Henry White is the name of a promising apple received from
R. Schwerdtfeger, Morrisburg, Ont. Season mid Lo late winter; fruit somewhat resembling Princess Louise in appearance, flesh and flavor. Jacob Red was a medium, roundish, yellow-fleshed, firm pearance, also received from Mr. Schwerdtfeger. or plums, the first noted was Joseph, an Amer icana seedling, of the largest size, attractive in ap-
pearance, and one of the best in quality. It came up in 1904 in garden of Joseph Rowley, Sr., Cumming's Bridge, Ont.; flavor sweet, rich and good quality good orangeville ont an promising clingston. Judge Orangeville, Ont., A promising clingstone plum,
somewhat between Yellow Egg and Coe's Golden Drop in shape; medium to above in size; flavor
rich;; quality good. Another good seedling. sent by Mr. Judge, was much like Lomtard in outward vored.
From Jas. Tarry Try's B.C.
dasecived From Jns. Tarry, Tarry's, B.C., was received a
promising plum, sweet and of good flavor, not very
rich, but of good size group.
A cherry seedling, from Emil Anstad, Trail, B C., was grown from a seed planted in 1898 by
Mr. Anstead. A good cherry, evidently a Biggreau; fruit large and heart, shaped; a juicy
sweet, pleasant-flavored clingstone; season evident y late July
Mention
Mention was made of 17 new seedling currants fram C. L. Stepheens, Orillia, Unt., and 10 new
scedling gooseberries from P. Barrett, Truro, N.S.
The attention of Canadian nurservmen was drawn to the importance of having a larger list. of the Americana plums. There is an immense
tract of territory through Central and Eastern tract of territory through Central and Eastern
Ontario, Quebec and New Brunswick where the
European sorts do not succeed, hut where the European sorts do not succeed, hut where the catalogues of our nurserymen are Bixby, Mankato Admiral Schley. Rrackett and Oren.
At the Central Fxperimental Farm, in addition o those trees resulting from hand pollination,
hey have about 2,000 seedlings resulting from natural crass fertilizing, and of these about 4.34 have fruited. This year 441 were fruiting for the first time ing, of which 249 were fruiting for the first time A list of eighteen names was mentioned, for de
acription of which those interested were referred to the annual reports of the Experimental Farms
Other fruits are also being originated, but in maller numbers than apples. Several promising new black currants, originated by Dr. Saunders A. D. Harkness, of Dundas Co., was inclined to question the wisdom of planting the Americank
plum extensively. He had 24 trees of Wolf, Hawk plum extensively. He had 24 trees of woing to take eye and Stoddard which he was . Prof. H. I Hutt, another member of the committee on new andes said he had received few new fruits.
apples this year. but some other god from Th:
was something like the Crawford, tut which should
pear to possess outstanding virtues wing
cause it to displace other varieties in cultivation. another operation on the constituOnce more the constitution of the associatio equired amendment. In 1906 a long and rathe posed, re election of directors. The amendment adopted at that time provided that the four oldst directors be dropped off each year, and that was foreseen by a few that this would not always work automatically, as the total number of directors (13) is not a multiple of the number annutered. Of the necessary quota of retiring directors, two had been elected in 1902 and one in 1903, but four men had been elected in 1906, and the question was what one of the four should
give way to the rest. The matter could easily have boen settled this year by a voluntary retirement, tut the difficulty would be bound to recur. An amendment was, therefore, passed, to provide that no director may serve more than three years
consocutively on the directorate, but aiter one consocutively on the directorate, but arter one
year's lapse a former director may be eligible for
re-election.
REPORT OF CO-OPERATIVE COMMITTEE
Jas. E. Johnson, of Simcoe, Ont., reported for
the co-operative committee, which had met in Euclph on Fehruary 6th, and again in Toronto on February 20th. The spring work consisted parficularly in getting tagether a circular, giving of firms handling such supplies as spraying materials, pumps, hose, chemicals, etc., tor gether with wholesale prices for same. All the copies of this circular.
The
The committee also investigated various syscoms of bookkeeping for co-operative associations, plained to the Fruit-growers' Association at their ast annual meeting. It was found that the cost mercial work was too as used in ordinary combeing used generally by the association,
During the summer a pamphlet was issued. giving the names of co-operative shipping associations circulated largely at the Winnipeg Exposition and to various fruit dealers and other parties applying for the same in Ontario. The pamphlet conwork of these associations.
A recommendation was further made to the Denartment of Agriculture, that an instructor in barrel packing be appointed to visit the various and Mr. Backus, of St. Catharines, looked after this work.

Transportation matters.
bunting, of St. Catharines, Ont., said W. H. Bunting, of St. Catharines, Ont., Said
nothing very delinite had been accomplished by
the Transportation Committee during the past the Transportation Commitee during the past
year, their plans having been disarranged by the son, and consequent disorganization of that body Then, too. owing to the high price of fruit last year, it was not possible to make out so strong The committee were, however, a assembling facts
and data for subsequent use. The greatest present aricvance was the express business, though it
was satisfactory to note that in cume cusus bet "as satisfactory to note that in sume cases bet-
ter accommodation had been provided at shipping tations. He miderstood that the privilege had now been granted shifpers of assembling ship-
nuents at divisional points and sorting up cars. Huring the past year or so growers had experi-
enced a hardship in regard to distributing poods by express. At St. Catharines. for instance. they had been forced to abandon express and ship in
carload lots. This was detrimental to the interasts not only of producers, but of consumers in
the smaller places.
F. II. Smith voiced the astonishment of grow ers to find that the exprees companies had virtuwhich the fruit baskets of given size were esti-
mated. It was near the end of the season before they got lack to the old system. Mr. Suith com. plained strongly of the rates to distant points,
which were so high that ontario growers were los-
ing the Northwest market. for fruit. We must ne the Northwest market for fruit. We must
either get higher tariff, he said, or lower trans portation rates, and as the former seemed out of Wm.duction of shipping charges. Armstrons, of Queenston, Ont., urged that with a reasonable rate they could send vege-
tatles from Niagara Township to Toronto. Ho. hiloted a letter irom a transportation official onto, va Hamilton. on a 6-basket consignment

which he had voiced an emphatic complaint las year. Many of the grievances had been removed
and they were receiving practically an expres service at a low freight rate. They were now u
against a further difticulty with regard to loca transportation in Toronto.

FRUIT MARKET IN TORONTO.
H. St. C. Fisher, of Queenston, Ont., reported with regard to fruit-market facilities at Toronto For the past few years Ontario fruit-grower very unfavorable market conditions, until this year, when the facilities for handling it have been association took the matter up with the Toront. City Council, and in consequence a committce oi fruit-growers was appointed to confer with the $D$ for the fruit-growers in this respect, whereupon the City Council appointed a committee to meet the Fruit-growers' committee and a committee was also decided to call in the transportation companies interested, and deal with the matter in a businesslike wav. The committoes met at the City Hall from time to time to discuss ways and
means. The whole matter was sifted down in such a way that they have now a greatly-improved fruit market. The Grund Trunk Railway deserve credit for the wav in which they have improved that the City Council are inclined to wait until the water-front question is settled before they undertake to build a fruit market, 0 which all the ternis and retention of standing representative fruit market committee until such has been accom plished.
Scote old Great Western station at the foot of Scott Street (now known as the Scott St. Fruit into this city for several years past has been handled by the commission men, has been reno four times the floor sliace as a yoar ago; a new floor has been put down, the roof repaired, electric whitewashed. It is understo to have cost the G. T. R. something like $\$ 4,000.00$ to make the necessary repairs
But there is need in Toronto for one of the finest fruit market buildings on the continent Canada. The population is composed largely of genuine Canadians, who love things Canadian, and a first-class article put up in first-class shape. The St. Lawrence Market, where all the farmers
products are handled in this city, is a market that extend their efforts until they get exactly should they want in the shape of a fruit market. The City Council are willing to do their part, and if soon as possible build a suitable market, to which
all transportation companies will have access on The Canadian Fxpress Co., working in conjuncRailways, have the past season done much Trunk anding the fruit shipped from Queenston Station condition. They have a superintendent in To onto who is thoroughly familiar with the condito be thanked for procuring better shipping facil The Dominion Express Co., working in conjune tion with the Niagara Navigation Co., did their
part at the shipping end of the line, but when the
fruit landled in Torgnt decent place on the wharf fore was absolutely no o that it had to be loaded from the fruit trucks rachs to the fruit market, and then unloaded into is shipped from S. Sa Catharines and vicuinity to to
Toronto. Fruit-wrowers know that the oftener their fruit is handled before the market is reached show that the fruit market conditions in the City
of Toronto cin yet be reana BROODS OF THE CODING MOTH,
Quite an animated diser moth and its conted discussion on the codling noon. Fresident Peart set the ball rolling with
a few introductory remarks there are two hroods of codling moth in his secoun and over Western Ontario generally, but his
brooding they was that when once they start in hrooding they continum until it freeres up in other successive staces of the inscet are ogg, larva or
"orm. pura


to a moth, and escapred
Iater in the convention

mean by a single brood
mar insect will not cormul
not
are insect will not colln
istence and pass through
once in the twelveruonth.
 eexistence and passes through two peneruions.". .i. in some parts of ontario, but the dates when whes
pass through their successive stages are aflectid by seasonal condit ions; and, moreover, the inserte
of a brood wil
ont at patss the same stage at one time. In fact, the two broods may to a cer-
tain extent overlap each other. thus giving the appearance of cont inuous brood ny
A further ray try light was shed on this wexing
suliect by Proi. M. B. Waite, Pathologist of the U.S. Department of Arriculture, who remarked.
incidentally, in the course of his evening address that his co-wrker, Branch of the U. S. Dever
 broods of the codling moth was really caused by
another inscet, called the plum moth, which mahes another insect, called the plum moth, which mahe
a comparatively shallow hole into the apple. irresponsible apple buyers
The subiect,, "Commercial Spraying of the Apple ofers. Mack Smith, an apple buyer, who is also interested in orcharding, remarked that apple buyers are about the biggest pack of suck-
ers in the world. They start in July and chase ers in whe world. Tarmer to death to buy his apple crop. After the orchard is contracted, the farmer has insufficient or no interest in how it turns out.
He believed there were a larger percentage of irresponsible apple buyers than of any other class o sponsiness men. The Old Country financiers who
bus. back them were understood to be shutting dow
on these men. If they were shut down harder it would be a good thing for the industry, as they would then inspect more closely and buy better fruit. The speaker asserted that an acre of good
apples, if properly attended and looked after. apples, if properly attended and lened arter.
would produce as much as any other ten acres on the ordinary farm.

$$
\begin{aligned}
& \text { Coming to his subject, Mr. Smith named four } \\
& \text { important pests of the orchard for which spraying } \\
& \text { vas necessary : San Jose scale, codling moth, } \\
& \text { no }
\end{aligned}
$$ yster-shell bark-louse and fungus. The codling noth he considered the grealest evil, and he rees, and also spraying. Formerly he had been an address by Jas. E. Johnson, of Simcoe, he was impressed Johnson advocated three sprayings : 1) Before the buds had swollen; (2) after the

buds had swollen; (3) just as the blossoms dropped. Mr. Smith in his practice had omitted one of the early sprayings, but gave two thorough
ones this year. In 1906 and 1907 his orchard had ones this year. In 1906 and 1907 his orcharan who
been sprayed by a commercial sprayer, a man made a business of it. This year the owner super-
As for results, he instanced intended
his Ribstons. In 1906 he packed $41 \%$ firsts, $35 \%$
his seconds, and had $19 \%$ culls; in 1907 he had $199 \%$
firsts, $24 \%$ seconds, $37 \%$ thirds; and $10 \%$ culls; firsts, $24 \%$ seconds, $37 \%$ seconds, and practically
in $1908,80 \%$ firsts, $20 \%$ shat a dozen no culls : in fact, there were not half a dozen bushels of culls in the carload, and, moreover, it
was the finest car of Ribstons he had ever packed. was the finest car of Ribstons he had ever packed.
Mr. Johnson adocates only three spravings, and
and an an uses an excess of bluestone and lime, while as an
insecticide he uses both Paris green and white insecticide he uses both Paris green and white
arsenic along with the Bordeaux. Emphasis is arsenic along with the Bordeaux. Emphasis
laid on spraying just after the blossom falls, while
and the little the young fruits are still erect and the little sepals at the hlossom end are standing out form-
ing a little basin. The idea is to fill that little ing a little basin. it. will be ready there when the moth goes to lay her egg. Now, in the case of Mr. Sreedom from stons this one spraving alone Baldwins, Spies and codling moth, hat quite a few wormy apples, and was inclined to think one or two later sprach and
were necessary to cope with the later brood, and he also thought it importaris green. Travelling powerful insecticide than York State, he had found
extensively through New Yed arsenate of lead being used. The fruit, and did not still to be seen adhering toar he proposes to spray
readily wash off. Next year five: (1) During thy readily wash ond possibly five: (1) During buds are open-
four times, and
dormant season for fungus; (2) as bure ing; (3) as blossoms drop; (ason proves hot and
size of marbles, and if the season dry, would spray a
lead. He anticipated no danger of disfiguring th apples, and would 100 gallons water lead to in a very practica D. Nohnson, of his experience in spray not go
address, repeated
as this is familiar to our raders, we need have been into details. In ther district they and it ha


Apples Grown on Tree Sprayed with Home
Note that fruit is clear and free from scale.
o control those specific fungous or insect pests precise stage at which the spraving is done is one of the greatest secrets. A day's delay may in some cases mean the rionally if the first opportunity is not taken advantage of, rain may delay the work for days. Some growers undertake to spray too large an orchard with a single outtittempt to spray over 10 or 12 acres. A power outfit might, perhaps, handle 15. If an orchardist has targer areas. hese, he had telter in orcharns

$$
\begin{aligned}
& \text { TUSSOCK MOTH IN ORCHARDS. } \\
& \text { Johnson has been in the habit of }
\end{aligned}
$$

Mr. Johnson has been in the habit of spraving
three times: first in the dormant season for fungus. second for the bud moth. and the third time especially for the codling moth. Aussock moth, which gave them consideratle trouble in their district last year. In reply to a question. Prof.
Lochhead informed the audience that the tussock

pples Grown on Tree Sprayed with vi. Solution.
moth caterpillar hatches out in May, and remains in the caterpillar stage until about the middle of earlier than in the east. From observations
New York State, Mr. Johnson feared it was going o be a hard pest to fight. It appears to begin gnaws into the apples, some fruit showing only a slight scar and some quite a defacement. Spraying for this would appear to be necessary
bOTH ARSFNIC ANI PARIS GREEN. Mr. Johnson then described his spray formula arsenic. 3 pounds sal soda, and 1 pound Paris green to 250 gallons water, combined with the Bordeaux mixture. The idea of using both arsenic
ould not always he relied upon, and in such cases plishing the work In uning this combination he had simply followed the iormula as he had ob-
tained it in Aew Jork Stat.. and irom it he had To show the importance of sraying at the right time, the speaker stated that this year one
orchard sprayed a week late hail forn opples orchard sprace adling moth, whitc in the other
affected with the cod
not $2 \%$ were affected. As soon as the petals fall not $2 \%$ were affected. As soon as the petals fall
get the calyx end of the young fruit tilled with spray mixture.
Will spraying for San Jose scale kill the oyster-
shell bark-louse, was a question voiced by G.. C.

$$
\begin{aligned}
& \text { Caston, in reply to which A. N. Brown, of Wyo- } \\
& \text { ming, Delaware, asserted positively that lime }
\end{aligned}
$$ ming, Delaware, asserted positively will destroy the oyster-shell bark-louse

A resolution passed at a later session, request-
that the Yellows and Black-knot Act of Oning that the Yellows and Black-knot Act of Onas little peach. It was also proposed that legislation be enacted making spraying compulsory for the codling moth.
Over the rest of the programme we may pass Over the rest of the programme
lightly, reserving many of the papers and discus-
sions for subsequent use, when they will be more seasonable, and when space will permit their use seasonable, and when space will permit their use
more in extenso. Prof. Wm. Lochhead gave three papers-one on the apple maggot, one on the hlister-leaf mites, and a third on the black canker.
The handling of the strawberry plantation was The handling of the strawberry plantation was
treated in an address by S. H. Ritterihouse, Jordan Harbor, Ont.. and discussed by a number of other exprericnced growers. Prof. R. Harcourt.
O.A.C., (Euelph, andressed the association on Observations on the Use of Fertilizers in Geriman Orchards." While the Germans do not pretend to have arrived at such definite conclusions 'regarding the use of fertilizers in orchards as in grain
ond other crops, owing to the length of time it and other crops, owing to the texperiments with trees, still they are devoting themselves to a conscientious study of the problem. Meantime, fertilizers are
quite largely employed by German fruit-growers. quite largely employed by derman furun-grow. Prevalent fungous diseases of Ontario orchardia were discussed in a lengthy but very instructive
limelight-illustrated address by Prof. M. B. Waite, Fathologist, U. S. Nepartment of Agriculture The information given in this address also will be discussion varietics of fruits, and the address of Prof. Chas ${ }_{F}$ Wilson, of Cornell Tniversity, Ithaca, N. Y保

TENDER FRUITS SHIPPEN TN COLD STORAGE to rritain

Ruddick, Dairy and Cold-storage Commissioner, ottawa, addressed the convention on the shipment of early apples and tender fruits to
Great Britain. It was conceded that there was a large market in Britain for our early apples, pears and peaches, if landed in rood con-
dition. The action of the dition. The action of the Do-
minion Department of Agriculture in undertaking to guaran-
tee to certain steamship companies payment for space in given up wholly to shipments given uit, had resulted in some
of fruit
experimental shipments this year, and, white the prices realized had nut been very was encouraging to note that tion, and the receivers were
very well satisfied. Every consignee but one who reported on
the matter at all emphasized the importance of packing dessert apples in boxes, and recom-
mended the wrapping of very early apples. Mr. Muddick read ressing approval of the fruit, and offering various suggestions. Among others he read a letter,
written ()ctober $13 t h$, in which the statement was made that as English and French peaches were that date should make satisfactory sales. Ta indicate the possibilities of the British iruit market he referred to a correspondent who spoke o
peaches retailed at 10 cents apiece. After that he peaches retailed at 10 cents apiece. Arter
could easily understand the astonishment of the members of the Scottish Agricultural Commis sion, when offered all the peaches they could eat sprays for san Jose scale.
SPRAYS FOR SAN
feature of the Wednesday afternoon session A feature of the Wednesday afternoon sesslon
were the "Observations on Fruit Conditions," by seve the of the District Representatives of the Pro-
several
vincial Department of Agriculture. A. McKenney
cussing a series of spraying experiments which a bussing a series of spraying experiments "hich are
Aing conducted by the trovincial lepartument of
Agriculture. 1 he object of the work is to test different spraying mixtures as they come coun the
market, or, in lact, to test any inixure which is claimed to be an entective rentedy againat the San Jose scale. six distinct experiments were carried on during the past season, ,overing the following
 phur, Niagara ${ }^{\text {B }}$.
and VI. Solution.
The crude oil proved to be a very dangerous remedy. Although enfective against the scale,
there was great danger of destroying the trees; in fact, every tree in the experiment which was
sprayed with the pure crude oil was so badly damsprayed with the pure crude oil was so badly dam-
aged that it is hardly likely that they will recover. However, when the quantity of crude oil cover. However, when the quantity of crude
was reduced and emulsified, the effect was much better ; there was no burning of the foliage or bark, and the majority of the scale were killed,
the fruit being quite free from scale when harvested in the fall.
This is, however, the result of but one year s experiments, and it will be necessary to watch the
effect of the oil upon the condition of trees, in effect of the oil upon the condition of trees, in
order to find out whether a continued use of the oil will have an injurious effect upon them. the boiled lime sulphur, obplied Aprom the use of appe trees badly afrected with the scale. The
trees and fruit were alnost entircly free from such trees and fruit were alm.
at the time of picking. at the time of picking.
The Niagara Brand
The Nixure was applied and concentrated lime-sulphur mixture was applied April 29 th to sixteen apple with, seale. This mixture comes already boiled.
It is diluted, and applied cold. The strensth used in these experiments was one gallon of limesulphur to eleven of water. The mixture proved very effective as a remedy for San Jose scale. A comparison of the trees sprayed with this mixture
with those spraved with the boiled lime-sulphur with those spraved with the boiled lime-sulphur
geems to indicate that, as far, at least, as these two experiments are concerried, the homemade and
prepared mixtures are about equal. prepared mixtures are about equal.
medy applied June 25 th, at a st gallon of the mixture to 50 gallons of water This strength seemed to have very lititle effect upon the. Applied att, a strength of one gallon of the mixture to 25 galions of water, considerable effect could be noticed; many of the young scale were
killed, and there was no injury to the leaves killed, and there was no injury to the leaves, so
ar as could be seen.
However, as only one tree, which had been formerly used as a check, was sprayed, they are not prepared to state anything
definite regarding the summer spray nite regarding the summer spray
The other propriet ary mixture tested was the VI, fluid, of which a great deal has been heard during the past year. Twenty-five apple trees, badly en-
crusted with scale were spraved uyon April 11 th, crusted with scale, were sprayed upon April 11 th,
and again upon April 13 th, with the mixture, at a strength of one gallon to 100 gallons of water, this strength being recommended by the manuac-
turers. The results obtained from the use of this turers. The results otatained from the asa observations were taken of the trees at different times throughout the season. and at no time could any
difference be distinguished in the condition of the scale upon the trees that were sprayed and those The apples sirrayell with VI were, at the time of picking, litterally tovered with crate, and were worthless for any purpose 11 might be that effect
would be obtaincd if the vI. niixture were used at a much greater strength. Howw cr, according the results obtained from the exveriments con-
ducted this yrar. 1 Ising the strength recommended ducted this varar. "sing the strength recom
hy the manifacturers, it proved worthless remedy for San Jose scale.
 ward Co., Ont., has been doing some valuante in-
vestigational work regarding the liack rot and anker. We summarize his adldress: on the tree, black rot on the frwit, und leaf-spot
on the foliage, is one of the most serious discases in Prince Edward spread and serious enough th The cankers are familiar on the province. er trees and the limbs of matured single canker may cause the death of the tree or branch above the point ontrol will, in all probabiny, be se eased branches or trees, and the prom of rot-affected apples as they fall (on th ollowed by disinfection of the wound: (3) infuries : (4) re-heading of old tress where

main hranches in good condition: (5) keeping

Cine sulphur wash, before the buds swell um swome gyain ten davs later
Georghan bay district coxbrimenling wood, saicd that if one were to duperade waph
th. slatisticc orchards in the (iceorgian Bay Distrect. immerme tion as to estallishment of cold-storayey plamis taries and cider mulis ho misut concluwir and section was one of he most distingusherd invait dids tricts of the Irovince. However, whille therre ar numerous orchards, varying in extent fromen ome
forty acres, the spirit of the fruit-growerts is is moil what it might be ; their zeal seems to hare beect allowed to lag. The cause was ateributcd. oin
part, at least, to the system of selling to the part, at least, to the systern of selling to the
applle-buyers, which has resulted in rectucedil and profits. What was needed to texive the in dustry was a concern to hande the prodiweths and deal honestly and fairly with the growerss and
he believed they now had such a concerm in the nohe believed they now had such a concerm in whe
operative organization known as the Geeorrian Fruit-growers, Limited. With new ideras imuro
ond
 the co-operative association, and with the matural
advantages possessed by this rexion the (ieorerian advantages possessed by this region the cexorgian
13ay District should one day be cliassed as one of the best fruit-growing sections of the Proximoe, ii
not as the premicr one not as the premier one.
serions dificulty in Ontario County, was the the thack rot canker. though it was not so bad as in Prrino
Edward County.
Robt. Thompson, of St. Catharimes, reprorted mittee of fruit-growers, in conjunction withe remper sencatives of the nursery interest, had drawm up at
draft act, to be suggested to the law-makers was admitted to lee a compromise, but 3ur. Thomp-
 license nurserymen with an annual wiveenser and and
contained contained provisions against mishamine stodr and
substitution of varieties without consemt of the purchaser. Clase 6 read that, Amor marsery-
man, or agent of any nurseryman, shall be liable man, or agent of any nurseryman, shall be liable
for damage in the common courts of the Provinue within twelve months after the trees come into bearing, where fraud can be shown in the subst
tution of neme." The proposed act also called for pumblica tion of the names of persons or firmus ememedil in
the nursery busincss, by the Provinial Departmen of Agriculture, and suspension or camcellation of
the license in event of evidence that the mollder of the license in event of evidence that the folloter of a license had sold nursery stock conatrans to the
provisions of such act. In discussion, it was objected that the stipula
tion that action must be entered withein tuwelve months after the tree came into bearines sllownd mot
have been inclucicd, the po int being raised. in whis
covnection that some varieties do evince their true characteristiess io thee hlirst sear or two of bearing. It was also urged that un
onus of nroving praud should not be immpored onus of "roving fraud should not be immpesed or
the grower, but that failure to supply) treess of the proper varicty should be sufficient groumad fior re-
imbursement. Another speaker noted the embermee of any specifcation as to sounctness or mealth of
the trees Hovever the resolution was passed in the innocuous forme as drafted.

 deplored the carelessncss of the abpelt - pracking
 taken mont hs for then to understandh than
apple wast something lice an esg. and monal handled like a potato or turnit To a meoped
solution of the marleting problem, wee muset hav Some ustem that will insure the perscoman inter

## 


 he lad first on lyarrel and first wemen mamma.

 The "oxtario to have" he an untage that the


(then of high

ho pur-
nither sile of the hige, the intervening edge n each barrels 1 ,


 domage in shipment. The 24 -पuart berry crate
was taken as an example for desirable size and weighte Collat sistle cratess were suitable, if the
ost was not so high as to renove the probit from iruit-growing.
Production and distribution, as the two main,
ceatures or the fruit industry, and an even supply, at a reasonalle price, lea ving al fair profit for the F. $\mathcal{G}$. H. Pattison, of Winuna, in his discussion of markets. Too many growers did not pack
properly.
Travelling inspectors or duty at points io shipment were suggested. Three or four men or four months in the year would protect the
pubbic and assist the grover. The Fruit Marks Act was said to be a dead-leter, as far as basket
iruit was concerned. Of the various markets for fruit, the commission system demanded attention. Former cond-
cions, wherely the commiscion man kept the bulk on the returns, and returned the balance to the
grower, resulted in too many comminsion men. The order-and-quotation system, carried on by
ocal buyers, followed, and lysved to be a system local buyers, followed, and proved 10 be a system
that brought greater returns to the producer. For a time, improved quality went with this system, fairly. The result was an arrangement whereby uniform quotations were sent out by the various
rder-and-auutation men Sales through co-operative associations, first
 parts of the Province. They were doing a good educating the growers in fruit culture and in packinc. It also aflorded a very lavorable outlook
for the future of the average fruit-grower, if good Hor the future of the average fruit-grower, if good
managers were placed in charee. The ;ay of a large central orvanization. with the local associa-
tions co-operating. to control the sales, was anticinated.
The growers: side of the question was upheld
 tates that not ten per cent. of the product shipped ould give any cause of compriaint because of
wrong packing. or niv other doflcet ment could not lee expected to look after any
mand man's business.
WFSTractices A Western market for (Intario fruit was dealt
with by J. W. Crow, B. S. A. of the Ontario
 nilpeg showed that the quant ties received in that
city in a year were, 48 cars of strawberries, 430 ars of tomatoes, 680 cars oi peaches, pears and
ther small fruits, 600 cre 1.000 cars of apples. Froun Ontario the ship-
ments were 83,500 barcle of appies, 220 cars of omatoes, and 73 cars of peaches, pears and cante-
oupes
This showed that a market of consider
 If $\begin{aligned} & \text { growers were to find a continued development, } \\ & \text { hey must grade, }\end{aligned}$, ack and shil
 Mieased with the fruit shown at Winnipeg Exhili-
tion by the humio homat nent of
lut the tompriculturee markets. If hugh quality anul motdern packing
 nntario shimonents. omt froment British Columbian
rould be marketed the Regarding

 wer er mbined with
Ontario fruit could $b$ het and sol that infur






## great horticultural display.

 Some idea of the extent of the fifth annual Om-tario Horticultural Fxhitition, held in Toronto last week, can be gained from the fact that there
Werce approvimately 2, ,oop eutrics tabled or benched in the various fruit classess 1,053 syuare yards of
space, covered with hlowers and pluants, and 424 spaver covercd with howers and phats, and 424
stuare yards devoted to one of the finsts vegetable displays ever seen in Canada. "Neat and artistic
 a callection of horticultural products in educating
growers to strixe to suply
Eoods of growers to strive to supply goos on higher qual
ity, and in tetting consumers soc what ontio
 nual 1 isit to this great function was that the dis
play
隹 1908
was suerior to that of former years
 saive great creat tor stic Lawrence Arena on this
 that was rendered whe
were being scrutinized

FRUIT EXHIBIT
The superior quality of this season's apples, as The superior quality of this seasons apples, as
seen on the tahles, was a surprise to many, and
particularly to those not acquainted with On-
 the spocimens wever suticiently highly coloreato



 that
adept
aradualy parking antures and pears ans in the opinion
and
 upon but little. In a few casess it was found




 cradited with over-filinn In prowess among the districts, this year's
 chssful. Baldwin, Spy and King were perifiction








 ad an ateractive f variaus kinds. Mntario. though not st wuth in wituner as theer


## inature though other counties and




1, Re Thompson, St. Catharines; 2, W. G. Watson Dixie; 3, F. Stewart, Homer. Fameuse - 1
W. G. Watson: 2, W. H. Dempsey, Trenton ; 3 Rrown Rros, Humber Bay (iolden Russet - 1,
W. G. Watson; 2, Jos. Gillertson; 3, Brown Bros. Greeming (Thiode Island-1, F. W. Stewart; W
Norfolk F.-G. A. 3, W. Watson. King-1, W
G. Watson; 2, Robt. Thompson; 3, Jos. Gilbertson McIntosh-1, W, Marker, Humber Bay 2, Oshawa F.-G. A.. 3, C. L. Stephens, Orillia.
Spy -1, Jos. Gilbertson; 2, Jas. E. Johnson; 3 W. G. Watson. toxos ready for home market varieties; standard 1. W. G. Watson; 2, Brown Bros; 3, Oshawa F. F.
G. A. Gravenstein-1, R. Thompson; 2 , J. Guthrie; 3, Jos. Gilbertson. Ontario-1, J. B Guthrie; 2, Brown Bros. Ribston-1, Norfolk F.
G. A.i, 2, J. B. Guthrie. St. Lawrence-1, W. G G. A.; 2, J. B. Guthrie. S. A, B, J, J. B, Guthrie.
Watson: 2, Oshawa F.-G. An; Any other desirable variety-1 and 2, Norfolk F.-
G. A.; 3, Oshawa F.G. A. Export or foreign-market varicties, Ftanuss-
boxes ready for shipment (wrapped): Fameurol F.-G. G. Watson: 2, Robt. Thompson; 3, Norfolk folk F.-G. A; 3, Jos. Gilbertson. King-1, Jos
Gilbertson; 2, Oshawa F.-G. A. McIntosh-1, W C. Parker; 2, A. D. Harkness; 3, Oshawa F.-G. A. Spy-1, Norfolk F.-G. A.; 2, Jas. F. Johns
Jas. Gilbertson. Wealthy -
2. J. 13. (Guthrie: 3, David Whyte, Woburn. made by Alex. McNeill, of Ottawa, showed the Wrizes to be distributed among Norrurie; Brown Bros; Oshawa F.-G. A.; R. Thompson; W. H.
Demnsey: A. D. Harkness, of Irena; David Whyte Dempsey; A. D. Harkness, of Irena; David whyte
of Woburn; and C. L. Stephens, of Orillia. Fisher, of Burlington. Prizewinners included Messrs. Watson. Thompson, Guthrie. Brown Bros. Stephens, Gilbertson, Parker, C'aston, Johnson
Dempsey, C. W. Challand (Marburg), R. W Thomson (Filesmere), N. A. Brown (F.glinton), W. H. Stephin on iohawa), J. (A. Michacl (Brook (in), A. Be.nnett (Burlington), Iains Craig (Ingersoll), and iv. 1 ,'ears were judged by Murray Pettit, of Winona. The prominent winners were: G. Stewart, of Hamer, J. I3. Guthrie: G. A. Dalhousie, Wm. H. French, of Oshawa; Thos. Wely ines: $A$. W. Peart, of Burlington: T. G. Bunting. St. Catharines. For fancy packages of grapes
and boxed pears, the awards were distributed among Messrs. Thompson, Roberts
(inthrie, Smith, Tenbroeck, Bunting
For display of fruit in commercial packages, exhinited ly an acricultural or horticultural society, or fruit growers' association, tanre spac were $1, ~ N o r f o l k ~ F--A . ~ A . ; ~ 2, ~ S t . ~ C a t h a r i n e s ~$
wold-storage Association: 3, Grantham F.-G. A. For display of rruit not in commercial packages, exhibited by an agricultural or horticultural society or fruit-growers assoctation, eath exhibit, prizes were placed 1 Catharines Cold-storage Association: 2 , (irantham F-G: A. 3 , Norfolk F.-G. A.
For display of apples not in commercial packages. For display of apples not in commercial packages, exhly or fruit-mrowers' association, table space
 F.-A. A 2 Ushawa F-r. A: 3. East Simcoe

HIGH-CLASM VEGFTMBLES
In oxtra invorable scason in most of the vegeqequirements of the adigt mutge, resulted in high
quality throughout the winstalle section of the how. The exhibitors from Weston, St. Catharines, i.anington. (iuelph, points in the vicinity of Toronto, and various The east, possibly because of the dry fall. for effect, the long tables of cauliflowers, catbage, mions, potatoes, etc.. Leing very pleasing. Never
was such an array of cauliflowers seen in Toronto Onions, carrots and potatoes too were strong.
There were 30 axhiluitors of cabbage and 21 of Culd. Sime, of Carleton West, and R. H. Lewis,
Go
Familion, madic the list of the chicf prizewinners: Wm. Harris, J. W. Rush, Brown Bros., Jas. Dandridge and $\mathbf{F}$. $\mathbf{F}$.
Reeves, of Humber Bay ; J. B. Guthrie, and W. Reeves, of Humber Bay : J. B. Guthrie, and W.
G. Watson, of Dixie; Chas. Plunkett, of Woodhridge: John McKay and Chas. McKay, of Todmorden: R. McKav, of Norway; Thos. Delworth,
of Weston; Ed. Krown, of Wychwood Park; Thos, of Weston; F.d. Brown, of Wychwood Park; Thos.
Isenstead, of Strathroy; A. McInnes and Frank Whitehall, of London: John Creighton, of West Toronto. and F. W. Krouse, of Guelph.
Specials were awarded as follows Collection of cauliflower-1, R. McKay; 2, Chas. McKay; 3, Brown Bros. Collection of salads - 1, Brown
Bros.: 2, J. W, Rush; 3, F, F Reeves. Township of Et olticoke, special- -hown Bros. Collection of
onions-W. Harris. Collection of patateos-1, W. Harris : 2, Chas. Plunkett: 3, Brown Hros. Township of York, special for celery-1, W. Harris; 2, Council, Special for collection-1, w Hark County Council, special for collection-1, W. Harris; 2, J.
w. Rush; 3, Rrown Rros. Steele-Briggs, special Tor cauliflower-1, Chas. McKay ; 2, John McKay;
healtily flowers and plants. Flowers and plunts of all varietios, all shapes
and sizes, and all colors, had the major part of the credit for transforming the arena into a beauty but this deficiency was at least partially made up to have hurt the huds in some sepecembouses, seems left former strong competitors without a supply hit for the Ontario competition. Jennings, of Brampton. carried off most of the prizes. In
carnations the cards were distributed amongst
R . Jennings and the Dale Fstate, of Brampton, and A. Houle and S. A. Frost, of Toronto. Once gain was the front with good as in former years, but some of the other varietios, such as Richmond, were strong and healthy, and of rich colar. J. H. Dunlop, of To-
ronto ; E. Saunders, of Bedford Park, and W. Muston. of 'Toronto, also were prominent winners. . Manton, of Eglinton, won on flower banks, and as in some of the sections for special plants; his orchids being very attractive. A new begonia. which was obtained by crossing Gloria
de Lorraine and the Tuberous-roated, and which mired by manv. The awards in flower classes were made by w. Hall. of Montreal, and Chas. Tidy, of Toronto. in EVIDENCE.
Judging from the display of honey, Ontario beohoney, liquid honey, granulated honcy, beeswax and various features of the bee industry were in
evidence. The winners included Geo. Laing, of Torontn: D. Anguish, of Lambeth; F. W. Krouse, bers, of Cherrywood ; J. H. Thompsou, of Britannia, and R. F. Holtermann, of Brantford.
PRESERVED FRUTTS

There was a fair display of canned goods and
preserved fruit.
Prizes were won by $\begin{aligned} & \text { Irs. F. A. A. }\end{aligned}$ Depotee, A. E. Tenbroeck and R . Thompson, of St. atharines: Mrs. J. B. Guthric, of Dixie; F゙. G. Mrs. T Delworth of Weston. Miss E $G$ Grerich; of Pt. Dalhousie; Mrs. W. H. French, of Oshawa: M. K. Martin, of Toronto; J. L. Hilborn, of Mrs. J. H. Sparling, of Rowmanville, and David

## ONTARIO BEEKEEPERS' ASSOCIATIOH

## er the diseases of bees,

 short-cuts and mechanical devices in the apiary, warke songe of the leading features of the Provincial Convention of, Beekeepers, whose sessions were held in conjunction with the Horticultural Show in Toronto last week. The attendance was a live,representative one, and beemen who missed it
cheated themsel cheated themselves. The lecturer of the conven-
tion was $\Lambda$. C. Miller, of Providence, $R$. I. He tion was A. C. Miller, of Providence, R. I. He
is not only a practical beeman, but also a careful scientific experimenter, who handles tongue-tying
ing clear and inspires contidence in his hnowledge Messrs．House，Hershiser and Clark，of New．Iork sessions．
STRICTER LEGAL DEFINITION OF HONEY RECOMMENDED． Of the many valuable addresses，own of the by Prof．A．McGill，（hief Analyst of the moneyd by Prof．A．McGill，Chief Analyst oi the Miland simple laboratory apparatus，he demonstrated to
the convention chemical tests ior the purity of honey．He mentioned some of the more common honelterants，and advised that this association recommend a much more complete legal detinition
of honey than at present exists．Adulteration is of honey than at present exists．Adulteration is
rare among producers，bat tincre are certain manu－ facturers who are putting upon the market imi－ tations，labelled dishonestly，though not illegally． The stricter definition might get at these fellows； and，as A．C．Miller suggested，＂te might apply
the rule they have in the United States－not allow them to use the word＂honcy＂at all on their label．The resolution passed by the convention is as follows：Recognizing the importance of legal defini－ tion in the case of honey，this Association respect－
ully recommends the adoption of the following definition，as embodying the present state of our prowledge regarding canad the work of bees operating on the nectar of flowers and other saccharine exudations of plants， and contains not more than 25 per cent．of water， or more than 10 per cent．of sucrose（oane It does not give a blue color with iodine（absence of starch syrup），nor a red color with aniline dark color with Ley＇s reagent（ammoniacal sugar） hor a marked precipitate of dextrin on adding large excess of alcoho（allsence glucos syrup）
FOUL BROOD AND OTHER BEE DISEASES Of equally vital importunce，from the other
and of the business，is the matter of bee diseases particularly foul brood．Ail the inspectors of Apiaries reported quite a lot of the disease scat－ tered through the country，but they seem to be
doing good work，not only in stamping out dis－ doing good work，not only in stamping out dis－
ease，but in educating the smaller producers by
this contact with live men． 1 he convention ex－ this contact with live men．The convention ex－
pressed its appreciation of the help the Ontario pressed its appreciation of the help the mostarim－ Department of Agriculture is giving tha
portant industry，and thoeght that，like the
Thanksgiving turkey，it suggested ${ }^{\text {a }}$ more．＂Every portant industry，and suggested＂．more．＂Every
Thanksiving turkey，it
person who owns bees should know the symptoms person who owns bees should know toth of which have been frequently described，and should con
stantly watch for it．Now cones black brood whose progress through an apiary is so rapid that it may be undetected in the fall，and have 100 It is said to be more easily treatect than American foul brood，but it is so fearfully rapid when once started that prevention is far more important than
cure．That，also，is easy，according to Mr． House．Simply requeen all black bees with Italians．While black bees are an casy mark for the disease，Italians fight it，and clean up thei SIDE－LIGHTS ON MARKETING
That one is farthest from the market who has nothing salable，said Mr．Miller，on the above sub－ ject，to show that a profitable article must be
extra quality and cheaply produced．（iniformity of flavor，package and label are much to be de
sired to hold a retail trade． 1 llending flavors is sined to hold a retailerable extent，hut with ou fine Canadian flavors，that is hardly necessary Salesmen are born．not made，yet much can be in his own neightorhood．Joblers are not a re－ price committee in this Province has done much ports as early as they can．then advise as to the have done this，have seldom missed．In this ci nection，R．F．Holtermann read a paper on the in showed some alarming figures as to the trementous increase of this imnortation in the last few years． and nointed out that，as being solld there must be something sharv alio
ihrough the customs．

IMPROVEI MACHINF：I
The best in this line is the gasolum encine the extractor and the uncapping watan would as soom go hack to the nonroversible ext ractor as ane main．
to the hand－turned extractor．A one－horse engin． to the hand－turned extractor of Canadian mannu cacturers at a cost of from S6is un．The uncap
tem，and whatecer whithen into that systemions
or elsewhere must he lit
pass to have special clothing cool and airy．yet pays to have special clothing cool and airy，yet
closed at wrists and ankles to keep out bees．Then， There are clipping scissors，smoher and hive－tool he recommended the litter－carrier principle，with overhead track． 1 lives should not sit close to the
ground in spring ：the damp air that settles close ground in spring：the damp，air that settles close
to the ground is iniurious． OFFICERS ELECTED．
President，Wim．Couse，Streetsville：First Vice
President，W．J．Craig，Brantiord ；Second Vice－ President，Dennis Nolan，Newton－1：obinson，Secre－ rary，P．W．Hodgetts，Dept．of Agriculture，To Auditor，J．H．Thomson．Directurs．－District No 1．A Ihickson，Lancaster ；No．2．A．A．Ferrier
 say，No．6，Wm．Cuse，Stretsville ；No． 7 ， strong，Cheapside；No．9，W．J．Craio，Brant Cord；No． $10, \mathrm{D}$ ．Chalmers，Poole； 11, W，A inson：O．A．C．，T：I）．Jarvis，（iuelph．
In a paper on＂Measures to Prevent Swarm－ ing，＂Mr．O．L．Hershiser，of New York State，ap－
plies the principle that a colonv having a queen Dies the principle that a colony having a queen
of the present seasun＇s rearing will not swarm and requeens all stock at the opening of the sea－ Son by queens rearcd from his best stocks in fruit
He says：＂None will doubt that these young，vigorous qucens will more than renay young，vigorous quecens will more than repay Additional strength and prodnctiveness of the col－ ony．We have here a practical and effective plan
of swarm control－one that requires no extra de－ vices or special hives，with not much work，and that done out of the liusiest senson
Some members doubted the surcness of the rule aid down，that the
prevents swarming．
REVISION OF AMERICAN STANDARD OF PER－ FECTION．
general imeritation Poultry Association has issued a anv time bought a Standard of Ferfection，to
offer criticisms of said standard，and make sug mestions for its improvement．Communications may be sent to Fred L．Kimmey，Morgan，Fark， Ill．，and will be by him referred to the Revision
Committee of 1910 ，which meets in April． 1909 ． and suggestions and criticism should reach the Secretary by that tune，or earlier．
$\qquad$ Department of Acriculture has made preliminary
estimates of the rroduction of the principal crops
of the Inited States．a summary of which，with comparisons is as follows：

$$
\begin{array}{lrr}
\text { Crop. } & 1908, & \text { Av. } 5 \text { Yrs. } \\
\text { Corn. bush. } & 2,642,687 & 2,774,143 \\
\text { Winter Wheat, bush ....... } & 425,940 & 41,188 \\
\text { Sipring What, bush........ } & 234,180 & 244.517
\end{array}
$$

$$
\begin{array}{lrl}
\text { Rice (rough, bush. } & 22,718 \\
\text { Potatoos lush } \\
\text { Hav tons. } & 271.660 & 286,674 \\
\hline
\end{array}
$$

The atove crots. which represent approximately

$$
\begin{aligned}
& \text { this vear in th aggregate ahout } 3 \text { per cent } \\
& \text { an than in } 1 \text { and } 2 \text {, per cent, greater }
\end{aligned}
$$

$$
\text { C'rops and Nature of Data. } 1908 \text { 190\% } 1904
$$Pears


（Hinf oi Herm
Contario is bume represemtent at ohie ammat


The fourth session of the Nova Scotia Agriculturd．At the time of writing there were enrolled
3rd．An
forty students，most of whom are romforty students，most of whom are from NovaScotia，but also a few representatives from Neain．Three years ago，the College opened with anattendance of 15 ，which，considering the fact thatthe agricultural constituency is not large，wasthought to be a good beginning．As the present
enrollment of forty promises，in the course of theterm，to he increased beyond fifty，it is evidenthat the College is making a heatchy growth．ThNaritime Provinces are not so essentiany agricul－
tural as are the Western Provinces，and，moreover．the young men have strongly tended towards othecallings than agriculture．Considering this，itmust be regarded that the present enrollment at
The most difficult matter to overcome in secur
ing an attendance at the collere is the laloing an attendance at the Collepe is the labo
problem．In consequence of scarcity and highproblem．In consequence of scarcity and high
price of labor，many a student who would other－wise enroll has to remain at home．The Short Course，held in Janvary，in a largeLast vear．one hundred and seventy－five studentenrolled in this course；and，for the next coursewhich begins on January 5th，the enrollmen

## SITUATION WITH CANNERS

Are Canadian canning companies dealing fairly
with producers of the raw product，with the retailer and with the consumers？For years past com plaint has teen raised by retailers that canned goods were not suppleatale crowers were being paid starvation prices，the companies advancing their figures per bushel of tomatoes little，if any on the plea that increased running expenses would
not pernit it． In this connection，the results of the investiga tions into the canning industry，conducted at On son just closed，are interesting．With man－labor at $\$ 1.50$ per day，and tomatoes charged at 25 c －a
bushel，the Collece men have been able to ca at a cost of approximately 16 f cents a gallon can It has also been found mossible to average six
one－gallon cans from one bushel of tomatoes． Large canning companies，with extensive plants， and with woman－lahor，should be in a position to can tomatons as cheaplv as it can be done at
Guelph．But what is the situation？Wholesale quotations run from 26 cents up ahove 30 cents． Three－pound cans are sumplied retailers at from $\$ 1.00$ to as high as $\$ 1.27 \frac{1}{2}$ a doyen．Under these grower of vegetalles given a limited market，with out increased returns to make up for increased
cost of labor and capital on hand of higher value

## SPEAKERS FOR ANNUAL CHEESE－FACTORY

 MEETINGS．Pairymen＇s Associations of Agriculture and the ntario have been much gratilied at the results ollowing the attendance of special speakers at ter of $190 \mathrm{~T}-08$ ．Dairymen icular this year in following cloanly methods in the production of milk，and have used greater the Department is prepared to continue actories ance offered to dairymen last year，by acain send－ ar sleerial speakers to the annual meetings upon ，ilications for assistance at meetines in Eastern ario ta Frank Horns．Sant and for Western On ario ta Frank Herns．Mank of Toronto Chambers，

FAIR DATES FIXED．


Cumlth：

$\qquad$
$\square$


$\qquad$＊


$m$



frmber 19, 19018


MARKETS.

## TORONTO

At West Toronto, on Monday, Novemquality fair; trade good for best quality,
but slow for common.
Exporters, $\$ 4.50$ to $\$ 5$; prime butchers', $\$ 4.70$ to $\$ 4.90$, $\$ 4$ to $\$ 4.30$; common, $\$ 3.50$ to $\$ 3.75$; ieeders, $\$ 3.40$ to $\$ 4$; milkers and springers, $\$ 30$ to $\$ 65$ each; calves, $\$ 3$ to $\$ 6.25$
per cwt. $\$ 3.25$ to $\$ 3.50$ per cwt. Lambs, $\$ 4$ to $\$ 4.50$ per cwt.
Hogs, $\$ 6.25$, fed and watered; $\$ 6$ to drovers, f. o. b. cars country points.
REVIEW OF LAST WEEK'S MARKET. were : 384 cars, 5,867 cattle, 4,398 hogs, 9,803 sheep and lambs, 113 calves, and 89 horses.
The percentage of good cattle was a little higher than it has been for some
time, although the bulk of deliveries were If the common to medium qualities.
Trade was generally good, with prices
年 hrm, at last week's advance, whith good Exporters.- Wixport steers sold at $\$ 4.66$
o $\$ 5.10$ and dealers stated that they ould have paid $\$ 5.25$ for well-finished
attle. Export bulls sold at $\$ 3.75$ to
and quality bulls on the market that cost
$\$ 4.40$ and $\$ 4.60$ in the country.
Butcer 1.40 and $\$ 4.60$ in the country
Butchers:--Prime picked lots were

 $\$ 1$ to $\$ 2$.
Feeders and Stockers. -There has heen
 hoice steers brought ns high as $\$ 4$ :
tockers sold from $\$ 2.25 \mathrm{to}$ to $\$ 3.25=$ and
tome of inferior quality at $\$ 1.75$ per Milhers and Springers - Recceipt were
moderately large. of mondium to wood $=-=$


TO RENT andandale farm tillisonburg, ontario, can.



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& \text { head of } \\
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& \text { Anan } \\
& \text { known } \\
& \text { nowe } \\
& \text { for mix }
\end{aligned}
$$

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& \text { know } \\
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& \text { for } \\
& \text { or the } \\
& \text { o the }
\end{aligned}
$$




 THE E. D. TIILISON ESTATE, LIMITED. CHICAGO.
Cattle.-Steers, $\$ 4.60$ to $\$ 7.75 ;$ cows,
$\$ 2.85$ to $\$ 5 ;$ heifers, $\$ 2.50$ to $\$ 4.60$ $\$ 2.85$ to $\$ 5$; heifers, $\$ 2.50$ to $\$ 4.60$
bulls, $\$ 2.50$ to $\$ 4.50$; calves, $\$ 3$ to $\$ 7.25$ stockers and feeders, $\$ 2.50$ to $\mathbf{\$ 4 . 6 5}$.
Hogs.-Choice heavy shipping, $\$ 6.20$ to $\$ 6.25$; butchers', $\$ 6.10$ to $\$ 6.20$; light mixed. $\$ 5.65$ to $\$ 5.90$; packing, $\$ 5.65$
to $\$ 6.15 ;$ pigs, $\$ 4.25$ to $\$ 5.50$ b bulk o
sales, $\$ 5.85$ to $\$ 6.20$. sales, $\$ 5.85$ to $\$ 6.20$ lambs, $\$ 4.73$ to $\$ 6 ;$ yearlings, $\$ 3.85$ to
$\$ 5.25$.

## BUFFALO.

Cattle.-Prime sters, $\mathbf{\$ 6 . 5 0}$ to $\$ 6.75$.
Veals. $\$ 5.75$ to $\$ 8.25$. Hogs.-Heavy, ${ }^{55.90}$ to ${ }^{\$ 0}$; a fow. \$6.10; Yorkers, $\$ 5$ to $\$ 5.75$; pigs, $\$ 4$ to
$\$ 4.90 ;$ stags, $\$ 4$ to $\$ 4.50$ dairies, $\$ 5$ to \$5.75.
Sheep

CHEESE BOARD PRICES
Belleville, Ont., 11 13-16c. to 11/8.
Brockville, Ont., 11 fc . bid. Kinggton, 11 tc to 11 sc . Napanee, Ont., 11 gc,
Picton, Ont., 11 13-16c. St. Hyacinthe
 creame
25 c .

GOSSIP.
YRSHIRES by auction An introductory sale of Ayrshire cattlo from Hampton Stock Farm, at Hampton,
New Brunswick, is advertised on anothar page in this issue to take place on De page in trd, when 9 young bulls, 8 to 16 months old, including prizewinners at leading Maritime fairs, 2 yearling helfers
and several mature cows will be offerod. The young stock are sired by Imp. The young stock are sired by mp.
Netherhall Nobleman. $\begin{aligned} & \text { Catalogues may, } \\ & \text { be had on application. The date has }\end{aligned}$ be had on application. The date has
been arranged in order that advantage may bo taken of the reduced rallway passenger rates to the Maritime Winter
Fair at Amherst, N. S.
Messrs. J. Crouch \& Sion, La Fayotto,
Indiana. importers of Percheron, Belgian
and German horses, write: "At the coming International Live-stock Exposition, to be held in Chicago, commencing
November 28 th , we will have our usual large and splendid exhibit. We expect
to have not less than eighty head of high-class Belgian, Percheron, and Ger
man Coach stallions and mares. Kmon
and them are a great number of horses that
Won prizes at the big shows in Europe
this summer, and at the leading State this summer, and at the leading State
Fairs and Stock Shows in this country this fall. We were among the first American buyers in Europe this year, and
got the finest selection to be had. Our inquiries this season seem to be for a
better class of stallions. Buyers are
more particular, and wo do not believe a greater lot of horses ever crossed the
ocean than we can show you. W our friends and customers to visit our us the pleasure of showing them through. We prick our horses as low as any re-
liable firm can alford, and give a re

 antu foutuation.


The newspapers, of late, have been recount.ng, with more or less gusto,
the detalls of a great international auto-race in the united states, with
prizes ran ing from a

 there should be such a craze at the present day for metce sobiles, goggiemad, gaze uxed on which utterly precludes the enjoyment oi the peacerul scenery or
litule homely incidents by the wayand, imagine they are having a grayd boats stretch their legs and run making so many miles in so many
minutes. The contest is a mere matter of legs cool questions of judgment, 10 th practice a necessity, and yet the country goes widd
of the Marathon rac
wins the Diamond Couls Lou Schole the largest cities in the Dominionits work to hurrah for an Usler a Rutherford, or a Graham
which would scarcely recognize which would scarcely recognize itation to speak at the Canadial him.
True, really great men-men who now and for all time do not want to ve received with a blare of trumpets,
hey rather shrink from public recephey rather shrink from public recep-
thons and the gaze of the multitude. luons and the gaze of the multitude
but the point is this, that the differno of appreciation shows a lament
selves. Brawn, in conjunction with
mental power, is a goodly thing mental power, is a goody thing,
brawn, when put to a good purpose,
even at the direction oi someone else's even at the direction of someone else's
brain, is a goodly thing; but, after it not for the thinhers, the men who applied, and made life a better, noble and healthier thing for the world's the Spartan, let is not forget th Athenian..... In our sympathy
with the players and "r rooters" at a with the players and us noters mause to admire, now and again, the spirit o the youths who sat at the feet of
Epictetus and socrates, and which is Epictetus and Socrates, and which
not all extinct, even in this twentieth not all extinct, even in this twentieth
century. There are still men, perhaps more than we think, who have not given up the search for wisdom
and truth.
A young girl who "ran awa from home, " and was found in one
of our Canadian cities, with a sad tale of youthful depravity to tell turns out to be a "Home," girl, , al though bearing her foster-parents
name. This, is but one more example name. This, is but one mnore exampl
to illustrate the foolishness of con ferring the family name upon children from such institutions. No doubt
numbers of them are to be depende upon, have sprung from a stock re spectable, though poor, and will bring nothing but credit upon the name
they have assumed. Upon the other they have assumed. Upon the othe
hand, since there is no possibility tracing the genealogy of such waif back, there is alwass the risk of
taint. More often than not what taint. More orten than not, what
is "bred in the bone" may be depended upon to "come out in the
llesh," and the safest way to saie guard the family name is, ostensibly legitimateiy belongs.

Acting under instructions from Dr Hodgetts and the Altorney-General Colond Mctrae, Chairman of the
Gueluh Townshy Guelph Townshyp lsoard of Healch tion against the corporation of the City of Guelph for creating a public nuisance by running sewage into the
River speed, and it was shown that
the establishment of filter-teds was the only means oi enectively combat ${ }^{\text {ng }}$ The River speed is not the only waterway in (anada desponted hy
such conditions. 1 here is many another which, howing pure and clear
until a city is reached, passes below until a cily is reached, passes below
it a hing of filth and pollution, contaminating alke to man and heast. A
river as it should be is one of a farmer's most valuable assets, pro-
viding at once drainage for his land,
water for his stoch, and the rich pasWater for his stoch, and the rich pas
turage which usually grows beside scenic value, and the associations
whech, as long as lite shat last, shatl congregate, in the minds of the chil-
dron of the famils, about memories

## ing path. All told, it adds hundreds of dollars to the value of any farm,

 and dars to the value of any farm,and increasis the chances for sellingWin polluted by the fith of a city,
how..... every aduntage disappears, increased. ,o it preence. Our water-
nembers of the agency, with a posif cities will not voluntarily attend
to the proper disposal of their sew-
age, they should be made attend to age, they should bo made attend to
it. The comfort and sanitation of the country is by no means less imThree hotelmen in one sunall cit
in Ontario were fin dod heavily for sell ng liquor on election day, contrary to the Elections Act, and severa
others were fined for purchasing it Such procedure is eminently right and proper. No small percentage of
wrong-doing in our country exists be-wrong-doing in our country exists be
cause of laxity in the enforcement of laws-laxity due, possibly, in a ma Jority of cases, to the wilful blindness of those into whose hands has
been placed the responsibility of see een placed the responsibility of see
ing that the law is upheld. Querying that the law is upheld. Query-
loas it never occur to those of the
latter who find themselves thus willatter who find themselves thus wil-
fully or weanly negligent, that the only course to be tahen in honor by only course to be taken in honor by
the public official affected with such excessive tenderness of heart is resigor too partial to enforce the law which he has been entrusted with en forcing, it is surely time for him to make way for someone who can and
will do At.

$\qquad$
$\qquad$and only the physhat on rimatens if deductions man of an interview,knowing as 1 do that the weatme te printed, and the shects partially
while the platesblind pig,
duced.n only at theGerman Gov-
of the provo-
yuropean com-
ricle appear. The Governmental sy of ollivit
house-cleaning en idmul
disclusures in comme
partment of Marmen

| must rule, and the s... speak in regard to serio. <br> as the collective wisdon <br> "isers may permit. <br> Century, indeed, bids <br> nut only the presentai <br> cospel to all nations: <br> ed by the Laymen's mo <br> also the death of the archy. <br> Persia has <br> won, albeit on an unstabl <br> foundation as yet-a constitution <br> fortnight, has held elections tor <br> first representative legislation <br> sia and China are clamoring <br> protest which must be respected the masses have been educated unity of demand and effort: (ierm is compelled to call her sovereigh order. Whether in a Limited $M$ archy or Republic, the great man the future must be he who understands, best interprets, and meets the spirit of the great popul <br> The Collingwood, the most po ful British battleship yet comple and the sixth of the Dreadnou on Noveruber 7th. Incidentally, query suggests itself as to whet this tremendous extension of can halt with anything short of dulge therein. Some time ago, G Britain was will ng to consider question of limitation of armame but the movement was blocked Germany, upon whom, theref chiefly rests the responsibility for ceaseless multiplication of bat ships. So long as Germany keeps adding to her navy, Great Brit cannot stop: peace, indeed, depe deed, speaking in the House of C mons, on Nov. 12 th, Mr. Asq stated that the Government int maintaining the navy at a stre ten per cent. greater than the bined strength of the two strongest naval nowers. so millions of money must be locked up, practically dead, and heavy burden of maintenance laid on the people, in order that trage more costly, more unbearable |
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PEOPLE, BOOKS AND DOINGS. Professor Rutherford, for nine year McGill, but now in England, has
during his experiments with radio activi
atom.

Rev. Dr. A. E. Burke, of Alberton,
P. E. I., who is well and favorably Known among the readers of "The
Carmer's Advocate," as well as from end to end of the Maritime Provinces, has been appointed President of the
Catholic Missionary society Exten-
cion Mranch at Toronto. sion Branch, at Toronto. French dramatist, is dead. He wrote many dramas. the most famous of
which are "Madame Sans Gene," and Dr. James Fletcher, entomologist and botanist at the (entral Experi-
mental Farm, Ottawa, died last week Dr. Fletcher was an enthusiastic and thoroughly-competent scientist, and
his loss will be great, not only to
the chich keniality and manliness won for him, ut also from an economic st
eppelin airship, has leen decorated ey the Kaiser, having had conferred upon hi
Dr. William Osler has published a
hook, "An Alabama Stulent and
anch Other Riographical F.savs." which
uroves him a literary man and phil ospher, as well as one of the monst
aminent physicians of the day Czar Ferdinand of in constant dread of assassins, has organized a norenna!
serent police oi $43 n \mathrm{men}$ gnd
hunt- $\$ 173,169$ on last year's ligures, while the income oi
creased by $\$ 6,334$. The average amount of property
held by each pensioner, after the deduction of mortyages, is $\$ 168.00$, as
against $\$ 159.00$ in 1907 , and $\$ 138.00$ against
in 1406 .
The average amount of income The average amount of income
carned per pensioner is $\$ 38$ as
against $\$ 10$ in $190 \overline{4}$, and $\$ 39$ in agains
1906. Of the 13,569 pensioners on the
roll, no less than 2,605 have beneact increasing the allowance from $\$ 242$ to $\$ 727$ on property whereon a pensioner resides, and which produces
no income. The effect which the operation of
the old-age-pension measure has had on the annual expenditure for outremarkable. When the act came into force, in 1898, the outdoor relief
amounted to $32 \frac{1}{2}$ cents per head of European population. Within ten
years it has been reduced nearly
50 per cent. It is now $17 \frac{1}{3}$ cents.
Further, the relationship existing between the dopartment and the penmagistrates, whose duty it is to hear applicants for pensions, has been of a harmonious character, and in no the full penalties by law for misrepresentation respecting means or age. Finally, to settle the question of
pauperizing, it may be quoted that, pauperizing, it may be quoted that,
out of 7,384 males enjoying the benefits of the act, for the year ending March 31st, 1908 , there were 6 ac-
countants 2 architects, 1 auctioneer, countants, 2 architects, 1 auctioneer,
4 bookkeepers, 2 chemists, 4 civil engineers, 2 clergymen, 53 clerks, 3 commercial travellers, 1 creamery manager, 1 dentist, 15 drapers,
draughtsman, 403 farmers, 5 plowman, 1 goldsmith, 10 hotelkeepers, 3
journalists, 1 law clerk, 9 masterjournalists, 1 law clerk, 9 master-
mariners, 5 mining agents, 14 musimariners, 5 mining agents,
teachers, 4 phonographers, 1 post-
4 master, 3 schoolmasters, 8 solicitors, teachers, veterinary surgeons There were represented on
24 G different occupations. There were 1,071 miners, 3,353 laborers.
Among the 5,528 females on roll Among the 5,528 females on roll
at the same, date, there was 1 deaconess, 28 dressmakers, 1 governess, 158 nurses, 3 postmistresses, 2 sisters of
mercy, 1 teacher. mercy, 1 teacher.
There were 20
There were 20 occupations, among
which are noted 5,157 persons engaged in domestic duties
Now, in reference to the matter as The population of New Zealand is 937,578 , and may be said to be living under similar conditions to that
of ourselves.
In New Zealand, on the 31 st or
March, last, there were 13,569 perMarch, last, there were sons on the old-age-pensions books; 1,740 new pensions were granted,
but there had been 1,189 deaths, which, with 239 cancellations, made the total increase in number only
312 over the previous year. The percentage of pensions to the popula-
tion, eligible by age, is 29 per cent. In the year 1905-6, the pension was
increased to $\$ 2.42$ per week. The inincreased to $\$ 2.42$ per week. The in 812 ; in the succeeding year, 675 . The total excess of those on the roll
on the 31st of March, 1902 , is 793 . There are 657 Maoris (natives of New 7.ealand) on the roll. The num-old-age pension of $\$ 126$ per year is
10.774 . or 79 per cent. of the whole. Out of 7,487 pensioners who were 1899 and the roll in 1893 and drawing the pension, as against 38 per cent last year.
Out of 1,189 deaths this year, 337 are orikinal pensioners. There are
1,856 more male pensioners than fe 1,856
male. of thale pensioners than feexceed the males by one.
The maiority of claimants apply a the age of 74 vears: next in number
the ages 73 and 75 . Fighty of th pensioners are 90 vears of age. There Twre ei.nht of the age of 96 and over
Two are 10 .

89 per cont.; 538 are of the minimum ape, "hitw is are so years, since
the utt calme into force. there have been 33.2. chamants, and 25,61 . In was an... tem of investigatime 11, and 2,611 refated been reclaims, and 613 were turned down age and income. Twenty-three per cent. of the total claims lodged have
been rejected. Previous to 1903 , 78 per cent. of those who applied were granted; since 1903, the per-
centage has dropped to 72 per cent. centage has
The tropped to
total
cost of administration since coming into force, ten years
ago, is $\$ 1.69$ per hundred dollars pensions paid out, the gross payment
being $\$ 10,027,210$. On March 31st, 1899 , the avarage $\$ 82.53$ per head of 7,443 , a total of $\$ 817,497$. At the same period in head of 13,569 pensioners, or a total of $\$ 1,616,699$. increase for past year is only
The The increase for past year is only
$\$ 35,191$, against $\$ 63,370$ for the previous year.
It is fortuna
It is fortunate that we are in pos-
session of such accurate knowledge regarding actual experience esproading over a period of ten years in New Zealand. We may, therefore, fairly judge what is likely to be the experi population similar in manners, mode of life and general conditions. It would be fair to argue that, if multiplied by seven, we would not be underestimating our own, seoing that
we have barely six times the popula. tion of that colony

## The Quiet Hour.

OUR FATHER'S TREASURES The earth is full of Thy richesYour Father knoweth what thinga When we inclined to loot on th dark side of life, and expect evill to be lying in wait for us, we should do
well to read the 104th Psalm, which is a glorious reminder of God's care creatures. It describes how He Bild the water through the valleys for the whe asses; how He provides grass ior for the birds to nest in, and high The as a refuge for the wild goats.
The young lions seek their mpat from God, and the leviathan has the sea provided as a great playground "" to
play therein." All, both small and great beasts, wait unon God in sure trust that He will ""give them their they stand with their eyes upon the Great Father, they accept His gift with the simplicity of little chlldred.
That Thou givest then they gether Thou openest Thine hand, they filled with good." And we hardly need to be told that we are of more than a child in his father's house needs to be assured that he is more tenderlv cared for than the cattle in the stable if the animals find special provision made for them, ac-
cording to their various needs, man finds more than the bare necessities of life. There is not only " bread also "strengthened man s heart," but also "wine that maketh glad thi
heart of man, and oil to make his face to shine." Why chould we not growing up in our Father's house, is rich. His treasury is inexhaustible, and He knows what things we have -He is giving us-iust those things. and no other. No pood thine that If wa miss it. then it must he hecaus. we have take mecause

## THE FARMER'S ADVOCATE

- Out oi God's mails no letter i lost." How often we allow our
selves to iret and chafe because a let
ter does not arrive. And yet, if tha expected letter is really good for us
God is pledged to see that it is de God is pledged to see that it is d
livered-if we are trusting our live in His hands as dear children.
Perhaps you wonder why, if the
Father is so rich, He allows many of Father is so rich, He allows many o His dearest children to be so poor
But don't be too sure that they ar poor, even when they seem to be so.
It is possible to have a great deal of mone linen. and fare sumptuously ever fay. and yet to be terribly poor in the great things which no monev can
buy. Sometimes a millionaire, toss buy- Sometimes a millionaire, toss-
ing restlessly on his hemstitched linen, would eageriy exchange his luxury for the sweet, restful sarep which no money can buy, and
which is of priceless value. Many which is of priceless value. Many
mothers who are called rich by thi world are poor with a terrible pov erty, for their sons and daughters ar filling each day with new sorrow
while many, who are supposed to be poor, can look with glad pride on the children who are growing up like
olive branches round about their table. Love and goodness are not for sale. Let us realize the wonder for truth that we are God's deares treasures, and that a haustube riches are ours. He is giv ing us-to-day-the very thing wig-
need. Surely we can trust His judg-
ment better than our own. If He said, "You may go yourself into My, treasury and take whatever you like, reaching out to grasp this or that heart's desire. Then,
wise, we should refuse
knowing what the effect on our eterknowing what the effect on our eter-
mal future might be. We should come out and sav to our
the choice unreservedly in His hands -which is exactly where it is at present.
It is a very strange thing that
people should think the expression ople should think the expression, Thy will be done, pledges us trustful child should say to an earthly parent, "I will allow you to de-
cide evervthing for me, and give me only what you think will be good for me," he would hardly expect to be
treated with harshness. The pleased treated with harshness. The pleased
parent would make his days as happy as possible, not forgetting, though, the needful training and discipline which are a preparation for the im

$$
\begin{aligned}
& \text { portant after-life. } \\
& \text { Why do we }
\end{aligned}
$$

Why do we
views ? An earthly father who ald views ? An earthly lather who al-
lowed his child to waste all the precious years of youth without study kind. The weak, uneducated nature, so foolishly treated, would be no
match for the task of manhood. Such match for the task of manhood. Such
a child might well reproach his a child might well reproach his
father-all the more if he were very father-athe and able to give him all
wealthyary education and advantages necessary education and advantages
to fit him, according to his ability, to fit him, according to his ability,
for the future. Our life on earth is childhood in our Father's house. Here we are trained and educated for the the veil of death. Our Father never considers expense if only His children may grow strong and wise and beau-
tiful with the lasting beauty of holitiful with the lasting beauty of holi-
ness. How can He grudge any other ness. How can He grudge any ot her
expense, when He spared not His own
Son ? Son? His treasures are brought out. all His riches are outspread outpoured, without stint, or scruple
or jealousy, or fear-the riches of His grace wherewith God, Who is
rich in mercy, hath ahounded towards rich in mercy, hath abounded towards us, for His great love wherewith the
loved us, that He might show loved us, that He might show the
exceeding riches of His grace-riches exceech no present happiness can exhaust, but which it will occupy all
the roming ages to consider, and adthe roming ages and niov-rich which have no
mimit. Since they are to cont inue their
limer
ing out the real gold of life, which is girl once said: "I know that father "ill not go to heaven; he will never be a sad thing for any of us if our Father should allow us to become so
absorbed in shops, or clothes, or housekeeping, or farming, as to crowd
out the greater things and make us quite unable to understand and enjoy the life after death, where these
things will be priced at their true things will be priced at their true
value. Let us try to enter intelligently ining plans for us. He wants to make us great, and greatly useful in in-
fluencing other souls. Can we not accept cach gift from His hand as it
comes each diay It is certainly the grandest gift His treasury contains that we are a
late at present

$$
\begin{aligned}
& \text { Couldst thou in vision see } \\
& \text { Thyself the man God meant, } \\
& \text { Thou never more would'st be be } \\
& \text { The man thou art, content." }
\end{aligned}
$$

норе.
THE TEMPTED CHRIST. (Heb. 4: 15.)
$\qquad$
$\qquad$
To know. when all our needs we bring in
prayer,
That Thou didst, once, our human nature

Children's Corner.
SOME NEW GAMES
 have forgotten all about it, but she wil forgive me when I tell her that it took
a very long time to find enough that seemed good. However, here are some, and if you all like them, I may tell you how to play some more another day
Perhaps some of you can send in some Perhaps some of you can send in som
good ones too, but if yon do, you must be careful to make your explanations very
clear. clear. (1) Nouns and Verbs.-Here is a good game for the older girls and boys; a small blackhoard and some chalk is neces sary in playing it. All sit about in
front of the board, and someone is chosen to take the chalk. He or she writes list of nouns on the borrd until a mis-
take is made, when another tries it. If take is made, when another tries it. If any hoy or girl keeps on too long a
halt is called, and a trial is made with hat is called, and a trial is made with
verbs, adjectives, etc. (2) Fly Feather.-Get a small downy
feather and place the chnirs for the playfeather and place the chnirs for the play-
ers in a circle. The feather is then ers in a circle. The feather is then
blown into the air, and each player, by
blowing it, tries to keep it from touchblowing it, tries to keep it from touch
ing himself or herself. The person it
it falls upen pays a forfeit, as does als
the one who blows it outside of the circle.
$(3)$ The Four Quarters of the GlobeThe players sit in a circle, and one
stands in the middle.
middle ine one in the stands in the middle. The one in th
middle then takes a handkerchief an throws it over the head of another, call
ing out .. Furone!". If the one called ng out ." Furone! !" If the one called
no cannot name some place in Europe

( any they protend to sweep, and
This is the way we sweep the house
So early Friday morning
For Saturday they sing :
Thus we play when our work is done, Our work is done, nur work is done,
Thus we play when our work is done So early Saturday morning.'

THE BEST LETTERS
The first of the following letters, al-
well composed, so well writien, and so
neat, with such care in spelling, punctua-
ion and paragral,hing, that we decided at once to give the writer a prize, so ane
sending to Miss Muriel a book. Kingsey's "Water Balies" ... 1 hope you will like it, Muriel, and that some day
you will write us a composition about it. Dear Puck rer Dear Puck, -F or some time I have been
reader of the "Children's Corner," but this is my first letter. When 1 saw the questions on New \%ealand in the last long ago I read some very interesting
things on that country.
In the first place । would like to say In the first plate I would like to say
that I think a good name for the Club
would be ""Cour Bays and Girls' Club,"
 you, too, that 1 think it would be nice
for you to choose a subject every month
for us to write alout. 1 would like the for us to write alocut. 1 would like the
Club to be interesting and instructive. New Zealand is a lisitish colony, and,
like Canada, is selt-governed. These
large islands are large islands are in the Central and
Eastern Pacific Ocean, and iorm one of
Great Britain's greatest colonies. When Great Britain's greatest colonies. When
the Panama Canal is completed, New Zeathe new route from Furope and America
to Australia; and the magnificent harbors of that dominion will be the ports of
call for many of the greatest occann
liners. The way to reach it now from Hers. The way to reach it now from
Halifax would be to sall down the At-
lantic round Cape Horn and Pacific. New Zealand has a few citios and a
number of number of large towns. citios and a
city on the and, a city on the coast. has a very valuable
harbor, and many large ships call there. harbor, and many large ships call there.
There are also foll large towns on the coist, namely, Wellington, Dunedin, Na-
pier and Nelson. The towns are not pier and Nelson. The towns are not all
on the coast; there is one important inon the coast; there is one important in-
land town, Queenstown. This large town Ind town, Queenstown. This large town
is not, like some of our towns which
are sometimes dirty are sometimes dirty, with narrow streets,
but is full of scencry, with wide, shaded streets, and situated on a hill. of many
This duminion is formed of This dominion is formed of many
islands, but only two of importance, islands, but only two of importance,
which extend over a thousand miles in latitude. The population of New Zea-
land has reached its million mark. The and has reached its million mark. The and heloness to the in-




1 HE FARMER'S ADVOCATE
"Black Knight" Stove Polish
does away with all the dirty work of keeping stoves clean. " Black Knight" is always ready to use--shines quick as a wink-and puts on a bright, black polish that delights every woman's heart Pipes, Grates and Ironwork
If you can't get "Black Knight"
In your neighborhood, send name
of dealer and 10 f for full sized cal
The P. P. DALLEY CO. LItith hnmiok. one ray

Feeds the Hair Hay HISCOTT Hair Tonic
is assuredly the ideal remedy for por hair
and sick scaposex You will realize his if you
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manently destroyydib, Mur method of Elec
trolysis. Satisfa tion assured. Get BookHiscott
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## Dairy Farm,

 NEAR MONTREAL FOR SALEAs a Golng Concern, at a Great Bargain, for Excellent Reasons.


 snow comcs.
P.0.Box 953, Montreal, Que.

Current Events.
The election in Newfoundland has
resulted in a tie.
The l'ope on November 9th, cele-
brated the fiftieth anniversary of his
entering the
One hundred and fifty people were
Trowned by the siuking of the steamer
Taish, on the coast of Japan, recent-
An application for land grants has
been made to the Ontario Govern-
ment by
of 1885
An unsuccessful attempt upon the
life of Sir Andrew Fraser. Lieutenant-
ife of Sir Andrew. Fraser, Lieutenant-
Governor of llengal, was made by a
Bengali last week.
The Nominion Iron and Steel Com-
pany, Cape Breton, has received a
large order for steel rails from the
Government of New South Wales,
Australia.
Germany has abandoned her demand
on France for an alology for the in
orisonment of German subiects
Morocco. and it is hoped ${ }^{\text {t }}$
war cloud has again passed.
The first sod in connection with the
construction oi the Hydro-Electric
construction of the Hydro-Electric
Power Commission transmission line
in Ontario was turned on Nov 18th
but the towers will not be erected
until spring.
The Dutch population in South
Africa have asked that a large Brit-
ish garrison be kept in the country.
happy indication that the much-
feared racialism is dead.
The National Association of Manu-
iacturers for the Inited States have
more than 500,000 men will have
heen added to the original industrial
force of the country.
The election of representatives in
Constantinople for the new Turkish
Parliament took place on Novenber
9th. According to agre ment, of
the ten members of the city, five are
Mussulmans, two Armenians, and one
a Jew. * *
in hurling projectiles from dirigible
balloons wook lace at liserlin. Ger-
many, recently, in preparation for the
time when acrial warships will be
Cime when acrial warships will be
factors to be rectoned with in inter-

The Ingle Nook.


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H. D. SMITH, HAMILTON, ONT "ingleside farm. ABERDEEN - ANGUS CATTLE Several fine heifers: also cows and a couple grape grange farm, clarksburg, ont


NEMBER 19, NHM, ARMER'S ADVOCATE.

Sale Posponed
Dr. T. S. ؟prou'e, M. P, P, Ma kidale, Ont.
$\begin{aligned} & \text { Announced on another page in this issue, has been postponed. Date } \\ & \text { and full particulars will he given in a later issue. }\end{aligned}$
Important Introductory Sale of AYRSHIRES.
To introduce our stock to the public, we have decicide to offer by avection.
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POWER LOT
A Story of "Down East."
by sarah mclean grbene,
Rizhts of publication securrod by, the Wm. Wold

## Chapter xixiv.

Sea Gulls Embrace
I took the story of the refunded
money up to 110 ob next morning. money up to loo next morning. said. "I owe you-." said the lad; well, I won't tell what he said. But it isn't so hard giving up, and piloting
your chickens along to pick up the your chickens along when they turn a
fattest of the corn,
face and spirit towards you like face and spirit towards you like
Rob's. I was willing to make my faith in
Gar' Tee-bo's protestations of innoGar discretionary, but I was determined to find out whether "Grief"
knew anything of the dastardly plot against Rob. I meant to search against Robs oul for lurking crime. On my return to the River settle-
ment I came easily upon Cuby, fresh and handsome, doing the week's washing in the shed of the Tee-bo cabin. 'How d' do. Culy
Halloo, Jeem."
". You did your part mighty fine last night, Cuby-wonderful. are an actress and no mistake. "Wal'," said Cuby, deftly wring-
ing out one of Tee-bo's flannel shirts, ing out one of Tee-bo's flannel shirts,
a deep blush on her downcast face,
i.

Why the way, Cuby," I continued father and lide you know that your deck just after Rob and I did the
other day ?" "So ? -Jenar, chic said, lifting to
me a pale face that I knew on the
spot and the insturt spot and the instant to be an honest
face. "They mek to me as how they " Do you-honest-care anything about Kob Hilton, Cuby ? Tell me,
now." ."Me-l want them not to hurt
heem. I am good, Jeem Tur-ban, heem. I am goot, Jeem Tur-ban, mek a mock at me." She
shook out the wrung garment viciously, as though she would have liked to slap me in the face with it. But her voice and eyes carried a suspicion
of dammed-up tears. ". I see you do care for him, after $\therefore$ Heem!", She threw the wrung and shaken garment to a near-by ling it snapped my ear stingingly in passsmartly as if a boy had thrown it.
" Heem, the gre't stupeed lunk-a" Heem, the gre't stupeed lunk-a-
head. Heem! Loaf him !": she laughed, and her perfect teeth glittered in a way that actually suggested to me that their bite might not be
pleasant. do you love, then ?" I " "Who? Oh, you, mebbee," sle retorted, her eyes burning annihilation of me, her passionate face white with wrath. " Hou! That is it ! It
must be. How could it be halp!? must bi. How could it be halp' ?
You air so han'some, so genteel, so You air so han'some, so genteel, so
loafly-an' you mek so to mind your
own beezness ! Oh, vary sure it own beezness ! !", Oh, vary sure it
must-a be you ${ }^{\text {She laughed, and }}$ must-a be you !" She laughed, and
her leugh was musical, even when she her leugh was musical, even when she as That is not polite,", I answered, as if I had been deeply hurt, " to re-
mind me of my misfortunes. I did mind me of my misfortunes. I did
not think you would be so unkind to a man who was created plain and
rough, to throw his ugliness back in his face, and laugh at
not think it of you, Cuby
She burst into tears.
© Oh, Jeem, it is not me w'at "Oh, Jeem, it is not me w'at
laugh at you. It is you mek a laugh on me." She bent over her tub again, 'and her tears mingled with the suds, falling over cheeks dewy as a baby's,
and from long, dark lashes that hid and from long, dark lashes that hid
sedulously the storm of shame and
sorrow in her eyes. Now was she indeed in her eyes. Now was she and still the ac-
tress was mounting in her, her lip began to curl, and the clorthes in the
tub to dance a jig suggestive of ristub to dance a jig suggestive of ris-
ing passion.
. Well, who do you hate, Cuby ?" I made haste to say, by way of deflecting her emotion into some sale
and congenial outlet. "Jeem, I cross-a my heart "'-she
performed that action solemnly, her bright. wet eyes meeting mine stead-
ily-". I am getting hate of them "Ah, your father and Date ?
" Hush 1-yes ". Hush !-yes. I am getting hate
to be 'round here. They dreenkawful. They fetch home a lot of the dreenk, that tam' they mek' to go feeshin'. Jeem, tell-a me, where was
it they go -an' they fight on Rob An' heem one poor lunk-a-head."
an "Rob Hilton is brave enough to
distinguish himself in ever fought, Culhy. Rob is more of a soldier than you think." I want heem not. I want nevaire to go up On that hill an' have that Ma' Stag ree runnin in and makin
preach at me. Then, maybe you love Bate ?"
Mebbee you are a fool," she Mebbee you are a fool," she rebeen wringing clearing my head by the fraction of an inch on its im-
 Sting'ree !-be tam to heem !-w'a
have the audass' to knock me 'gi the side o' my house, till I draw the gun on heem, an' he run. Would I
shoot, look you! By tam, I would shoot heem !
The tears were decidedly exhaling in the bright flame of Cuby's eyes.
unable to keep back a smile, her aby-sweet lips: "I look here, Cuby you and me are old friends-and you know who's to be trusted. Old Jim are afraid to stay here-"
" I did not say I was afre' True, but you hate the atmosphere round your home here. You away and get quit of it all. And so many of the boys round here have been trying to pay court to you. ". Whan I tell heem, she replied with bitter emphasis, " his old greezle-top 'll be layin' more years than as one in the tomb o' the daid
folks," and the mate to the pillow case toak me a clean swat across the eyes, and there slayed, wet and heavy.
I laughed as I disentangled myself Cuby laughed, giving me a sidelong glance from her viciously-renewed ex-
ercises over the washtub.
"I I thought youl could
reproached her; "" but you are, like aproached her,
and tirls, silly and weak." are like
and took the doughed pillow case and took the doughty pillow case
over to the line, where I hung it up neatly with clothespins; in the same manner I suspended all the articles that has been hurled thitherward ting the kitchen towel, which took me ferociously in the neck while I was in the very midst of these travails. means?", I said, couning back to Cuby. It means," she serw ly, "t that I am brev'." can go right so. All of that. You "Ah no, Jeem, I go furder 'n as
that. drown herself long tam' ago biffore I rimmember, but they tell-a me. She leeve any longer, she lak' it not to very far-where there is no trouble her any more. Ah, she was brev an' me-I care not. I am brev' a so; an' I loaifa the water. It mak
me happy to sweem out vary far, an' nevaire come back where it is all trouble to me, an' some-that I
did once lak'-come an mek' at me." You ought to marry one of the sailo ". I shall nevaire marry", Cuby. "" I use to theenk eef I did to marry it mus' be a man w'at has a boat an' goes a-feeshin' I could
not loaf any other-me. nevaire marryy."
". Ther-me. ": There's Bingham Teazler, for one,
says he asked ye twice over last time his boat was in," said I, rather
harshly ; for I resented the look of composed martyrdom that had suddenly spread itself over Cuby's pricious and beautiful features.
"Is it your beezness, Jeem," quired Cuby sweetly, " to go aroun' tellin' folks who they shall marry? I thought you had a boat and went change' your beezness. Me-I should theenk you would be a-shem' of your-
self to go aroun' on such self to go aroun' on such beezness,
lak' a ol' hen, fooss, fooss, fooss " My business is sailing and fishing still. Only once in a while there's a Tittle devil of a wildcat ashore that
is more than old hens can is more than old hens can manage,
she needs a big man to train her She's a vixen and a torment, and a whole handful. I've got more folks to look after and more things on my with. But here's another-a married ' woman, too-that ought to be
behaving herself respectably behaving herself respectably.

$$
\begin{aligned}
& \text { uby laughed } \\
& \text { Married! }
\end{aligned}
$$

Married! I would tell anybody go mind their beezness eef I was married to tham only so leetle as I am
married to Rob Heelton. Get away, married to Rob Heelton. Get away,
you, from my father's house. You are stupeed. You hev' no bre'ns. It is a peety, for somtam' I theenk I lak' you-it is a peety God have giv
vou no bre'ns." you no bre'ns."
"Well, you have got to promise me
ane thing before I leave here; you

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ming
devil $\quad 1$ too far, you little shy sou will keep st ou promise. Now look me straigt
the eyes-will you promise ?" " Get away from my father's hous, and go you mind your beezness. Fo
I will not promise you not'ing-no, I will not, promise you not'ing-no,
will not." her, and I took both her hands, hold ing her at arm's length. The littl
hands were helpless in mine. hands were helpless in mine.
Her fearless, wild eyes smiled a me. never knew just how it was done but in that no longer. I held he in my arms, and I kissed per with a fierce will on her sweet, rebellious ( )
lips. lips. ${ }^{\text {lipro }}$ "Jeem, I promise-a you," she said. (To be continued.) SOLITUDE.
$\qquad$ shrewd,
How sweet, how passing sweet, is soli-
tude ! But grant me still a friend in my reWhom I may whisper, solitude is sweet.

Hyker-Bronson tells me he is taking
mud baths now mud baths now.
Pyker-Why, I
Pyker
politics.
have you secured ome of "The farmer's advocate" premiums


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Extibition: 22 pries oftered in classef for Maple
Syrup and Sugar. From this number 21 went to Syrup and Sugar. From this number 21 went to
users of the



An event of far-reaching importance to
the farmers and breeders of Shorthorn
cattle cattle in Ontario, is the dispersal by auc-
tion, on Wednesday, November 25th, at Markdale, of the entire herd of 45 head cattle, the property of Dr. T. S. Sproule, tinually increasing Parliamentary and other duties of the Doctor, which leaves
him practically no time to look after the him practically no time tord after the horns. The herd is essentially a dual purpose one, among which are a lew the he Flora tribe. the others tracing to
Heauty (imp.), Lady Jane (imp.), and Margaret (imp.). the whote mpking an aceptionatly choice and interesting offer-
ing. A large number of them are one-, Wo- and three-year-old heifers. and some in the lot. On the sire's side the herd
epresents the get of Forrester $\mathbf{3 0 6 4 3}$,


| ontario provincial |  |
| :---: | :---: |
| WINTER FAIR |  |
| (erecticat | Dec. 7 - ${ }^{\text {GUELPH, ONT, }}$ |
| Resmand |  |
|  |  |



1Clyde Park Imp. Clydesdales $\begin{aligned} & 1 \text { have on hand for sale several im } \\ & \text { porled clydedale }\end{aligned}$ ALEX. F. McNIVEN, ST. THOMAS, ONTARIO, IMPORTED SHIRES $\substack { \text { stallons and } \\ \begin{subarray}{c}{\text { Address } \\ \text { Aorrited }{ \text { stallons and } \\ \begin{subarray} { c } { \text { Address } \\ \text { Aorrited } } } \\{\text { DR. C. K. GEARY, St. Thomas, Ont }} \end{subarray}$

QUESTIONS AND ANSWERS Miscellaneous

PROPORTIONS OF SAND AND Will you please give me the right pro-
portions of sand and cement for making blocks for chimney - building, to be 12
by 16 and 8 inches thick? ans 16 and 8 inches of first-class Portland cement to five of clean, coarse sand
should make a strong block. WORMS FOR IDENTIFICATION 1 am sending you, under separate cov in my water trough in cleaning it ou hrough a glass, 1 found them a curion have a cough, I thought they might have got lodged in their throats and cause
them to cough.
I enclose a stamp for eply. state if dangerous, and what Ans.-The worms sent ane a blood-red color, and are the larve of a large species of midge (Family $\begin{aligned} & \text { Chironomidw } \\ & \text { he Two-winged flies). }\end{aligned}$ These creatur ive in mud and decomposing vegetabl
matter at the bottom of stagnant pools and are often found in watern for them
and rain-barrels. The remedy nd rain-barrels. The remedy forles fron ime to time, as a deposit is often ma hrough the decomposition of leaves a other material that may be blown int
hem. It is not likely that they ha aused the cough in the cows that correspondent refers to, though some
bern swallowed when these

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 action. The French roachers are a dig. Our prices are rght. and our
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horses as good as the best. Long. -istance Helephone.
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broken to harness and reliable in every way. E. DYMENT, Copetown P.O. and Sta

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pen of boiling fat from the oven spilt Pan of boling fat and. "The boiling
over her right hand. ran into the palm on my ina, sha sas.
and over all my fingers. $I$ was almost wild with the pain. The hand becam swollen, and arge inser fing fingers. For
over the palm and along the
 hand at all. I tried several kinds o
salves and liniments, but the wound salves and linents,
semed apparently no better. It was altogether too severe for theso preparaatoge
tions to heal.
andout this
Zam-Buk. I $\quad$ stopped using all other preparations and applied it instead. The
noter andication soothed $m y$ hand very frst application sot thed my hand
and seemed to draw out the fire and in and sement and as I kept on using Zam-
fammation; fammatial
Buk the blisters gradually dried up and disappeared. In a very sh
scald was healed completely.
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ness
It also cures eczema, ulcers, sores blood poisoning, ringworm, scalp sores, chronic wounds, blackheads, pimples, cold
sorese chunped hands. and all skin dis sores, chapped has. Kubbed well on to eases and injuries.
the chest. in cases of cold, it relieves the the chest. in cases of tightness, and applied as an embrocation it cures reumatism, scia
tica, neuralgia, etc. All druggists and tica. neuralgia, etc. All druggists and
stores sell at 50 c a bor, or post free stores sell at
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Novexamen 19, 1908


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$\qquad$

GOSSIP.
The annual meting of the American
Cotswold Revistry

 sele of registered Cotswolds same day The annual meeting of the $\wedge$ merican
Shronshire Registry Association will be be
 $10.30 \mathrm{a} . \mathrm{m}$. . in the Livestock Records
Building at the Union Stock-yards, Chicago. Illinois, during the week of the
graat International Stock Sheo great International Stock Show. Rich-
ard Gibson, President; Mortimer Loverard
ing, Secretary.


 business session, with good speeches and
music, of which at more
and music, of which a more complete an
nouncement will be made later. A. . nouncement wit
Temple, secretary,

The Saskatchewan Provincial Winter
Fair is slated lor March 23 to 266 next
 Show, Horsae Show and pure-bred catlle
sale have all been amended and will bel ready yo distribution Docember 1st. All
departments of the show are now open $\begin{aligned} & \text { deparmibitors in other Provinces. For } \\ & \text { to } \\ & \text { prize } \\ & \text { lists } \\ & \text { and } \\ & \text { information writo the }\end{aligned}$
the Seeretary, Mr. John Bracken. Regina

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Thirty or forty years ago it was abhorred. The average Japanese could not
induce himself to drink it.
But today Indure a household consumes one or two

 widely into vogue, because of its expen "As would have been noticed in the report, says the Livestocitournat, her.
conseruene of the hat of the weather
the results of this year's milking trials



puen bun the sten been greatly exceeded
anit what is most remarkahle is that th.
and
$\qquad$
record at any public trial in this country
we beleve one Tho idvergence was not due
to any considerabie giference in the
 ing way July 28 th this year, as com.
pared with August 27 th in 190 in.
The milk yirld was greatly reduced, that of of
the firt day, from which the butter teats
herre
$\qquad$
$\qquad$
$\qquad$


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aferoort prever oftrin:
 sons, ALTrov. ONT. Statom C.P.R. R. Trsprine. ."oou are like a pik. Do you Anow what aty ${ }^{\text {pig ig iq }}$ ". Jobny, "a pig is a hos's situe boy."

 matato to mark it 'refusad' or 'address
unknown...
 ote.. deastroying thim, had, like a groat many other farmers. give up tho ideeo
 yoar. When throshing time came. ho


 in the world did that other hashel como
Homm
Why y trom? Why, I only soved four


THE FARMER'S ADVOCAIR

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Females of all ages for sale of the thick-fereshed, low
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to our best imported stud ram, also. few or ore
J. T. GIBSON, DENFIELD, ONT.
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 Toronto winers Nearly every one a herd header. O. and STATION.
TWO IMP. BULLS of ofoclent buativy


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$\frac{\text { Burlington Jct. Sta. }}{\text { PLEASE MENTION THIS PAPER. }}$
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Twelve of the most noted Sooth cribes have reper
sentatives in my herd. Herd bulls: Soltish Hera
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dratid Requatheas my bert



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chice
onte
Rooal.






Sunnyside Stock Farm


Glen Gow Shorthorns

J. WATT \& SON, Salem, Ontario.
 diorA STN, G.T.R. AND C.P.R. willow Bank Stock Farm.


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BLOOD
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What Medical Skill Could Not Do Was Accomplished with
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If you are troubled with Headache do not
hesitate to use B. B.B. It is no new prohesitate to use B. B.B. It is no new pro-
duot, of unknown value, but has an established reputation.

OOULD NOT WORK. -. Mise Murial Wright, Muniac, N.B., Writeas:

 bottloe of Burlook Blood Bitters and they
oIltoted a complote oura.
Rlverside Holsteins
For sale: Seven young bulls from two to nine
months odd out of Reoon of Merit ows. sired by
Sir Pietertie Posch De Boer, whose dom and iste s.

J. W. Richardison, Caledionia, Ont. Holsteins \& Yorkshires R. Money, Brickley, Ont. All surplus stock of Holsteins sol
except this crop of calves. Ready ook orders for them. Best heady to Yorkshires, ${ }^{\circ}$ erate prices.
Spring Brook Holsteins and Tamworthe

 come and see Whil not exhibit this year. Stock
better than ever. A. CHALLMAN. BRESLAU
WATERLOO CO.. ONT. Maple Hill Holstein-Friesians
 G. W. CLEMONS, St. George, Ont.

 Also a 4 vear-old cow due in Oct., sire's g.dam sister
of Carmen Sylvia. G. G. Gillroy. Gien Buell, Ont. HOLSTEINS Choice bull calves, one to sidx White Rocks. Buff Orpingtons, one dollar up.
David RIfe \&. Sons. Hespeler, Ontario. Homestead Holsteins $\begin{gathered}\text { Bull calves for sale } \\ 8 \text { months old. }\end{gathered}$ cows with large A. R. O. records, and sired by Count
Mercena Poosch, whose dam and sire's dam average
 "Ever been in Siberia?" asked the reRussian refugee.

## Black Watch

Chewing Tobecce
The big black plag.

THE FARMER'S ADVOCATE

GOSSIP. bushels Acres Oats.-Treated part, 80
arce, untreated, 60 bushels,
increase, 20 bushels. Cost of phoshhate increase, 20 bushels. Cost of phosphate,
$\$ 4$ per acre; returns
besidem tratment, $\$ 7$,
besid biled remaining in the soil safe for future
use. use.
Sixty Acres Corn. -On 40 acres treated,
51 bushels per acre the second year after 51 bushels per acre the second year alter
treatment: 20 acres untreated, 34 bush-
cls; profit over all cost, $\$ 3.50$ per acre.
竍 cls; profit over all cost, $\$ 3.50$ per acre.
Eighteen Acres Corn on Clover Sod.
Ninety bushels per acre first year; 50
bushels corn (iniured bit bushels corn (injured by storm) second
year; 10, bushels oatts third year; 4 tons
clover in two cuttings fourth year; 125
pounds ihosphorus clover in two cuttings fourth year; 125
pounds phosphorus per acre applied and
onny half of it used in the four crops.
ald A new application of phosphate was
given this field last fall $-1,500$ pounds
rock phosphate per acre ton of ground
Eighty Acres Oats.-Treated part, 80
bushels per acres. $\underset{\substack{\text { ger acre. } \\ \text { pighty }}}{\text { given }}$ Eighty Acres Oats in 1907.-Forty
$\begin{aligned} & \text { bushels per acre, weighing } 35 \text { lbs. to } \\ & \text { bushel; germination teat, } 92 \text { per cents }\end{aligned}$ bushel; germination test, 92 per cent
Surrounding untreated fields, 25 bushels
weirhing 26 . Surrounding
weighing 26 untreated
pounds,
40 germination; second year, $2 \ddagger$ tons clover
per acre in first cutting; untreated, it per acre in irst coll.
tens.
Eighty Acres Corn.-Sixty-two bushels
per per acre; untreated, 45 bushels. The
part needing nitrogen was given 10 tons
of manure per acre in addition to the part needing nitrogen was
of manure per acre in addition to the
phosphorus, bring ing the formerly low phosphorus, bringing yields up to 60 bushels. $^{\text {and }}$
Such are the very profitable and agree
ing results in plain farning for one to
on four years on each of four fields involv-
ing more than 200 acres of land. They were secured by a very simple processs
First, confidence in the scientist and knowledge of what he is doing for the
farmer; second, personal conviction based on detinite and intelligent examination
of his own conditions third following or his inn conon, doing the deed. And
reason into action, dis.
Mr. Mann has no patent on this process.
Resides making paney his land is be Iesides making money, his land is be
coming richer instead of poorer under coming richert.
such renament.
Several samples of soil from this farm
s. were analyzed by Mr. Mann's son at the
College of Agriculture, showing a marked College of Agricashorus in most fields,
deficiency in phospor
nitrogen lacking in only a few places nitrogen lacking in only a few places,
and no lack of potassium. Small plots
in several fields were treated with differin several felds were food. Where phos-
ent elements of plant for
phorus was deficient, phosphorus added ghorus was increase of yield, and where nitro-
gen was lacking, nitrogen added gave
gen gen was lacking, nitrogen added gave
increased y yeids. confriming the chemical
enalysis. The benefis were so marked
that whole fields were soon treated with that whole fields were soon treated with
phosphorus and the manure used on those
porlions needing nitrogen. in som portions needing nitrogen. In som
cases narrow strips were left untreater
for check strips. The average applica
 orer ore.
coy opening and closing the drill) a
cording to the apparent needs of the so
in different parts of the field. The in different parts of the field. The re
sults are given at the beginning of this
 amsted soil experiment director visit
the Iniversity of II inois, was the on
hiny needed to closely connect the celo Thing needed to closely connect the cel
hrated soil tests of England and Illino
with the most successful farm practice
wuch experience gives great weight
She following conclusions hy Mr Whe her manuring is scientific depend
in the need of the land: if the soil need
uhaceloner and
 needed both phosphorus and mitrogen,
it would have ben profitable and scien-
tific to have added $\$ 1$ worth of phos-

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coming
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inthe Record of Merit. Nothing for sale but choice
bull calvect
WALBURN RIVERS, Folden's. Ont.



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young HOSTEIN BUULS. from 10 to
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man, high offcial backing; and is slose-
 out over 20 lbs . From these siresi
out of R. $\mathrm{O} . \mathrm{M}$. dams. are several
young but P. D.


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## HOW MRS, PLLLRK FOUND RELIEF

After Years of Suffering Dodd's Kidney Pills Cured Her.

Pleasant Point Matron Tells Her Suffer-
ing Sisters How to be Free From the Terrible Pains that Make Life a Burden.

Pleasant Point, Ont, Nov. 16 .-(Spe-
cial). -That most of the ills that the suttering womeno of Canada have to bear
are due to disordered Kidneys, and that the natural cure for them is Dodd's Kid-
ney Pills, is once more shown in the case of Mrs. Merric Cliarke, a well-known member of the Silvation Army. Mrs. Clarke is always ready to give her ex-
pericence for the benefit of her suffering Misters. sickness commenced twenty years ago with the change of life." says Mrs.
Mlarke. "My hralth was in a bad state. Water would run from my head which
Xould make me faint. When I came out In the fainting spentls I tokn fits. I wass
bloae ext till I was clumsy. The pain sunfered was awtul. It would go to my
feet and then to my head Nany doctory
 "topped the fits, and sevin noxes curea
me completely."


Springbank 0xford Down Sheep |FAIRVIEW SHROPSHIRE EWES
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Fergus. C. P. R. and G. T. R. $\begin{aligned} & \text { J. \& D. J. CAMPBELL. WOODILIE. ONTARIO. }\end{aligned}$ I CAN FURNISH JUST NOW A LARGE NUMBER OF EXTRA GOOD Shropshire and Cotswold Rams A large number of extra good Shropshire and Cotswold ewes, welve months old
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