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THE FARMER'S ADYOCATE \& HOME MAGAZINE
the leading agricultural journal the leading agridulural in the dominion.

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The Farmer's advocate, or
The William Weld Co..
London, Ont., Canada.
Dur Monthly Prize Essays. 1.- - No award will be made unless one essay at
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abie matter not full covered by the ne awarded
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all welcome.
We will give a prize of $\$ 5$ for the best essay
. which wheat, oats, barley and peas which have spring wheat, oats, buring the past season in the district yo which the writer resides, and the mode of
in whit
cultivation which has given the best results. cultivation which has given the best results.
Essay to be in this office not later than the 15th January, 1892.
We will give a prize of $\$ 5$ for the best essay which will name and describe the six most promising varieties of potatoes grown whe mode of
in which the writer resides, and the
mest culture which has given the best results. Eesa, to be in this office not later than February, $\begin{aligned} & \text { We will give a prize of } \$ 5 \text { for the best essay }\end{aligned}$ on corn and corn culture, the writer to name an on corn and corn ece most promising sorts grown in
describe the three
the district in which he resides, also the best and the district in which he resides, also the best and
most economical mode of cultivation before and most economical mode of to be in this office not
after panting. Essay to atter pianting. Essay 15 h February, 1592 . In writing on any of the above subjects des
cribe any new varieties ; compare them with cribe any new
standard sorts.

Stditorial

## A Word About Durselves-Retro-

 spective and Prospective.The present issue of this paper closes the second volume of the Manitoba and Western Edition of the Farmer's advocate. In these wo short years Manitobs has seen or the Last year was a fair one in some The present country, and a good one ill god one for all parta, year has been an wino difficulties in some few otwithstand. listricts. . the ADVare of success that has crowned their efforts has been almost phenomenal. It is doubtful if any agricultural journal now, or a any other time published in Canada, ever ob tained as large a number of subscribers or gained equal prestige in the same length of time that the Western Edition of the Farmer's Advocate has done. It has now a provincial and territoria circulation more than double that of all othe agricultural papers combined. Its circulation is larger than that of any political paper pursher in Manitoba or the west except one. Sfort On cess as this is not obtained without ehis sentence the first page of Voweling this Edition in referring to the it ever has been, an in -"'t will contur, as a acricultural paper, fear dependent, less in exporars interests, and liberal in against the where credit is due, always and gever watchful for the farmer's interests, with no axes to grind." No one conversant with th principles of the $\triangle D^{2}$ vocate will assert that thi pledge has not been carried out. Sometimes o the spur of the moment our criticisms have been severe, but in no instance has it been show that they have been unfair or astray. A sum mary of the advances made in agricutura institutions and associations in tho years reads something like this : The estans ment of one of the best systems of Institutes in the worla, the Central Farmers Institute, 1 . bred Cattle Breeders Associtaba Poultry As and the Territores, Industrial Exhibition.
In all of these matters the Advocate has been an important factor, and the prime factor. With important moverl established there is every a reputation so anticipate even greater success in the future than in the past. Among the question future than in the past. Among the questions
that western farmers (including residents of
be the extension and improvement of the organizations above specified and the develop ment of others deemed in the interest of agrical ture ; the different methods of cultivation and systems of manuring, to advance the ripening of wheat ; better systems of feeding and caring cattle and other stock ; best varieties of nativ grasses for cultivation ; best trees, and methods of growing them for wind breaks, bet caring for poultry, and method anan them for best resuls. Arom the best and most made for contriburs in the province. A number successful farms of some of the best animals in the Country are now being prepared for issue in the pear future. In fact, no stone will be left unturned to not only keep the Advocate in advance of all competitors, but very far in advance of them. In this we also ask the hearty co-operation of our readers and patrons. Kindly send us any items of agricultural information that may come under your notice. Say a kind word for us to a friend who is not a subscriber ; or, better still, send us his subscription ; or if any article will be of special interest to an absent friend send us a post card and we will send a copy. To our readers, contributors, advers tadered, with generally our hearly thanioy in the future, as in the hope that ibel parrana the past, their This issue of the
tion. Tin
Eastern edtrion
loses its twenty-sixth volume. Like our Western Edition, not only has it enjoyed a healthy, strong and steady growth, but the patronage extended to it by Canadian, America and English farmers is most encouraging. Dur ing the last five years its growth has been greater than ever before. To-day the circulation of fambis Advocal is three times ber printel in the combined circulation twice Canadian aricultural papers combined. There are very few Canadian homes where any agriculture does not regularly enter each month. Besides these there are thousands of farmers scattered all over Canada who have taken the Advocite for years and have never taken any other Canada the Eastern and the Western Editions of our paper offer far better advantages to advertisers than any or all of the other agricultural papers printed in Canada.
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Manitoba, the Northwest Territories, British Columbia and the Northwestern States) buy, advertise in our Western Edition. Our Eastern Edition reaches the dwellers in Ontario, Quebec New Brunswick, Nova Scotia, Prince Edward mid Midle Sar and Middle States. We have soores of unsolicit which express satisfaction with resilts obtain for moner paid position is steadily growing better in this, ss our subscription list is rapidly in month.
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By subscribing through us for any of the papers we have and expense. Remit by post-offic order or registered letter ; a P.-O. order is the cheapest and safest.

## Dur Live Stock Premiums.

 As in previous years, we continue to give live tock as subscription prizes. All animals sent ut by us are good individually, and possess ood pedigrees. See our advertising columns
## Scraps from the Shows.

It has sometimes been said that one exhibition one you hie another that when you have seen very far frove practically seen all; but this is servant the beito the case, and the more ob a careful trudy of the more he will learn from our large exbition ever difering details nent features may be simile that the promi sheep, etc. - the stalls filled with , cattle breeds as last year, but always different, eve changing; making progress it may be, or a fal ing back from a former high standard-chang difference, and ated by those who can see the when seen. For those who rarely see erese hibition the interest is intense, and for those wh make it a habit year after year to be on hand the shows it is a great educator, and also a tim of renewing of old friendships-a time of glad handshakings with acquaintances seldom see but at the annual fall fairs. Few can go and spend a day without seeing something new, learning something not known before. For th farmers the exhibitions should be great object lessons from which many valuable lessons ma be learned.
The matter of exhibiting horses is still in rather a crude state. The new stables at To onto are an improvement in this respect, but and the othrs are $P$ the whole, promise great things whe the director Commons ; and it does seem, standpoint, a pity that such a ground should kept idle for the sake of a week's toret pratis for volunteers, who in using it are endangerin the lives of the lieges. The Montreal stable are much better than the old Toronto ones, and the passage ways for spectators are kept moder ately clean, which is more than can be said for Toronto. The horse ring is always a great at traction to the fair visitors, and some mean should be provided whereby a sight of the horse may be got by those anxious to see them. This cannot be done at present. A seat on the gran stand at Toronto gives a distant view of a numof horses seen through a foreground of th tawdry tinsel of an acrobat or the wild racing an imitation cowboy. If a cheap fence stand be takon, only those horses close at hand can be seen to advantage, the ring being too large to note the points across it, and one may wait ther for days before getting a glimpse of some animal on exhibition he specially wants to se
It is time that sowe system of thoroug It is true that, speaking generally, our fairs horses are very sound both in wind and limb the late shows, however, there were hin. At and awarded prizes, that were not sound and could not have passed veterinary inspection. In the case of stallions this is to be specially re gretted. It may be said that the judges should see to this ; but it is hardly their place to do so especially, as is sometimes the case, the classe are not full, and when the matter is referred to the attending director the reply nearly always is "give him the prize." Horses are sent out in this way as prize-winners at our leading shows that are unworthy such a record.
indefinite one. Some may think that the Clyde are the best agricultural horses, and many other by the class they breed, evidently are in favor of good deal of trotting blood in the agrisultural nim. The consequence is that many of the are well how are of mixed breeding, and othera to wo brod enough out of plare find animals of that bred class for Clydes, to tered) being shown in the (imported and regis cause they had no chance to win aral class be regular class. That old stand-by, the their Purpose class for horses, has been in General wisely restricted to females, and the ano well be done with others, though there who strongly advocate the general purpose ide in different classes of stock ; and one enterpris ing individual went so far in thit line as to have a pig harnessed and trotting $/$ (a sulky-a gene ral purpose pig.
Hackneys are coming into favor, and for the first time there was a good display of the breed both males and females. They are very popula in England, and are fast winning their way in the States. Very high prices were paid by Am of the it is choice specimens their rea. 1 is time they had a full class in road horses work, they at all times bring apod for city fancy drivers, and are besides good prices for Strangely enough this horse from land was largely shown by Scotch Clyde bag ers who seem to have talon them up welcome addition to our show

There was the "***
There was the usual talk about overfeedin sheep as well. The "pink of condition" and reached without some risk, and while man animals shown were overloaded with fat, it wa not always the case that the fattest got the prize Fat will cover a number of faults, and is useful in its place. No doubt juages are apt to favo the steekest, fattest annua, and if chey make a allowance for other points, why should they not it must be provoking for an exhibitor who ha at great expense of care and feed brought out his horse rolling fat, to get beaten by any inferio "fooking specimen, because the juages went for Weet and feather, rather than "form and fat. We are no worse than our friends in England. and breed from them the prize-takers; yet this ham year they wer with Smithfield champion with Smithfield champion
The sheep classes were good, and while there were at all the leading shows a number of imported animals, there was a fair proportion of coloring the fleece for show. The system of shape with the wool shears seems to be coming more and more into fashion here. First begun by importers bringing animals so colored from the English shows, it seemed to be more general this year than ever before. That a sheep should look better by having its fleece colored artificially is not at first apparent. The trimming is nother matter. The sheep this year were extra good, and were well shown. Canada is specially will yet be a great source of wealth to the country.

Still Fighting Pleuro-Pneumonia. The official report of the United States Secre tary of Agriculture to hand for the past year district in the State of New Jersey from whin the infection of penro prenmoni hom which been eradicated. The battle against this deadly contagious disease is still being contins this deadly Hon. Mr. Rusk hopes before the end of the present fiscal year to be able to declare its com plete eradication. The claim is again set up that owing to the confinement of the disease to that district, and the other measures enforced by the U. S. authorities, foreign restrictions (meaning particularly those of Great Britain, no doubt) against importations of cattle from the Republic are without justification ; but there is no disposition on the part of Hon. Mr. Chaplin, the British Minister of Agriculture, or his advisors, to regard the question in that light or to

## Our Horse Trade.

In these days of more or less depression in agriculture we hear a great deal about there being no sale for horses, and how the American ally told that there is no money in honges now a-days, and the man who attempts to make any money in horse breeding will be wofully disap pointed; and yet, only a few weeks ago thirty four horses shipped to New York by the well known Toronto dealer, Mr. W. H. Grand, realized total of $\$ 17,029$, an average of over $\$ 500$ head. These horses were all bred and raised boeding in yet there is no money in hors cile these two statements, for there is not a prac cile these two statements, for there is not a prac at such a price as $\$ 500$ in New York there is a good profit for both the breeder of the animal and the dealer who handles him? The explanation is simply this, that there is not one farmer in one hundred breeding the class of horses that will bring these priees. The horses shipped to New York by Mr. Grand were all light, the lot comprising hunters, saddlers, dog cart and carriage horses, and cobs, and we are only quoting the words of a very large American dealer when we say that the market for such horses in the States is almost unlimited; but they must be the right pattern-they must show at any ratea dash of thoroughbred blood, and in the case of har ess horses they must have plenty of knee action Now, we would ask, how many farmers are mak guld point out the fact thita an found in the very fact that so many of our best thoronghbred sires have been taken out of the country, and what are left are barely earning living, while the same is the case with regard to high class sires of harness horses, when suct horses as the thoroughbred horse Topgallant, the Hackney horse Young Nobleman and other sires, such as The Swell, owned a few years ago by Mr. Wilson, of Paris, are allowed to leave the country because farmers will not give their owners any encouragement to keep them, but prefer using grade stallions at a low fee. Is it ny wonder that we hear on all sides that there is no money in horses? It is high time for Can adian farmers to drop the scales from their eyea in all other businesses, it is only those who make a point of trying to breed what is in most demand
that make any money.

## An Agricultural Hall Required.

 Alderman Frankland's speech, delivered before the last meeting of the D. S. B. A., is reported this issue. Again he refers to the great need an agricultural hall for the province of huilding Not ony does Ontario require such a houid , prors in the Dominion in their various associations. Agicultulat ive stock associations beeme bor and ach year, and as time goes on they will continu to increase. Toronto is the most central point Other important reasons also make it an exceed ngly desirable meeting place, but at present a suitable hall is not always available. One association will meet at one place and one at nother, seldom meeting twice consecutively in he same building. This is very trying to armers who come to these meetings from a distance, and are not well acquainted with theity. This fact alone causes many to absent themselves. Much has been said and written regarding this matter. All know the great need帾 An active, determined man could accomplish the desired end, if such a one would but take the
nitiative. Alderman Frankland says his friend would give $\$ 1,000$ to aid such a parpose. Mr. Frankland would perhaps do similarly, and
otherwise materially assist the venture. Such otherwise materially assist the venture. Such
a building should be suitable for holding fat stock and stallion shows. The ground floor should be large enough that all the animals on
exhibition could have stalls in the building. xhibition could have stalls in the building. The second floor could be used as an exhibition accommodate all visitors. Large stables in cities are now built with one row of stalls above
the other. A suitable audience room he other. A suitable audience room conld b
ad in some part of the building. Who will make a move in this matter?
It Pays to have a Definite object in View.
Mr. Dryden, in his speech reported elsewhere speaks of the damage done Canadian flocks and herds by the promiscuous manner in which armers continue to breed their live stock. To be successful every farmer should have a definite object in view. In selecting a breed each farmer hould buy the sort best suited to his surround ings and needs. Do not intermix the breeds mistevep the one chosen. If it is discovered necessary change should be made; then stick to the sort chosen. A well-known farmer in eastern Ontario twelve years ago owned a very good herd of grade Ayrshires. They were saiu to be the best dairy herd in Renfrew county at hat time. His neighbor bought a Holstein bull. Farmer No. Y bred his Ayrshire cows to this bull for two years. He then used a grade At the present time his herd would not bring ver $\$ 20$ per head if put up and sold. Farmer since his first purchase continually used a Hol stein of good quality. Although his foundation cows were not as good as his neighbor's, at the or all practical purposes, are as good as pure bred Holsteins, and from which an expert could
not distinguish them. The lot would, if sold, eadily average $\$ 50$ or more per head, being
worth at least $\$ 30$ per head more than his neighbor's mongrel lot. This is not an excep tional case. It is the rule, not the exception, for farmers to thus cross-breed their live stock
Few men have a definite object in view in breed ing stock. From this cause alone thousands of $\left\lvert\, \begin{aligned} & \text { ing sto } \\ & \text { dollars } \\ & \text { year. }\end{aligned}\right.$

## The Judging Ring.

here the present exhibitions fail. The object for which exhibitions were first inwell as to a encourage the improvement of breedally. The premiums awarded to the successful competitors were greater efforts on the part of exhibitors. The show ring is full of instruction and pleasure to the newly installed breeder or young beginner contemplating purchasing better animals of How closely the looker, in order to find how the decision of the committee coincides with the outside. What criticisms are heard round the ring as each fresh ribbon is tied. Each year the crowd of onlookers gain in knowledge. They have had one more year of individual experience, they are thorough. ly interested in the breed that is represented in the ring before them, therefore, have taken pains to know all about them, and are wishful to learn more. Instruction should be one of the chief objects of the judging ring. From whom does the onlooker expect to derive his information except from the judges or judge? They or he act in the capacity of instructor. Yet how often we hear men, when acting in this capacity, rebest." Probably if ain that suils me the oser . An fact it is the anthat such men real appearanoe alone by the decisions they make. Every year brings the same discouraging abuse Men receive and accept the position as judge on animals they must be perfectly aware chey have no knowl. edge of. Cattle men are placed on horses, sheep men on pigs, and, perhaps, a dog man has cheek enough to judge all classes of stock. If there were no judges of stock in our country, the question would be a hard one to solve, yet all must agree that there are numbers of men that have made a success of the different breeds of horses, cattle and sheep they have bred. Without judgment and knowledge these men would have failed. Then, why are men placed in the judging ring who never owned a good animal of the kind, decide? In Ontario and Manitobe are asked to well established associations, composed of promi nent breeders of horses and cattle, and a most effective Sheep Breders' Association, representing all breeds, also an equally effective $S$ wine Breeders' Association. In all cases the whole of the prominent breeders are members of one or more of these. It is, therefore, in the power of these associations to do as they wish on any oint relating to the welfare of each breed, or of
the breeders generally. The appointment of judges is acknowledged to be the most difficult question that fair managers can arrange satisfacwhile acknowledging the men recommended as capable for the position by the respective breeders' associations, for except in a few instances
the selections advised have been the selections advised have been entirely ignored.
If any man, or body of men, are capable of If any man, or body of men, are capable of
stating who are competent for the position of jurging a class of animals, it is the breeders of
that class. Should it be necessary that class. Should it be necessary for the breed
ers to assert their rights in this matter it will be in order for them to agree to absent themselve from any exhibition at which judges are ap. pointed outside the recommended list sent in
for any breed. All that is required is action by the members of the different breeders action by ons, mem their wishes will be recognized
aasociations and
to a certainty.

The Origin and Formation of Soil with Special Reference to Ontario.
by J. hoyes pantos, m. A., f. G. s. If we examine a vertical section of soil in any part of the province of Ontario we shal followin characters :-
. $n$ ideal section of Ontario scil.
erystalline; some of a salmon color, some greenish, crystaline; some of a spotted white and black, and in most the material arranged in layers. If quarries are near the rock is not at all of the same nature as the large, hard, rounded stones already referred to, and which for convenience we call foreign boulders. These, in a subsequent part of our paper, we shall show have been brought here in ages long receded into the past, and now bil roadsides and in our fence corners silent mond ments of the thil in of
the so called lare,
nature occur, but they are precisely the same as
the rocks of the quarries, if such are in the the rocks These not so much rounded we shall call local boulders, for they have not been transported so far.
3. Scattered throughont the loose earth we observe the remains of decomposed plants that have flourished from time to time upon the soil in which they are now found. These form the so called humus of the soil.
4. Our ideal section will also show ground-up rock, or what is usually called soil, for soil is really rock that has
5. Beneath all is a floor of solid rock

Thus we have in our ideal vertical section of Ontario soil these five constituents: Foreign soil, (ground-up rock), and a solid fioor of rock. From this it is readily seen that the composition of a soil depends largely upon the nature of the rocks below it, and upon those at a distance--in Ontario those lying to the north, because, as we shall see later on, material was transported from the north to the south during the "Ic Age." We shall now consider the nature the rock that of it.
II. The rocky floor of Ontario

1. A district embracing that portion of the province extending from near where the river St. Lawrence and Ottawa jorck in and north to the Ottawa. to the Cambrian system. lined by rock belonging that geologists have for We mon a the layers of which the carth's crust is composed into sixteen systems, some named after places, and others from the nature of the rocks in them. These sixteen systems follow in regular order, $1,2,3,4$, etc. The Cambrian is No. 3, and contains a good deal of sandstone
2. This area extends from Brockville to Kings ton, and continues in a north-westerly direction beyond the limits of the province, widening as it passes north. This is the Laurentian syytem (No. 1), and is the great mineral without a covering of soil, yet this district possesses ro:ks which disintegrated supply some
we find great quantities of Feldspar, which, through the action of the weather, breaks up and sapplies clay, sand and potash to the soil. Apatite, the phosphate of lime, becomes a depos of phosphoric acid. Iron beds and other deposits in the area afford useful elements. Thus, in this apparently barren area, we have rocks which in time, disintegrate and yield valuable constituents to the soil, such as phos
iron, sulphar, clay and sand.
ron, sulphur, clay and sand.
3. The area frow Kingston to a little west o Toronto, Cambro-Silurian, (No. 4,, contains vast beds of limestone,
important constituent.
4. A district from west of Toronto to Baden, a station on the G. T. R., consists of Silurian (No. 5), rocks largely made up of magnesian limestone (Dolomite), and supplies lime and magnesia.
5. From Baden to the western boundary of the province we have the Devonian system (No. 6), largely made up of limestone and clay deposits Thns, we have six systems represeated in our province: 1 , Laurentian ; 2, Huronian, (aroun the upper lakes, and man Collorian ; 5 Silorian ; , Desonian. The geological record Silurian, , Dlosed at No. 6 , as far as Ontario was concerned, antil it reopened with large additions of 15 (Pleistocene) and 16 (Recent). It is re markable that as far as deposits are concerne we received none from the 6th to the 15th system, but were at a geological standstill. Oher places received great additions, such
the coal beds, chalk, and other deposits o immense thickness, while our province received
none. As nearly all rocks are found under immense thickess, whl rocks are found under
none. nearly all
water, it is likely our country was high and dry, water, it is likely our country was high and dry,
and thus beyond the influence of the sea, while and thus beyond the influence of the sea, whie
others were receiving large additions to their deposits.

## to be continced.]

## Thoroughness.

The too general complaint that farming is not paying is not confined to Canada or the United tates, but in Great Britain it has become an been very fact that the profits of the farm or the Canadian farmer is decidedly different from the latter. What about prices? It is true that wheat has been for several years cheaper than it pays to produce it, except where heavy yields are obtained, or where cheap lands are employed for its production. In almost every other fan product prices are higher hestest. Farmers were then not only adding fast fastest. Farmers the increase of the value of their land, but they were also saving money by sdding to their bank accounts, as weil as by increasing the value of farm stock. Doubtless the falling away of farm values has come about through lessened receipts. Prices in a few lines of farm products certainly declined for a few years from the higher current prices of excep tional years. But to day no one can attribut dulness of trade to low prices of farm produce in comparison with what the farmer buys, for
never were the bulk of articles of prime necessity as cheap as they are now. Certainly they ar when farmers were most prosperous. Again money is cheaper perhaps than we ever knew it, and that because there is no great encourage. ment for investment in any line of business ment for investment in a a also no great dispos
tion to invest in farm lands because of the declin that has taken place, and the consequent fear of a further lowering of value. when grain of any dealers inisin price a very small quantity of that article is offered, while directly the price that artce is onantities are rushed into the market. In the same way farm lands have been neglected, while there is a strong disposition to sell by those holding these, therefore the number of farms changing hands is small. How are farmers to help themselves and their business? We must endeavor to find the canse of the tronble, then to prescribe the remedy. Farming is said not to pay. Why? Are the farms less productive, or is a less average under crop, or are other departments neglected? We think the answer must be that there is a want of ore Farms are the manner the work is Farmers are frequently growing up with with implements that might be heavily stocked which are not cared for and are, done without, whor-lived. Neither winter nor summeref feed for cattle has received sufficient attention, therefore the farm is not sufficiently tocked, and in consequence the stock is not well enough cared for, hence the returns from this department are small. The winter season $i_{s}$ spent in comparative idleness, therefore six months' work has to provide for a year' wants. Lzbor is too dear and too unsatisfactory so it is done without. The laboring man canno earn enough during the summer to koop the family summer and wiuler, which oblormen best men to leave the farm and seek employmen where they can work e yering on method by sity of every farmer entering on employed is what the country wants. In our climate there are months that ordinary farm work is either impossible or is so disagreeable that many shrink from attempting to do more than is absolutely necessary. The short days of winter go by, no one knows how, and work that could be done, and materially help the busy days of summer is neglected. When seed time and the general rush of spring and summer work comes such neglected work must again. be left or less crop cultivated, and less profits be the result of the year's work. Thus dilatory ha and happy-go-easy methods began the apt to be carried through the blasing out of Again, for want of a syermed, but the result work not only is nothing like what might be obtained if better laid plans were adopted. The busy season is well nigh over; let each one now see to it that a better system be followed, and better plans arranged for another year's work. Want of time is the excuse pleaded for a weedy field, or a crop not early enough cut or housed, by which half the yield and all the profits are lost. Contrast this with the well-arranged farm where the work is done in time, the weeds are kept down while they are yet young and tender, and, therefore, easily destroyed. A held cultit will require if left too long. The hav, the traw, the roots should all be made the most of. More and better stock can thus be kept, which brings better prices; work is done systematically, a regular routine of crops can be arranged,
and each field therefore, has its crop laid out for several years in advance. In auch a case there
next.

Lessons from the Chicago Stock Yards. men who make.
"There are cattle feeders who have never lost a cent during the whole period of depression.
It takes common sense and practical business management as well as good breeding and good feeding to make beef raising pay. men who lose
"The difference between prices for scrubs and extra grades of cattle was never more marked
than it is at the present time. While the former are quoted as low as 75 cents to $\$ 1.00$ per 100 lbs $\$ 6.60$.
The general correctness of the foregoing quota tions was well illustrated in what was seen by a member of the Farmers advocate editorial staff on visiting the Chicago Union Live Stock yards in the latter part of October. To a Canadian, the quality of low grade cattle offered for sale was simply astonishing. It was not flesh, for with the exception of a merely low in able lots they were all that but it seemed tha the western farmers and ranch men were forced because of drought and the scarcity of money in some quarters and the approaching winter, to rush forward upon the market everything possible. That it would never pay to put good hay and grain into vast numbers of these animals was obvious from their appearance. They were not only scrubs in origin, but were rendered doubly so by lack of food and care in raising. Their evident destiny wae either the soap grease or fertilising tanks, or the tins of the great canning establishments. Ancient dairy cows were fulness as milk producers, and an army of fulness as milk producers, and an army of
dejected yearlings and two-year-olds whose dejected yearlings and two-year-olds whose
scrawny anatomies were barely held together by the ill-used hides that covered them. "Where can I find the best bunch of beeves in the yards to-day?" was asked of an attendant. "Well, I cannot tell you that," was the reply. "In fact," he said, "there is no best." In some of the better lots of steers there was an unovenness which revealed a serious lack of care in the matter of selection. Uniformity in size, weight, general appearance and ripeness are all points of more or less importance when it comes to
marketing. $\underset{\text { With ve }}{\text { marketing. }}$
With very many in the west dehorning has
found favor for the very reason (though perhaps a minor one) that it gives the herd a more uniform appearance, so characteristic of polled cattle. Probably one-third of the steers in the yards this day had been dehorned. There is something, too, in favor of uniformity of color, though the shrewd, experienced buyer of beeves is not easily deceived by these things. He is looking for the probable available carcass beneath the covering, whether it be red or roan, black or white. Every little point counts, however, and the prudent man will send his cattle forward so as to strike the prospective buyer favorably at the writer's visit was from so cents to $\$ 1.60$ for inferior cows and heifers up to $\$ 5.50$ for prime steers.
What lesson do the cattle pens teach the farmer and feeder of beef cattle? 1, Breed for beef; 2, select for beef; 3, secure uniformity ; 4, get the calf going and keep it going till ripe maturity
Quotations of sales might lead to the con-
clusion that only the big 1,560 and 1,600 pound capture the top prices. As a rule they do, but are thoroughly fattent size ; it is because they market. Shaller sized steers equally weli finished command high prices.
The offerings in sheep were liberal, and the infusion of black faced blood throughout the
Western States is showing very marked effects Western States is showing very marked effects The bulk of the hoga acre pard Berkshires, weighing from 175 lbs , to 250 lbs The average weight in 1890 was 234 lbs.
As compared with the cattle, the horses seen in the long row of stall stables were, as a class, far superior in general appearance. Really first class, stylish driving or saddle horses were decidedly difficult to find, but the stalls were full of the blocky, general purpose type.
The businoss done in.these yards is something

Ohorses.
Total valuation

- $\$ 331,344,998.00$

Up to date the largest number of cattle received
in one day was 27,000 , and in one week 96,000 in one day was 27,000 , and in one week 96,000 .
The trade in dressed beef appears to be largely ncreasing. The great slaughter and packing
establishments are $\&$ world of business in them. selves, thongh not the place for tourists with weak stomachs. At the time of our inspection
Armour's place was reported killing about 5,000 Armour's place was reported killing about 5,000
hogs, 3,000 cattle and 3,510 sheep per day. Swift was taking more cattle than Armour, allost as many hogs, and probably more sheep,';
Nelse Morris 2,000 cattle, 1,000 hogs and from
1 Nelse Morris 2,000 cattle, 1,000 hogs and from
1,000 to 2,000 sheep; and eight or ten other establishments smaller numbers.
The report from Germany
The report from Germany. that sides of
American inspected pork had been discovered at A merican inspected pork had been discovered at
Dusseldorf badly affected with trichinæ has caused considerable commotion, and will probably
stimulate the inspectors to greater vigilance in stimulate the inspectors to greater vigilance in
the midst of the vast and rapid operations of the the midst of th
packing houses.

## Railways and Farm Produce.

No part of the community is so dependent upon the rail ways of thr country as the farmers, for while all to a certain extent depend upon the rates charged for carriage of imported articles consumed, the farmer, as the prodacer of the majority of the exports (these being of a bulky
character), is most interested, as the cost of carriage is deducted from the price received from his products. The absnrdly exorbitant rates charged for local over through freight is a matter of every day experience, one instance of which is sufficient to exemplify the situation. The writer was interested in two cars of imported stock recently shipped from Boston, Mass, to London, Ont. These came ria Montreal, and yet the charge was less by the sum of seventeen dollars per car than the cars had been shipped from It it is well known that non.com petitive railway branch lines, which received assistance in building through bonuses from muincipalities, charge such excessive rates that much of the merchandise is now of ten mase cheaply hauled by teams, thus showing the short-sighted policy pursued by the railway cor porations. Ontario has borne the heat and burden of the day in subsidizing railways from which she has received no adequate benefit. Vast sums of her money have been expended in building railway lines that have gone to build
up other countries, which not only has been
brought into competition in the line of agricul tural production, but those lands have been enhanced in value at the expense of eastern farms. All farmers and dealers in farm products are aware how entirely they are at the mercy of the two corporations that hold the reins tha govern our whole commercial economy, and we mistake the attitude of our people if they con have been subjected. The price wharged carryiug pure bred stock in less than carload lots is absurdly high. This is subjec farmers' institutes, granges and other farmers societies should discuss. The following article which recently appeared in the Oshawa Vindi cator, is so much to the point that we reproduc it in our columns, and commend it to the care ful consideration of farmers everywhere. It entitled "The People and the Railways "Two incidents which occurred recentlv should
attract the ettention of the people of Candod. The
first is the evidence taken at the North Perth elec-


 inerest.
Thene second incident was the speech of Sir
Henter, President of the Grand Trunt Henry yler, President of the Grand Trunk Rali-
way Company, at the annual meeting of the Com-
pany in
 mination to maintain ratest he said the Qrand
Trank would have to meet he orempetitlou oo
United States rail waysond the water route. but
it would take all it could get out of the people of
it Canada.' The Grand that means, the simplest can understand
 considered. There is an thereare two things to be
business. which lookg troad method of doing
 , inder some ongition t.
tunate thing for this country
Railway $C$ company




Stack.

## Studs, Herds and Flocks

 brook hill stock farm.This excellent stook farm, owned by James Stephen, is siuated in the fortie St. Lawrence Valloy, at hriving village of H Champlain Junction and St. Lawrence \& Adirondack railways. It com prises 180 acres of fertile loam and clay soil in a high state of cultivation. $A$ fine brick house serves as a residence. The outbuildings were once models of their kind, but are not so convenient and roomy as those more lately built ; but the proprietor intends soon to remodel them and make them more in keeping with modern times. Here we found a large silo with a capacity of 100 tons. It was just used last season. Mr. Stephen and his sons are highly pleased with the results. In summer the stock is watered from a spring brook which flows through the pasture-in winter from an artesian well convenient to the stable. A prominent feature on the farm is the excellent herd of Ayrshires which numbers 42 head. Besides these
there are a number of Shorthorn and Holstein grades. Among the Ayrshires are many superior animals. Nettie 2nd 4747, with a milk record of 50 pounds per day; Heather Queen 4446 Flora 4450 ; Fedora 5532 , a three-year-did and a model of perfection, promise to a heavy miker os pol as a tham Princess Louise 2912 kept until she was fourteen years old. She stood high in Montreal as a three-year-old ; in Malone and Huntingdon she was many times first. Daisy 2nd 2915, she was many times first. Doisy 2nd 2915 , stood first wherever shown. Golden Guinea 4454, owned by Mr. Robert Robertson, Howick, 4454, owned by Mr. Robert Robertson, Howick,
Que., has taken first every time shown but twice, and has also won many diplomas in Montreal, Sherbrookt, Ottawa, St. Johns, St. Martine and Huntingaon. Allan Gordon 5211, g. sire Rob Roy of Park Hill 3970, a young bull of much promise, now heads the herd. Billy Boy, eight months old, will make a model dairy bull. The dairy is under the management of Mrs. Stephen and her two daughters, who make an Al article of butter. It is put up in 5 and 30 -pound packages, and finds a ready market in the city o Montreal, where it is shipped weekly. The proprietor has been breeding Ayrshires for over 20 years from such herds as T. Irving, J. L. Gibb and others. Owing to failing health the man agement is now largely in the hands of the two sons who will leave no stone unturned to koep ap and stil raise Them the Wm . Goodger \& Son, Woodstock, Ont.
Mr. Stephen and family are always pleased to nswer correspondence, show their stock, or explain their methods to visitors.
manitoba studs, herds and flocks.
Many eastern Canadians have got the impression, probably from current newspaper reports, that as far as Canada is concerned the buffalo is an extinct in Nach is not the case, as most dwellers is the herd of nine to West know, there is the herd of nine to creat forest of poplars), the socace farm of

Sir Donald A. Smith, near Winnipeg. The herd is increasing slowly in numbers. In addition to a number of Herefords and Shropshire sheep, another special feature on this farm was a bunch of Highland cattle, apparently more sullen and aggressive in disposition tha their neighbors, the buffaloes.
A visit to "Kingswood Farm," the property of Greig Bros., Otterburne, Man., could not well prove other than interesting and instructive to any one desirous of observing the intelligent prosecution of farming, with catte rearing breeding purposes as \& specialty. On the day or the wrirs call gaged in the district who through ill-health farmer of diser who and other circumstances was unfortunately of the Greig farm, which covers 1,400 acres, is devoted to pasturing, but that under crop is well handled, the aim of the owner being to secure equal crop results, or greater in quantity and quality from a lesser area of land. In a word their idea seems to be concentration of effort. Work that should be done in the fall is not deferred till spring. Procrastination on any farm results in a blockade of work, sooner or later, with consequent loss. In order to greater speed in haying during the past season Greig Bros. introduced a hay-loader, and were more than pleased with the result. From personal experience the writer regards this implement as simply indispensable where large quantities of hay are to be handled, and the saving of labor and time is desired, as it ought to be on every farm. With a properly arranged horse hay fork for unloading, the haying equip nent on this farm would be very complete. A arge number of compactly built grain stack Thongh not then threshed a great deal crops, heat was evid tly superio in quality the note this oinglar fact which is worthy of ideration, viz, that the wheat grown on lower-lying and slightly clayey areas ripene nearly a week earlier than elsewhere on the form. fifteen acres of the two-rowed Carter's Priz Prolifić barley were grown, and gives promise of a great yield, but was much longer in ripenin than the six-rowed sort. The kernels indicated a touch of frost. Greig Bros. have now a her of some 60 cattle, about 45 of which are pure bred Shorthorns, all in thrifty, vigorous condition, as might be looked for on their fine grazing lands. The writer was impressed with the excellence of the young stock seen, many of the heifers being particularly good. Their chief stock bull, the well-known Duke of Lyndale $=13660=$, carries himself with great grace, but might with advantage to his appearance, an without any detriment, bear a trifle more flesh, He would quickly respond to feed. His calves are coming on finely. It has been very satisfactory to Greig Bros. to find their old customers returning for breeding stock, and the growth of their herd, wition to siders who have had stock before

Mr. Davidson, a valued reader of the Farmer's Advocate, at Manitou, Man., called at our office recently. He is devoting attention with ing, and is fully alive to the necessity of testing the capacity of his cows in the latter direction.

## English Pig Notes.

I am afraid that the current year will not leave many pleasant memories to most of the breeders and feeders of pigs in the British Isles. It opened with more than an average number of pigs in England particularly, and amongst them a large number of over-sized fat ones kept on hand in the vain hope of making a higher price than was ruling in the autumn of 1890. Then, to make matters worse the imports of maize were so light that all kinds of feeding stuffis rapidly advanced in price, and a general rush ensued amongst holers or fat pions natural resulc followed, the price of pork dropped to the lowest experiencod or alash yors, of sows in the prime of life, and of the in pig were forced into falling and overstocked pig, were orced markets. This slanghter of sows has well nigh ceased, but stores and little pigs are being sacrificed by their owners rather than run the risk of repeating the experiences of last spring. I am credibly informed that well-grown and healthy pigs, eight to ten weeks old, are being sold at the auction marts for from 2s. to 6 s . each, and as these are mainly bought by carcass butchers for town trade, it needs but little foresight to be able to foretell the future as to the English pig trade. It is generally thought that before 1892 has become a thing of the past, we shall see store pigs as clear as they have ever been, when every one will be just as anxious to keep pigs as they have lately been to get rid of them at any price. This serious decrease in the pig breeding industry is by no means confined to the breeders of common pigs, as several of the dd exhibitors and owners of pure-bred pigs have sold off their herds. Last autumn Mr. C. E. Duckering called a sale for the disposal of his herd, as all his other business was said to fully occupy his time, but the attendance was very mall and not many lots changed hands, and these mainly at very low prices. Then last spring Mr. Y. A. W. Jonos, of Molington, offered about eighty breeding pigs, but the result was vich it ans bout to give up pig breeding and the entire herd was eventually advertised for bolute This took place about a fortnight since, bnt no account of the prices made has been civen in the stock papers, but I am told that the avera a wretched one. Mr. John Barron who had a small herd also decided to clear out, and his auction sale took place the day after that of Mr. Jones, with the same, if not worse results. Mr. Streckland also offered at anction the main portion of his herd of Yorkshire and Berkshire pigs, but here, again, there was a want of customers. Earl of Ell Tuesday last the entire hord of the Yorkshires-was disposed of at Bingley Hall by Messrs. Lythall \& Co. At this sale the prices realized were not so ruinously low, as the pigs. were in fresh condition, and Birmingham is a good centre for fat pigs. There is, therefore, a clearance amongst pig breeders generally. The result will be an advantage to those who remain and have found it profitable.

Old Pig Keeper.
The wise farmer will run his work, not let the work run him. By intelligent platning,
industry and energy, he will keep ahead of farm industry and energy, he will keep ahead of farm
operations as a directing force rather than a operatio
drudge.

A Famous Jersey Bull. The bull shown in the accompanying illustra tion is Carlo of Glen Daart (13037), now at th head of the well-known herd of Jerseys owned by Mr. A. C. Burgess, of Carleton Place, Ont. Carlo is a beautiful dark fawn in color, without any markings, and containing, as he does in his veins, some of the very bluest of Jersey blood. He shows all over, from his muzzle to his switch, the marks of a very Jersey aristocrat. Bred by Mr. A. Maclean, Howard, whose herd we need hardly say has sent out more than one prize winner, he is sired by Actor of Hillharst, bull imported direct by Senator Cochrane Owing to the fact that Mr. Bargess's time is very fully occupied, Carlo has only so far been exhibited twice, bat on both these occasions he proved his right to claim the title of one of the

The Stock Show.
A meeting of the Stock Show Committee of the Agricultural and Arts Association was held in Agricultural Hall, November 1st., 1891, when C. M. Simmons, Ivan ; J. C. Snell, Edm, Ida A. Rswlings, Forest J. Legge, Gananoqua ; N A wrey, M. P. P., Binbrook : Henry Wade Awrey, M. P. P., Binbrook; Henry Wade,
Toronto. A delegation from the Dominion Live Stock Association waited on the meeting to assist in getting up a spring show, consisting of assist in getting up a spring show, consisting of
John Dunn, William Crawford, A. Eakens, John Flanaghan, ex-Ald. Frankland. Mr Frankland explained that Mr. Grand would allow his stables to be used free of charge for a Christmas show ; also that the Mutual Street Rink can be purchased for a moderate sum,
which would give plenty of room. The other

Apricelture Arte A mili holding a fat stonsociation to assist them December. It mes mb Mr soconded by Mr Snell, that after Awroy an with a delegation from the Dominion Live Stock Association, this committee is of the opinio that the generons offer of Mr. Grand, offoring th use of his buildings, comess so late in the seaso as to preclude the possibility of holding a fat stock show in Toronto this season, and in view of the lack of suitable buildings for holding general stock show in the spring, be it resolve that joint action be taken with the Fat Stock Club, of Gualph, in holding an exhibition that city, and further, that, in the opinion of this committee, co-operation be asked from th Dominion Live Stock Association in arrangin for a general stock show in the spring of $\mathbf{1 8 9 2}$.

the jersey bull, "carlo of glen duart" (13037), property of mb. a. c. burgess, carleton place, ont.
very best Jersey bulls in Canada by beating in $\mid$ gentlemen of the deputation, except Mr. Dann, the show ring the representatives of Canada's expressed themselves in favor of a mixed horse choicest herds in 1889. He won the diploma and cattle show in March,
for the best Jersey bull at Ottawa in a strong class, and this year he met in the same show ring the hitherto invincible Massena's son. Seldom have two grander specimens of the breed stood side by side in Ontario, and the beceder was anxiously awaited by American fanciers present, Massena's son having so far swept all before him. Here, hower, ho wa doomed to suffer defeat, the red ticket being doomed to suffer defeat, the red ticket being
awarded to Carlo. Mr. Burgess has a number of choice young things in his herd sired by Carlo. His card will be found in our advertising columns, and a sketch of his herd will appear in a later number.
and cattle show in March.
It was moved by Mr. Legge and seconded by Mr. Simmons, that after listening to Mr. Frankland's remarks in reference to the purchase of a suitable building by the province and city for
the purpose of holding stock shows, and having the purpose of holding stock shows, and having be it therefore hall wed larmers might meet, bard be tendered to Mr. Frankland for his in erest in all things pertaining to or coltonal terests, and to express the opinion that the suggestions are worthy of consideration by both the provincial and city authorities.
to be held in aurlph.
A communication from the secretary of the A communication from the secretary of the

It was decided that orm not to exceed $\$ 300$ be granted to hold a fat stock show in Guolph, subject to the same conditions as in 1890, and that Messrs. Simmons, Rawlings and Wade be a committee to visit Guelph and arrange prize list. kingston wants the show.
The following resolution was read from the City Counci, Kingston: On motion of Ald. that the Council of the corporation of this city invite the Agriculture corporation of this city Ontario and the Breeders Asecis Association of to hold their exhibition at Kingston in 1892" to hold their exhibition at Kingston in 1892."
This was supplemented by an offer from the This was supplemented by an offer from the
Midland Central Fair Association of their Midland Central Fair Association of their
grounds and buildings for said show, and from grounds and buildings for said show, and from
the Frontenac Agricultural Society offering all
assistance in their power to make the exhibition
asccess, as it was necossary to have a collection of success, as it was necressary to for the purpose of choosing stock for the World's Fair at Chicago he following year.
It was moved by Mr. Legge and seconded by resolutions this committee records its pleasure in receiving same, and recommends that the
city of Kingston lay before the council of the city of hingston lay before the conncil of the meeting assurance that in case their proposition be accepted all necessary buildings and accommo-
dation for the holding of such show will be provided.
fat stock club-arranging for the show at gebliph- The election of officers. A meeting of the Guel ph Fold held November 9it, to complete arrangements and 10th. There was present a deputation from the Cits Council to co-operate with the Club;
also a deputation from the Agriculture and also a deputation from the Agriculture and
Arts Association, who offered $\$ 300$ on the same basis as last year, the Fat Srock Club to add $\$ 200$, making a prize list of $\$ 500$, with medals and specials cowing were then elected officers of the joint boards of the Club and the Association for carrying out the show:-President, C.ぃM. Simmons ; Vice- President. Jas. Millar; Socretary
H. Wade; Treasurer, J. McCorkindale; General H. Wade; Treasurer, Hert Wright. Directors The Directors of the Fat Stock Stock Club, the Mayor, Ald. Hower and Reed, and Messrs Simmons, Lobo; Rawings, Forest; Snell, President of the Association, Ida; H. Wade, Seere tary of the Association, Toronto; and Legge Shaw were appointed to select the judges. The following Committee of Management were also appointed :-Cattle, J. Taylor, Whitelaw, West,
Rawlings, Awrey, Snell ; Sheep, Waters, Hales Rawlinge, Awrey, Snell; Sheep, Waters, Hales,
Buchanan, Elliott, President Mills, O. A. C. Buchanan, Earber, G. Taylor, Irving, McCrae
Hogaltry, Anderson, Laing. Poultry, Anderson, Laing.

Spay the Sows.
whuman davies \& co.
By your courtesy we have said so much to
farmers on the breed of hogs desired, on the time to market, etc., that it is somewhat difficult to
find anything new on the subject ; but with your permission we now wish to bring to the attention pe hog raisers a very important omission which
is workiug greatly against the interests of farmers and pork packers, i. e., allowing the sows to grow up and be fattened without spaying them. In the first place it requires a much larger amount of feed to fatten them in this condition
than it otherwise would. On this point w quote the words of a large hog feeder who said to us this week "that the sows when in heat
ran the flesh off their bones almost as fast as he ran the flesh off their bones almost as fast as h
could put it on with feed." Every intelligent could put it on with eed. Aves to the truth o what we say. and now for the point that affect whe pork packer very serionsly.
It is almost impossible to cure the flesh of state, and the loss to curers from this cause serious. We have found by bitter experience that for one carcass of American that we have
failed to cure we will have ihirty Canadians, and failed examining the sides thus defeetive we find that they are all sows. Having witnessed such an
improvement in the breed of hogs and in the improvement in the breed of hogs and in the
fattening of them, and the increase in numbers fattening of them, and the increase in numbers
withiu the last few years, which we attribute largely to the prominence given to our letters
and others on hog raising, we are very hopeful and others on hog raising, we are very hopeful
that this appeal to the farmers will have a good that this appeal to the farmers will have a good
effect. In all prot ability next season the pork packers will take concerted action in this matter
and refuse to buy them when not spayed except and refuse to buy them when not spayed except
at considerable reduction. This is the rule in at consiterable reduction, it is a practice which
England and Ireland, and is quite as beneficial to the feeders as to the
curers. We buy thousands of hogs in the curers. We buy thousands of hogs in the
Western States, and it is an exception to meet With what we call an "o open sow". We would ask yout to co-operate with us to bring
universal practice we so much desire.

The American trotter has numberless friends, and a goodly share of exceedingly well edited jeurnals devoting their entire attention to this parti Hor eeks not only to disparage other breeds, but takes pleasure in a little dirt throwing at the expense of those who have chosen to breed Hackners in America. In an article lately pubtished in the above paper the Hackney is described as "nothing but a mongrel," while those Americans who were among the first to bring the breed prominently into repute, are described as Anglomaniacs. Mr. John Logan, jun., of New York, well known as an admirer and supporter of the breed, has come to the rescue in an article published in the English Live Stock Journal, in which he displays an intimate knowledge of the history of this now popular sort. The article follows:-
"The Hackney has been bred for generation after generation by the farmers in Norfolk and Yorkshire. I came across several instances where the blood of a particular family had been on the same farm for over 150 years. There is a record of the foaling of Scot Shales 692 (by Old Shales 699) in 1762 ; Old Shales himself was foaled in 1755, showing that even then the breed was thought sufficiently of to attempt to keep a record, and endeavor to keep it pure. Of this Lawrence speaks in his treatise pabished in 1796: 'No importation of sadule horses ha The original breed of English horses has long ince been entirely extinguished by that general mprovement which has pervaded every quarter of the country. A curious observer may, never heless, form a very good estimate of its figure and merits by examining our common road hacks, which show little or no mixture of foreign blood (Vol. I., p. 92.3). It must be remembered that antil the present century the Hackney was used as a saddle horse of great endurance and weight carrying ability. In the Cambridge Journal of July 4th, 1752, is offered for sale at Holbeach a chesnut stallion got by 'Mr. Garthside's famous popularnought.' Fearnought was evidently a popular sire of that day, as Wallett's famous tised as a son of Fearnought.
"I trust the above is sufficient to prove the antiquity of the Hackney, of which your intelligent contributor says: ' $A$ bout all that has been necessary to create a breed of horses on the other side of the water was for some American to go there and buy a few horses of certain type, when instantly there would be a stud book started, horses of that certain type would be registered, numbered, and shipped to us as a distinct breed, and capsble of reproducing themselves on 'heir offspring,' etc., etc. Further, he says: 'But of all the horses on earth it the Hackne ticular use for whatevr, 'A Alomis,' went to few years ago a certain Anglomanic went of this Hackey type. Then another 'Anglo maniac,' and, by the way, a relative of the Van derbilts, and quite wealthy, brought over some of them. Instantly there was a stud book started in England, and two or three of them in this country, and the Hackney went into th booming business in great shape.
" Now, our friend seems to be troubled with
Anglophobia, and I have a sweet little morsel
for him. The Hackney never having had any other gait than the trot for centuries, he produced nothing but animals that would go at the trotting gait, and from his loins sprang the American trotter. I grant we have improved upon the foundation stock in one respect, but in one alone-that is speed, but wo have foolishly sacrificed everything else to this end. This greed han, whe goll breed he is so wor pror thamer ant to 'trotter' might not believe them to stik to ther owis very existence to the despised Hackney, So I take the liberty of quoting further from Mr. Henry F. Euren's notes (to whom I am indebted for my references): 'In his history, Lawrence says Sampson was a black horse, was the strongest horse that ever raced before or since his time, and entitled to preeminence if viewed as a Hackney or hunter. Sampson was $15 \frac{1}{2}$ hands in height, and his admeasurement in the legs as taken by the pro prietor, the Marquis of Rockingham, was as follows: Dimensions of the foreleg from the hai of the foot to the midale of the fetlock joint, nches; from the fetlock joint to the bend of the knee, 11 inches ; from the bend of the knee to the elbow, 19 inches; round his leg below the knee, narrowest part, $8 \frac{1}{2}$ inches ; around the hind leg, narrowest part, 9 inches. Would you take this to be the measurement of a thoroughbred or even a trotter of to-day? In the Sport ing Magazine of January, 1821, is to be found a portrait, by Stabbs, and a notice of Mambrino, grandson of Sampson, and sire thessenge mported into the Unted Statos's sear His great grandson on the sire's side was ramons trotting sire R' Norfolk Hacney, imported into the United States by James Booth, of Boston, July 11th, 1822. Bellfounder (Jary's) was by Stevens' Bellfounder by Pretender (Wroot's), dam by Chadd's Smuggler by Soot Shales; Wroot's Pretender by Fireaway (Jenkinson's), dam by Joseph Andrews, he by Roundhead; Jenkinson's Fireaway by Driver by Old Shales-pare Hackney blood all the way through. In the notice above we read : ' He (Mambrino) was bred by John Atkinson, Esq., of Scoles, near Leeds, Yorkshire, and foaled in 1768, and was got by Engineer, son of Sampson by Blaze. After the decease of Mr. Atkinson, he became the property of the late Earl Grosvenor. Mambrino shows to have been a horse of great substance, and of a fine and military figure. He went in a remarkably good trotting form, and we have heard it averred that he could have trotted fourteen miles in one hour no common qualification for a racer. Lord Grosvent ie thing a significat the the him. It is certainly a signifcant fact that the portrait of the painting by Stubs, bears a remarkable like ness to Bond's Norfolk Phenomenon, engraved ness to Bond's Norfolk Phenomenon, engraved
from a painting by Folkards.' I might add from a painting by Foikards. I might add
that Sampson was sired by Blaze, the sire of the original Shales referred to above. neys being imported into this country twenty five or thirty years ago, and undoubtedly credited by Mr. Wallace and others as thoroughbreds,
because they were imported and appeared fre because they were imported and appeared fre
quently in trotting pedigrees. The Morgan blood is almost pure Hackney, other strains show more than half, and yet we are told by this in but has been gotten up to sell to a few 'Anglo

December, 1891
THE FARMER'S ADVOCATE.

Chatty Letter from the States. Chatty Letter from the states.
Latest prices for best grades of live stock : Cattie, $\$ 6$, against $\$ 5.35$ a year ago ; hogs, Cattle, $\$ 6$, against $\$ 3.15$, against $\$ 3.95$ a year ago ; sheep, $\$ 5.25$, against $\$ 5.35$ at the corresponding time last against $\$ 5.35$ at the corresponang coming to
year. The number of unfed cattle comin year. The numbering to the trade. Texas is
market is demoralizing furnishing a great many hungry cattle, including calves, yearlings and cows, on account of ing calves, Whisconsin stockmen are in hard
short feed. Wis luck so far as feed is concerned. They are sid of not only corn but " roughness" as well.
Wheat screenings are selling at $\$ 10.50$, against $\$ 15$ a year ago. The reason of that is that there is more screenings, and as yet not so many sheep
going on that kind of feed.
There is an absurdly strong demand in the country for good stock sheep, but such
sell very poorly at the great markets.
The average weight of cattle received in Chi-
The average weight of cattle recived
cago last month was only 950 pounds, being the lightest on record, and demonstrating more forcibly than words the large proportion on writ-
mature animals "The great number of mongrel er forcibly says, the earth is a disgrace to the cattle infesting the earth

business of live stock husbandry." Years ago, when the Colorado, Wyoming and Montana ranchmen formed associations for mutual pro tection and improvement, one of their rules was that a Texas or Mexican bull should be thrown and castrated whenever and wherever the cowboys found him. The object of this was, of course, to prevent such animals from stamping their impress on the future glowth of herds. $r$ similar rule would be a good one to put in force against common grade bulls, and should also extend to the "pedigreed scrubs" that are too | plentiful. |
| :--- |
| The American Fat Stock Show was so hastily | gotten up this vear that the deparments wore

not all full. For instance, there were no Angus not Galloway cattle, and none of the milk breeds. It was a battle of the Shorthorns and Herefords. The white faces, and the reds and roans practic
ally had control. The clap-trap features of dog ally had contro. The clap trap ere on hand and
and pony races and trick dogs wing the people who served their purpose of drawing the people who
wished more to be entertained than instructed. wished more to be entertained than instructed.
The rule of the Fat Stock Show people in shut. The rule of the Fat Stock show people have been ing out three-year - deemed very rank heresy Jno. D. Gillett's time.
©ur Scottish Letter.
The month of October is not usually a very active one in Clydesdale circles, and but for the recurrence of two or three shows The first of these almost no news to was held on the second of the montw. In recent Stewart. This years great efforts have been made to part of Wig. the breed of and several of our best horses have townshire, and seve Top Gallant 1550 travelled been located it. interesting to notice that the
in 1885 , and it is in 1885, and things at this season's show were got best young ins. In 1887, 1888, 1889 and 1890,
by his sons. Flashwood 3604 was the choice of the District Society, and this fact alone is a strong tribute to his worth. I do not know of any other case, except that of his own brother Macgregor 1487, in which one horse was chosen for four seasons in succession to travel in 1891 by the famous Or-
wood was succeeded in lando, a horse of outstanding excellence, by Mr. James Johnston, Lochburnie. The the
recent show was Alice of Kirkmabrick, a daughter of Darnley that had not before been exhibited. She is a superior animal, and was awarded the female championship. Price ty got by Prince well furnished two-year-old colt, got birst in his of Wales, out of a Darnley mare,
and Campbell, Class. He is Stranear. The first prize two-yearald filly was got by Prince of Wales, and is wned by Messrs. Routledge Bros., Old Mill, Port William. She is a handsome mare, and was never before exhibited. The other leading xhibits are well known in the show yard. Lady Muriel, owned by Mr. Andrew Mitchell, Barcheskie, and got by Prince Lawrence, wa first in the yearling filly class, and Mr. Wallace Duke of Rothesay, by Gregor Macgregor, wa first in the corresponding class for William Hood's wel
first in the yeld class.
Dalbeattie Show was held on Tuesday, 6th October, but the weather fol whether the judges favorable that were able to simer of the first prize winners were A goodly number Messrs. Andrew and William Thed The former was first with his Montgo wo- year-old horse Prince Patrick, one of the most popular horses he has ever exhibited. Mr. William Montgomery was first with the two-year-old filly Matilda, like Prince Patrick, oot by Prince of Wales, and also with a splendia yearling colt got by Macgregor. The first year ng filly was also got by the same sire. She is owned by her breeder, Mr. Murray stown old Cally, and is a strong, big filly. In the orge classes Mr. William Hood, Chapelo ${ }^{2}$. and his brother, Mr. David A. Hood, Brgredar gained a considerable share ofbright, who is not James Picken, Torrs,
unknown in Canada, was also a successful prize winner.
Bute Autumn Show took place on 27 th Oct. There was a grand display of foals got by the beautiful horse Height on hors. In yearlings progeny gaineit a large turn out of the progeny of that grand horse Sirdar 4714. They are distinguished by many fine qualities, including first rate dark colors, good action, good tops, and wearing like bones. The first two-year-old filly was a strong, big mare, got by Jordanshaw, the second being a useful, well colored mare with beautiful hind legs, got by Sirdar. The firs two-year-old horse was a handsome whe Bute Scene Shifter, got by Top Gallant. The Bat in Farmers' Society has sustaing young horse Rosethe death of the promising yo for 1892. This mount, which they had Island by the Messrs. fine horse was bred Midascog. He was got by R. \& J. MsAlister, Midascog. He whe Rosebud, the dam of the world-famed Moss Rose. He the dam ond prizes this season at Glaggow in gained second prizes and at Kilmarnock; and he was first at the H. \& A. S. at Stirling. He was horse that improved very rapidly during the past season, and his death from inflammation of the bowels is a heavy loss to his owners. The Central Aberdeenshire Club have for several years taken a leading place amongs district societies in securing horses of the rate quality to travel in their district. This year they have not belied their reputation, as somat-
few weeks ago they engaged Mr. James Kilpat-
rick's grand young horse, The Royal Prince, wink's grand young horse, frize at Kilmarnock and Ayr, as their stud horse for 1892. The neighbor and close relative of this horse, William the Conqueror, winner of first prize at Maryhill in April last, has within the past few days been hired by the Dumbartonshire Horse Breeding Society. This horse is owned by Mr. James Johnston, and he and The Royal Prince were purchased when foals at phenomenally high prices from the breeder, Mr. John Harue, Thes are both got Mr. David Wilkie, Dollar. They are both got by Prince of Wales, and the Royal Prince. I is out of expect both of them to prove exception. hould serviceable horses at the stud.
The well-known Flashwood 3604, owned by Mr. John Pollock, has been hired for service of 60 mares in 1892 by a committee of gentlemen in Perthshire, amongst whom are col Stirling,
ing, of Kippendawie; Mr. Archibald Sir
Keir and Cawder ; Sir Robert Moncreiffe of Keir and Cawder; Sir Robert Moncreiffe,
Bart.; and Messrs. I. MacLachlan, factor for Bart.; and Messrs. I. MacLachlan, factor for
the Earl of Moray, and Charles Brown, factor or Lady Osborne Elphinston. His terms are £7 103. each mare at service, and foll, and his owner or each mare proving in foal, and mares. No
has the power to takse other 20 .
doubt these are high terms, but there is a gen doust these are high terms, but there is a ge
deral disposition to refard them as fairly reason eral disposition to red rd them as fairly reaso
able considering what a horse Flashwood is. The Gervani and Ballantrae Society, having -
and found no difficulty in booking the guarantoed fumber of 50 mares for Mr. Renwick's Prince
number
Aleander at $£ 10$ 10s. at service with $£ 10$ 10s. Alexander at f10 los. at service with foal, have additional whend horse in Mr. Peter Crawford's engagear old stallion Goldfinder, winner of first
five- year prize at the H. \& A. S., Stirling, and champion
the Royal Northern when a two-year-old. the Royal Northern whan good foals of this horse, and his cterma are high- $£ 4$ at service
hor 2 There have been several foal sales in October,
nd in spite of the slackened foreign demand and in spite of the slackened foreign demand
prices have been well sustained. At a sale of prices have been well sustained. At a sale of
surplus stock at Seaham Harbor four filly foals by Castlereagh made an average price of 69 gs . each, and at Lanark shortly after remunerative
prices were got for the ordinary produee of local prices
mares.
Those
mares.
Those who make a specialty in that way are
busy buying up foals. Most of the more extenbusy buying up foals. Most of the more exten-
sive owners of entire horses confine their attensive owners of entire horses conine their aten-

tion to buying the progeny of their own horses. The victory which counts for most in this way | is, of course, the first prize in a competition for |
| :--- | the best group of five got by one horse. Owners

of leading sires have a feeling that they can do nore justsce to the youngsters after their horses nemselves, and, hence, they are to be found couring the country about this season buying
what promises best amongst foals. Sometimes hat promises best amongst foals. So nares and in themselves particularly promising, and in not a few cases it is by far the most ad-
vantageous sale for a breeder when he parts with vantageous ale or a breeder when he parts riks,
his Clydesdes as foals. He gets rid of risks and often secures a higher price than would
got for the same animal a year or two later. Of got for the same animal year or two later. Foals
course sometimes the prices quoted for largely exist in the imagination of the paragraph-
ist, who is not always a person of much discrimiist, who is not al ways a person of ha
nation, and is frequently guiltess of any knownation, and is requently guiltioss of any know
ledge of the subject he writes about. The consequence is that the knowing ones don believe the reports, and the guile ess accaisly good
do. If the latter happen to own fall foals themselves they are prone to refuse reasonable offers, waiting for the fabulous figures reported as reached by others. The cond is done by these inflated paragraphs. After making all reasonable deductions on these gronnds, it yet
俍 remains true that except in rare cases earta with his surplus stock as foals. Scotland Yet.

## American Shropshire Registry

 Association.
## The eighth annual meeting of the above As

 sociation was held in the parlors of the Iro quois Hotel, Buffalo, Nov. 5th. The meeting from Canada and the U. S. AThere are now in the Association 737 members, of whom there are in Michigen 154 Cin mers Ohio 111, Indiana 71, New York 65 , Ilinois 50 Pennsylvania 36, Wisconsin 16, 17 , nesota 10, Vermont 9, West Virginia s, Dakota 7, Massachusetts 5, North Dakota Kansas 2, Maine, Nebraska, Rhode Islan New Haven, Kentucky, Colorado, Californis, New Jersey, Maryland, Connecticut, 1 each. Th Society accepted 11,515 pedigrees and rejected 8,400 during the year
The morning session was called to order by President Todd, of Wakeman, O. Mr. Mortimore Levering, of Indiana, acted as Secretary. The Hon. John Dryden, of Brooklin, Ont., was chosen President, to succeed Mr. Todd ; Prof W. C. Latta, who holds the Chair of Agricul ture in the Indiana Agricaltural College, was made Vice-President; Mr. Mortimer Levering, of Lafayette, Ind., was re elected Secretary, and the following were appointed members of the Executive Committee : Messrs. W. J. Garlock, herl, Mich.; Richard Gibson, Delaware, Ont.; H. H. Clough, Elyria, O.; John L. Thompson, President Dryden in D. Ward, South Byron. the chair rejoicen in assuming the duties of this Association all the lines in the affairs of and Canada are obliterated. dividing the States extol the Shropshire sheep, in which went on to faith, and spoke agaings aiming at he has great ing at the cost of quality and far Among the reports Secretary
that arrangements for a satisfactory repstated tion of the sheep-breeding interests at World's Fair are progressing.
1891:- -

## RECSIPTs. Ralance on hand Nov. 1 st, 1890 Total reeeipts for pedigtes

the year, for pedigrtes
Interest on balance 4 per cent
.ing $\$ 16281$
expenditures.
Printing Volume VXI
Salaries, 0 Officers, E
mittee (7) Secretary.
special premi
World
Postage used assessment
Ear labels. A suring the yea
Ear labels, Association year.
Stationers
Cash on hand . printing blanks...
 Number of accepted pedigrees received during

the yeat
umbers of circulars written and copied during
$2,0,30$
alue of volumes of records.
ing volume $\tau$ I record on hand,fincludStationery, stamps and furniture
Cash on hand.

At the afternoon session Milton Bros., of arshall, Mich., were by a unanimons vote expelled from membership on motion of Mr. eorge E. Breck, of Paw Paw, Mich., and on ham, of Yarges preferred by Mr. C. S. Bing. the effect that Johu Milton had at various times
and places since 1889 done things which should
disqualify him and also the firm of disqualify him and also the firm of which he is grees; selling as healthy, animals known to b diseased ; abusing and threatening known to be tock, etc. For this he had been judges of until the action of the annual meeting. The ac ansed were said to be absent in England, but had been notified of the charges and had made no It
Association from to increase the stock of the The Executive Coo to 1,200 shares. take what action it saw fit in instructed to striking out any useless ferbiag the matter of of pedigrees without sacrificing in the recor said there was a great deal of tarilo. It wa be avoided to save expense.
Mr. Breck moved to reduce the transfer fee from 25 to 15 cents. He also favored making the secretary's office a salaried one at $\$ 1,200$ to $\$ 1,500$ with such clerical help as he might need and so do away with fees, tag charges, etc.
Mr. F. D. Ward, of South Byron, led the op position to this, saying if a sheep wasn't worth 50 cents for registering it should be sent to the butcher.
The motion was lost.
The next subject discussed was the World's Fair requirement that every animal should be on the ground 60 days ahead of the exhibition, an that it must have been in the owner's possession twice that time. It was thought that exhibitors
should be allowed to case of accident or illnesss, and other stock in case of accident or illness, and 30 days should Dr. Smead, and Mr. J. Lay rule. Prof. Latta, pointed a committee to draft suitable were apexpressing the views of the Association resolutions also thought that the Chicago people had was a mistake in laying down a rule that "the date of shear must be not later than April 1, 1893." The word " later" was evidently intended for "earlier."
The name of Secretary Levering was suggested for presentation to the Chicago committee to act as superintendent of the sheep department. Mr. Levering didn't see how he could attend to it with his other duties, and some one else having proposed as an amendment the name of exPresident Todd, the amendment was carrid unanimously.
Mr. Todd moved that the Association offer no more money between now and the World's Fair to any exhibits save those of the American Fa Stock Association in Chicago, where alone, he maintained, any benefit from such premiums is observed. Some funny stories were told as to how poor sheep sometimes captured prizes at shows in Ohio and Indiana, which caused Dr. Smead of New York to exclaim : "Why, bless me, gentlemen, come down to our Sate Fair and well show you sheep that have wool on their backs. We have Shropshires down our way that Mre Tolling at
Mr. Todd-If you were breeding sheep for the make out of it? how much profit would you Dr. Smead
Dr. Smead is something of a wag and didn't mean to hurt anyone's feelings, so he hardly who told the story of $\$ 250$, while Mr. Thompson, at an outside show, said it was winning prizes bat Ohio,
Mr. F.

## Mr. F. D. Ward came to the rescue of $t$ th

istricts from the Atlantic to the Pacifio th contribute the income for these premiums, and motion to deprive the little shows of their prize money was lost
Afer a discussion of the subject of free en hought to bissued to members, which some thers approved, it unnecessary expense whil antil 7.30 o'clock in the evening
The major part of the eve given up to the presentation of several timely and interesting papers on subjects pertaining to W. Shropshire sheep-growing industry
W. C. Latta and John L. Thompson, the
committee appointed to draw up resolntions committee appointed to draw up resolutions ex pressing the views of the Association relative to Exposition live stexhibit at the World's Columbia adopted. They demand that the exhibit be imited to 30 days instead of 60 days posed ; that the day for the opening of the extime limit for entries be shortened to that the ays of the opening of the show to within own the stock at the time of entry shall be oemed sufficient for all requirements. The Worter's of Fair was diecussed briefly, and at the noticed that at none of the great world's it waspos tions had such a show been made a feature, and that for this reason the exhibit at Chicago ought
to be a large and creditable one The Association then conculud
The next annual meeting will be held in Chicago out November 15, 1892.

## The Ontario Provincial Fat Stock

 Show.The Agriculture and Arts Association of the province of Ontario, in conjunction with th and fair in Guelph on December 9th sho 1891. Each year-this exhibition has and 10th, importance. Much good stock is always grow in ited. The fair which follows the show is largely attended by buyers who comes from as largely as Montreal, Kingston, Ottawa and Toroato The west is also well cepresented by buyers. large number of good animals are each pear shown. Priees paid by buyers attending this annual exhibition are always good. We would advise the agricultural departments of the other provinces to take a leaf out of Ontario's book, and follow her example in establishing annual Christmas shows. To the fat stock should be added dairy goods and products, fatted and dressed poultry, etc., etc. Ontario's winter fat stock and spring shows have been of great Exit to farmers and breeders alike. At these Exhbicions buyers and sellers meet as they would not otherwise do. This is an incalculable though the farmers also who attend, even lessons, which, if them not only wiser into practice, will make thousands of our readers richer men. There are two or three of such fairs enthough there were province, could not fairs established in every such would be greatly ports of the proceedings. will say, "Yes; but these winter and empo shows can never be made to pay expenses."
'Tis true they Tis true they may not. Every thinking man societies, the live stock associations, the travel ling dairy, etc., etc., financially never travelwho is foolishes, but who who will dare to pay runwho is foolish enough to say-that any one of
these is not indirectly of great benefit to country generally, repaying a benefit to the
every cent which they are charged

Should a light snow fall while there is yet a good bite of grass the shoep will enjoy being out in the field during the day, and if it becoms deep a snow plough, which is quickly made, will so clear the ground that the sheep can get a bite, which with the exercise thas in obtained is of the greatestservacive as with other animals. First there should be a regular time for feeding, and the quantities should be duly measured out at the same hour each day. all ages some grain should be foc. Tak small older ewes in good half to one pint per quantity will sulfce, on where a mixture of day is ample, and for thest, say one pint of the peas and ats the latter. The shelter former and the is of an inexpensive kind ; required time airy dry sheds are except ater than warm, close buildings. A good much bonse is cheaply constructed by placing sheep hos in ground, and tying these across cedar post with sorming the walls about eight with high by boarding ap with common rough lumber; a light roof placed over is all that is lumber ; a The building shonld run up against
required. The a barn or other place for the storago convenien Abont twentr-six to thirt for a feeding rack
width which allows room width, which allows room this side doors gives
down the centre. This whe ample opportunity of forming the necessar divisions. The bnilding can
to suit the size of the flock.

Breeding with a Definite Object in View.
[Addresg delivered by Hon. John Dryden before,
the fall meeting of the Dominion Sheep Breeders
ddress delvered
thefollmeeting
Assoclation. 7
I did not come prepared this evening for a I did long speech, and if I had I certainly would very long speech, on you to-night. I must connot inlate you, however, on the splendid meeting you have here. I do not know to whom the you have due, but some one must have worked hard to secure so large an attendance with so much to attract attention outside in connection with this exhibition. I have noticed that your Secretary has been working incessantly ; doubt less the credit is due to him.
The more I travel over our province, the more decidedly am I of the opinion that a larg proportion of our territory is em on think that to the growth of sheep, and Mills reach at all the figures given by ought to have. (See to the number that we ougte, page 437). I November issue show conclusively that there think his is nothing more When one considers that a few sheep raising. Wised on a farm at very little exsheep may be raised on a der that our farmers do pense, it does sen a merlly into the business. not go more generaland told you something about the success of the shipment of lambs experimentally fed at the Ontario Agricultural College and Experimental Farm this year. (See next issue.) may say these lambs were a mongre otained in were an average lot such as might be ore sent to any part of the (I speak from memory) they
England, and (I netted between $\$ 9.50$ and $\$ 10$ when all expense were paid. They were of very gory good because in this country wo 1 always feel climate for producing qualy city to see in proud when visiting Now the words "Can-
dian mutton." Would it be placed there so conbetter quality than American mutton, and so better quainty that city? All this indicates to my mind that we have a goed country to grow my mind in.
There is one thing about which we ought, it seems to me, to be particularly careful. We have in this country, I believe, almost every known breed of sheep. What we need is fo farmers in each locality to single out the breed best suited to their section. I believe that particular breed may be better adaplod to or locality than another. I notice hat particular the farmers seem to sette ditrict In each district breed of sheep in each dise differently, and the they treat them so results reached are als in this country decide seems to me if we is best, and work on this for ourselves wha good thing. What pains me plan it would boting else as I go about is to find ore farmers generally adopting an exactly opposite course. They are crossing and recrossing until one does not know what they have got, nor do they know themselves. Have you not seen, as I have, a man start with a lot of Lsicesters-we will say he is perhaps induced to buy a Shropshire ram to cross with them, but he does not seem to have any definite idea of breeding Shropshires ! Presently he will try a Cotswold ; then he thinks he is getting them to coarse and procures a southdown. He fun wool is getting a little short, perhaps, an buys a Lincoln to even up in general. In a little while he will go to the she the Merino and try one or will have neither fish, herring. He has neither conceivable grade of of the mutton, but every conceivable grade both ; yet men go on mare than another $I$ would If there is one thing this idea: Let our farmers ike to impress, get some not to their respective locality, and stick to that breed whether it be Leicesters, Lincolns, Sonthdows, Shropshires or any other. You will then got a distinct typo, and if buyers of wool or mutton want that type they know where it is or mutton wa found.
to be found. I hope that we, as breeders of sheep, will not only be careful as regards the different breeds of sheep we represent, but that we will constantin
bear in mind that we are breeding (no matter bear in mind that we are breeding (no mallor
what breed) to the end that we may increase the what breexcellence, and raise higher the standard general average product. It is practical results
of our
we ought to aim at. The sheep are producers of we ought to aim at. The sheep are producors to
wool or mutton or both, and we must seek to wool or mutton or
obtain the very in these products possible. There is no better meat food for our people-
there is nothing healthier than roast lamb or there is nothing healthier than roast la mesily
mutton, and no domestic animal is more and mutton, and a sheep. When I go to the hotels
raised than of this city and ask for a piece of lambe-year-old do not get lamb at all, I got three-year-old
ewe, which never achieved sufficient size to be ewe, which never ach is, therefore, sold as a lamb.
sold as a sheep, and
I know it is not lamb for one can scarcely cut it I know it is not lamb for one can scarcoly cut it
with a knife, I mean to say that for our own with a knife, I mean to say that for our own
sakes we should insist that a better quality of makes we should should be placed upon the mar-
matton than this
ket. People are demanding it, and there are plenty matton than are demanding it, and there are plenty
ket. Poople and
willing to pay the highest price for the quality willing to pary the highest price or the qua best
they require. After all it is only the best quality that pays in any article you produce,
and the man who places the best quality on the and the man who places the best quality on the
market is always likely to succeed the best. market is always likely to congratulate the
Allow me, in conclusion, to cone
Association on the success of this conference. (Applause.)

## The STarm

## Weeds.

prof. J. hoyes panton, m. a., f. g. s.
agricultural college, gublph.
As the question of weeds is occupying a good deal of attention at present in various agricul tural papers and journals, the writer has consented to contribute a series of papers upon the subject, in which he purposes discussing the haracter of these botanical waifs, and the best methods to get rid of them. Hitherto farming requires has not received as much attention as on in rather a careless manner. Many of the early settlers wehe not farmers, but coming into the possession of a rich virgin soil, they were able to secure excellent results, notwithstanding their indifference to many principles which lie the foundation of a proper cultivation of the soil. But now much of the fertility of or it furn gone. It could not be otherwise, being made plant food without a return being made to supply the constant, drain market has become fickle Sorronnted by the conditions, the farmer of the past can mo hold his position in the atruggle for erister anless he resorts to other methods the thence, was wont to follow in the past action that he must follow is thorough coltiva tion, and that implies cleanliness in his fieldsin other words, he must keep his fields free from weeds. Some have been very kind to these botanical tramps; but of late years there are many who have started with earnestness to drive them from their farms. No one while eeding his cattle would quietly stand by and ee some from another herd step in and take what was intended for his own, and yet, this is jast what is occurring on fields where a crop is sown and weeds allowed to grow. The weeds re taking food from your wheat and other plants of economic value. They take up valuable space, become a nuisance, and lessen the food apply of other plants.
what is a weed?

A weed may be defined as a plant out of place or in other words, a plant growing where it then not if net in the proper place. The flowers we caltivate fields of But there are e. g., cockle, poppy, toadflax that they have been frequerly out of place weeds. It is to the consideration of thays a attention is more particularly directed.
increase of werds.

There is no doubt weeds are on the increase in Ontario, and this may be explained by the inweeds on the roadeide and to growth of of introducing new sed srain from ond now tricts. Within the past few wears other dis weeds have appeared, some of which have doubt been brought from places at a distance in new seed grain. This year the writer noticed new weed upon the College Farm. Itappeared in a plot which had been sown with seed from the Old Country. This weed (Centaurea nigra) is quite common in England, and has found its way here. The "French weed," "Penny is spreading during the past few years. Speci-
mens from various parts of the province have been
sent to to the same family the "mustard," and its advent should be carefully guarded against. In Ontario we have about 180 species of plants commonly known as weeds, and of these fully 100 have been introduced from Europe. Every year adds a few more foreigners, and if farmers
are not more vigilant in the selection of seed, we are not more vigilant in the selection of seed, we
shall soon find the number greatly increased.
ing power of weeds.
To ascertain the productive power of weeds, the seeds upon a single plant of different species have been counted with the following results Wild Carrot, 1,200; Dandelion, 1,500; Chick weed, 2,000; Cockle, 3,200 ; Campsion, 3,425 Chess, 3,500 ; Dock, 3,700; Ragweed, 4,372 Groundsel, 6,500 ; Ox-eye Daisy, 9,600 ; Mallow 16,500; Motherwort, 18,000; Foxtail, 19,500 Sowthistle, 19,000 ; Mustard, 31,000 ; Canadian Thistle, 42,000 ; Red Poppy, 50,000; Burdock, 400,328 ; Purslane, 500,000 ; Lamb's Quarters, 325,000.
When we consider the wonderful yield of seed in many weeds, and the vitality possessed by them (for some may be buried years and yet germinate as soon as they come near the surface), and also observe the peculiar mode by which many are distributed (see thistles, burrs, etc.), the wonder is that we are not overrun more than indifferent neighbors.

Poplars and Willows for Manitoba and the Northwest.
by john craig, central experimental arm, ottawa, ont
The value of shelter belts, garden and stock yard wind breaks is not sufficiently appreciated dhrough Manitoba and the Northwest. No range of adaptable varieties, harrowing the with the lack of interest and effort in many sec tions. Settlers often begin by planting the fine hard woods and evergreen varieties so well known less pretentions but mush Failure and discouragement follow the kinds to be succeeded by the "tree planting don" pay" motto, which is death to groves and shelte belts, and to many other arborial luxuries which might follow the advent of wind-breaks. The olden rule in this connection should read, "begin planting with native trees." If seed of ash and box elder (Manitoba maple), or elm can be obtained, gather and sow the first two when re in autumn in drills for horse or hand culti ation as desired, covering in windy sections to depth of two inches, having the soil well rmed. The seedlings are usually ready for ransplanting the following spring. When forestgrown seedlings are obtainable they should be grown in nursery rows for a year previous to permanent planting, to give them a better root ne metimes be the inen in May and ad should be sown immediately. They may be lrees not natives no class will vantage. Among ervice to the prairie regions than the European poplars and willows. They seem to be unitormly hardy though differing seem to rapidity of growth. Having passed the experimental stage their dissemination as rapidly
possible should be urged, not as a mer securing permanent shelter belts, but wins view to establishing quickly a great number nuclenses around which other and more enduring trees may be reared. The writer had the opportunity a short time since to note the relative thrift and growth of the following varieties planted on the farm of the late Chas. Gibb, Abbotsford, P. Q., seven years ago.
Populus certinensis.-This is an Asiatic poplar, imported a few years ago by Prof. Sargent of the Arnold Arboretum. It has gradually worked its way westward, gaining favor wherever planted, especially in the Northwest. As to its longevity in this country we are notin a position to state definitely. Specimens of this on Gibbland Farm are now over thirty feet in height, It sormer trunk. habit, foliage thick shining lighther upright ber is said to be valuable. Populus ber
closely that I doubt if it should be the above so ed. It seems, however, in some localities to
have have a smaller leaf and to be less vigorons. At
Abbotsford these run from 25 to 30 . Abbotsford these run from 25 to 30 feet in
height; practically, however, it is the same as height; ;
the first.
Populus nolesti.-Also introduced by Prof.
Sargent, has a large a top more spreading than the first two equally rapid grower, and a very valuable variety. Thirty to thirty-five feet at seven years on Gibbland Farm.
There
equal value a number of varieties of almost Voronish, Russia, and a pyramidal form resembling Lombardy, known as Pop. pyramidalis, of much harded four pears ago at Specimens
of this planted now twenty feet in height. Propagation.-The ease with which these
varieties are increased by cuttings is vaireties are increased by cuttings is another
point in their favor as a pioneer trea, Treas from cuttings set two years ago on the Experimental Farm are now eight to ten feet high. It
is best to make the cuttings in the fall from is best to make the cuttings in the fall from one
or two-year-old wood. Ten to twelve inches is convenient length. These to twed in bundles containing fifty to one hundred are buried in the
ground till favorable planting time in Cuttings taken from well ripened wood in the fall and treated in this manner will make stronger growth and give a better stand than if taken in
the spring, when the vitality of the the spring, when the vitality of the tree may
somewhat impaired by the cold of winter Of I Willows.
Of those I will only mention three varieties, eaves are taurifolia (Laural-leaved willow).-The pecially adapted to dry interior climates ; ver hardy. The true form of this cannot always be omewhat resembling then, and a spurious on s often received instead. Prof. Budd, of Iowa none of his bulletins classed the Lsural-leaved ee justly an ornamental, and it would seem to me time itstled to this distinction; but at the
(2) Salix atuifolic (Acute lowed willo) Rather a larger tree than the former will ew). ability to withstand extremes of climate. Suc (3) Sali.r currea (var Vely dry situations. (3) Sali.r aurea (var. Voronesh.-This is the
golden willow from Voronish, and is the most rapid grower, and will probably make the largest tree of those mentioned. Its bright golden bark enders it a striking and attractive object in
winter, as well as in summer. This has probably done the best of any of the willows tested Brandon and Indian Head. Propagated in the
same manner as same manner as the poplar. It is hoped that
before long these varieties will fid their before long these varieties will find their wa
into the hands of the west, and of their iny settlers in Manitobas and materially further the forestry interests of that
region.

Notes from the Ontario Agricullural College.
by presidint james mills, m. A.
I have pleasure in informing your readers that we are now nicely under way for another term's work. A large proportion of the old students returnet, of the 38 new students, 33 are 1st October. On the these 30 are farmers' sons. Ontario boys, and of these 30 are
class of students.
class of students.
students now at the College is all The class of students now at the cerception, the that could be desired. venture to say that there is not a theological college in the Dominion in which the moral and religious influences thrown around the students are more helpful or effective than those by which our students are surrounded in this provincial government college. Our young men have a small but bright and cheerful Y. M. C. A. hall in which they have a prayer meeting every week, a Bible class every Sunday, and special meetings from time to time as may be arranged. The great majority of the students take part in these meetings, and the life is clearly manifest exert upon our college life is clearly
and highly beneficial.

ATtENDANCE OF STUDENTS Our present attendance is quite satis, but we
We have room for a few more students, We have all, or nearly all, vacancies will be filled before Christmas.
travelling dairy.
Professor Dean, Mr. S. P. Brown and W. J. Palmer, B. S. A., all graduates of our own College, spent the months of July, August, September and October in giving lecutres and practical instruction in the testing of milk, the handling of cream, and the making of butter, throughout the counties of York, Simcoe, Ontario and Essex. These dairy meetings have been largely attended, the interest in them has been intense, and the work done has every where been spoken of as highly beneficial to forming community. Prof. Dean is now at the College busily engaged with exper The demand for nection with his departater-making is so great these object lessons in Dryden, Minister of Agrithat the Hon. John Dryden, Minister of Agri culture, has decided to send orse and wagon, to next spring, each to place. In this way it is drive from place to place. In this way it is
hoped that a large amount of valuble work can hoped that a large amounths, commencing about
be done in the nine mon be done in the t thidde of April next.
our dairy building.
Within the last twelve months we have added a good deal to the applianses necessary in our ex-
perimental dairy. It is now very much better perimental than at any time in the past, and in equipped make it still more complete we are
order to maiks erecting a considerable addition steam, and making
putting in a boiler to heat by sairy putting alterations, so that in fature our dairy
several severaa alterat contain two lecture rooms, a butter
building will contren, room, a cheese room, a milk-testing room, etc.,
and all the appliances necessary for the most and all the appliances necessary practical courses of
extensive and thoroughly pract
instruction in milk testing, butter making and cheese-making.
botanical laboratory.
We are also building a large and commodious botanical laboratory and a complete set of new
greenhouses for more extensive and practical work in botany and horticulture than we have
hitherto been able to do. So, all considered, we hitherto been able to do. So, al for greater sucthink we have grouture than at any time in the cess in
past. past.

## Too Much Mixed Farming.

by w. A. hale.
To cheapen the cost of production, and at the ame time to increase the price of the articles so who depend upon the soil for their daily bread. When times are hard, when competition is keen, and prices are, as at present, unsatisfactorily low, the tendency of us all seems to be to cast about for some additional line from which we hope to reap the profits we fondly believe tha others are enjoying. An acre of hops is added to the already full list of field occupations. Bee keeping is started to help out the receipts from the dairy. An acre of strawberrios is plante with the expectation of outdoing some Market marvellous results one reads abot. Mar reagardening comes in for a trial out. More land is son. An apple orchard bought or rented or taken on shapter, but usually to the end, not only of the chapter, of our bank account as well, avd gone from bad to worse-have undertaken far too much, "and made confusion worse confounded "-have, in fact, got our farming so much mixed that it is hard to know from which branch of it we are losing the most money. One excuse that is often given for this state of things is that in mixed farming, in case of failure in some one or more of our products, we are sure to have others to fall back upon, while with special lines in farm ing low prices in these might mean ruin. Upon general principles it would seem no worse to she for low prices in one article every ten years than to suffer low prices every yen whas ten ticles; but apart from to, to to instas of branches of farming to alt ris above medium few can seldom hopelds. Now, medium prices prices and average yot pay. There are not and average yields , dar days enough in the hours enoug man to give his concentrated peryear for one man all the various calls upon his sonal that mixed farming demands. $A$ man in a mall way may live from hand to mouth by do. ing his own work, but with larger farming and hired help he must not only make a success of what he undertakes, but must get the very best price for his products. This I believe to be well nigh impossible in mixed farming. The farm laborer to day has not the experie. to him to take much responsibility. Young ad from abroad, and unskilled emigrans amproved are now largely depended upon, an anrest means machinery seems to be one in the mount of of reducing the costor pro thoroughly stock a working capital requ farm with all the needed well organized ma be very heavy, to say nothing of the time and trouble in keeping them in proper order. One might naturally say that if all farmers became specialists overproduction would nsue in their special products. No doubt; bus branches of which he is most fond, and for which his soil, climate, and home markets ar best suited, and do his part diligently, and the chances of overproduction in some articles would be far less likely to occur than at the preseith time when people are disposed to change wier the times, and each one to rui the larges seems for the moment to
prices. I would not advocate in all cases a single
sjecial line group of soveral of which each would work in harmony with the other, and yet allow the increasing or diminishing of any one without clashing. Clover, potatoes and wheat in many parts of the country would work admirably, fertility being kept up with fertilizers; butter and pork go well together, but not with raising calves; milk, silage and clover; beef, roots, clover and pasture ; sheep, clover, roota and grain ; horse breeding, hay, pasture and grain; and in cattle breeding not only shonld the beef breeds be on separate tarms froment for breeds, but one variety of each is salicient in any one farmer to briag perfection may be his order that the price of po-the general works on In books of recroning now form but a prelimi farming and garre more intensive science that is nary suired to make successful the undertakings in which one has to contend with so much open which ootition. A book, for instance, devoted entirely to the cultivation of cauliflowers fills a want in the market gardener's business for which he does not begradge paying the sum of $\$ 1.50$. The years in which the yield of certain crops is small are the very ones in which the prices are correspondingly high, and here is just where the specialist comes in with his superior yield. Again, when the jields of special los he is engaged is so plentifult a market, he comes in with a superior quality, well prepared, and for mind concentrated on never wanting. We heasily trim his sails his fow special ines he of a fluctuating marto the changes in ane" I once heard a grain krowing specialist sas, " touches $\$ 1.40$ a bushel I sow barley, and when bariey sells for 90 cents I sow wheat". There is valuable food for thought here! Twenty years ago when fall pigs wero selling for 75 cents apiece I bought eight good Berkshire sows and a thoroughbred boar, and for two years afterwards sold young market pigs for an average of \$3 apiece, spring and fall, and then sold all my sows to the batcher just in time to see young pigs selling again in October for cents. In market gardeai, when pies it or high is the worst possible time to go into curtail to increase what we already have; racher curtai and increase some other two which does not apper is true of any general public, and the sam celery sells for 75 branch of gard the winter the market is almost cents a dozen in the wed the next season. When sure to be overstock $\mathbf{7 5}$ to 80 cents a bushel I seed por plant, knowing that I can buy for 30 to 35 over the next fall, and so devote my potato ents the nerfecting some other line which I feel is less in fashion. However open the autumn or however early the snow may go, how many of us are ever ready for the winter or properly prepared for the spring work? We are running over too many ill-prepared acres and attempting too many ill arranged schemes. Mediocrity will no longer pay. Better yields and larger prices are what we should strive for, and these know can be obtained, and with far less wear and less
of body and mind by more special and mixed farming.
"I am of opinion," said an old farmer to the
riter on the Emerson branch of the C. P. R. writer on the Emerson branch of the C. P. R., "that a half section of land properiy stocked ande
worked will yield more profits than a whole
worked will yeged in a hurried, slipshod manner."
section managed

## Agents Wanted.

 Agents Wanted.$\begin{aligned} & \text { We want good, active agents to work for us in } \\ & \text { every country in Canada. To suitable persons we } \\ & \text { will give permanent employment and good sal- } \\ & \text { aries. We ask esch of our readers to take an }\end{aligned}$ interest in the Advocate ; send us at teast an new name, more if possible. If yous canvass for us, and know of a suitable per cannot can, send us that person's name and address We are anxious to double the present circulation of the Advocatr. The more assistance give us in the way of sending new subscribers the better paper you will receive. No is the time! Help us to make the Advo CATE the best agricultural paper in America We will do our utmost, but we want and must have your help.

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through a third money through a third party. If you send money by risk. If you wish to avail yourself of our club
ing rates, carefully read the article on page club

## Maritime Correspondence

 the harvest as a whole is considered the last, an has been gathered for years. The only shortag largely sown than usual, has wielded was more E. Island, it is believed, will not have to impor any this year, while New Brunswick and Nova Scotia will need considerably less than usual fromOntario. Notwithstanding the Ontario. Notwithstanding the good crop, far
mers are not happy yet. All kind of produce low, beef exceptionally low, so that it is very dif ficult to meet the bills incurred because of the light crops of the two last years.
The New Brunswick Go
of stock sold fairly well, but farmers importation ning to feel that it is more important to get int raise something to farming, so that they can down stock from Ontario and then import bring feed seems to your correspondent a slow way to make money. The New Brunswick Government come to the very wise conclusion that farmers and horsemen can weep such animals cheaper than they can.
The Nova.
just closed its summer School of Agriculture has graduates-three as farmers, two as were five This school is a very modest institution, but seems to be doing good work. Professor H. R. enthusiastic, and succeeds in showing his pupils that farming is one of the very best callings a man can follow. There is a farm in connection students, who are allowed so much ione by the
thour for their work. The Nova Scotia Government voted last session some nine or ten thousand dollars to put a brick building on the farm, especially course of a few years Nova Scotia will have a Agricultural exhibitions werge.
Fredericton and Charlottetown this in Halifax which were very successful. A mechanical and
industrial exhibition all industrial exhibition was held in in St. John,
which was sucessful which was successful financially, but it was so methods that it is questionable whether it was of any solid advantage to the province
(Garden and (9) rehard

## Market Garden Notes.

by e. p. kinley, massachusetts, d
Celery Culture.-The extent of the cultivation the quantity grown, enormous. Fifteen years ago was professional course in the growing of part of the season that crops during the earlier be covered with their lie land may ultimately this result a perfect kewed crop. To obtain of the different vegetable plants is growth likewise the nature of the soil the nandersary cultivating, as with all vegetables foliage is the part saleable it requires in the the abundant quantities of immediately svailabl ertility, in the shape of soluble chemicals and moisture. A well drained meadow is the na home of the plant, but the high lands of Arlinge ton have become nearly as prolific through the pplication, for a score of years or more of the quantities of horse manure from Boston's city stables, thus crowding the soil with fermenting vegetable matter, which puts the land in a condition analagous to a sponge, thereby conservin noisture to a large degree
I have said that meadow land was the home f the celery plant, which cultivators will admit at even soil of this description can not produce he luxuriant growth so necessary without mor ress preparation. One of the greatest mistakes my he was made in planting celery upon a nead the second year from e sod. My crop "looked me in the face" crop does root, I found it growing in pon examining the color, all of which time; not so now. Th a puzzle to me at the knowledge of nature's laws I havid of a better that by cultivating the land by freen taught ing, letting in the air, a new fermentation sets the soil has becomeral application of an alkali grown upon it in great luxurianc celery is now first planting the soil had abundance pon my food stored up from past ages, but the plan become so compact that the air had no upon matter ; it had become totally sour A the present time these meadows are rieldi mammoth crops of celery with simply the application of an alkali in the form of potash; al other elements of plant food appear to be there, and enough for a long series of years.
Celery is a crop where rotation does not appear to play a very important part. I know of land that has been celeried for twenty years; but I must admit that the blight noticed the past few
years has been more Whether this difficulty severe than formerly. tinuous cropping with celery ascribed to con question. Some zultivators lay the difficulty to arowth; but as well as to an annual parasite inciden; but even so, these causes may only be ping. It is, however, noticed that the difficulty is most severe during either the time of those hot and dry south-west winds in September during a season in mid-summer after a prolonged season of wet weather. From experiments instituted by myself, I have been led to the belief the difficulty can
depriving the plant of its fine fibrous or feeding rootlets, which, in the case of over-moening were rotted off, and in the former case to the hot dry winds carrying oft the moisture from the soil, thus drying up these fine roots. It is a well-accepted fact that the square inches of the surface of the foliage plants are compensated by the same surface of its roots below ground, consequently any loss of root surface is noticed by the blighting of the oldest perfected foliage above ground. With this theory in view, a part of the feeding roots was severed by the aid of a spade ; the blight was soon noticed. This was an object lesson that taught me the above theory Was a matter of fact.
attention growing and marketing absorbs the part called to yoar, oven until their attention is middle of the middle of the coming February. The first of August. The to market soon after the first of august. The variety coming first is the

Paris golden,
been cultivated but three near comer, having showy celery, and from the facility is a very it can be grownand blead fith which come to stay, owing to its easy bedy it has one week being consumed in leaching, but bleaching, when it is marketable process of qualities does not equal the old and well eating Boston Market variety; but still, sine thi latter variety can not be satisfactorily pod this until late in the season (Nov. 1st), the Paris Golden fills a want long felt. Its earliness has driven from our market the Michigan grown elery, which the market has long depended pon for a first early.
the largest crof of celery can be grown by setting out the plants before the middle of June, which is done in blank rows foft vacant when seeding for the earlier crop As most of our crops are planted in rows twelve aches apart, every sixth row is left vacant for he celery row. Celery seed is sown broadonst her hotbed sash without bottom heat. The lass, however, is removed when the danger of avy frosts is passed. The proper date for ming the seed is April 10th seed sown earlie ere is a liability of the plants crowding by feld, and before the time of setting in the is less liability of sowing at this date there ronning to seed of the crop later in the seaso ating, as it is tough and plant is unfit for The field crop best and stringy
connection with celery is ovions
from sets; still onions from seed do not from sets they can be cleared frose of onions earlier, thus giving an early from the ground the land between the rows of cors. Fate beets, sold in the bunch state are fre Early grown for an early crop, also early bunch carrots as well as field lettuce. Since the introduction of Paris Golden this variety is grown between the rows of Boston Market. In such a case no early crop is planted, the ground being given direly to the growth of celery. The former variety, owing to its early growth and easy eaching qualities, being bleached by standing time to use is cleared from the land before it is time to use the soil between the rows for bank-
ing the Boston Market for the bleaching of the
same. I have said an early crop is not planted on land to be thus used. I will, however, modify that a little. It is possible to grow a orop of winter spinach from seed sown Sept. 1st,
and it is possible to get a crop of spring sown and it is possible to get a crop of spring sown spinach, but this does not admit of planting the celery quite early enough to insure a full crop, same can be said of an early crop of radishes. gelery for winter sale
from pits is frequently grown after early cabbage. The cabbage being marketed and cleared by the middle of July, the ground is ploughed and the celery planted in rows five feet apart. In this case the plants are taken from the seed-bed and planted in a temporary bed six inches apart each way. Grown in this bed they acquire more growth and become stocky, and when again transplanted in the new ploughed ground they make rapid growth, but not enough, however, to admit of sale without finishing the bleaching process in winter pits. For two weeks previous to placing in pits, the plants should be drawn together by partial earthing up; this compacts the foliage, which allows of placing in pit quite close together.
Celery pits are constructed by commercial market gardeners quickly and cheaply. Earth for the space of 12 or 24 feet wide, and as long as necessary for the crop, is thrown out, thas making two banks two or three feet high. In the centre of these two banks a ridge-pole is constructed by standing up posts upon which run the ridge-pole. The ridge should be three feet higher than the top of banks. After the pit has
bean filled with celery it is covered with boards, been filled with celery it is covered with boards, and as the season grows colder a covering of
meadow hay is put on one foot thick. In the meadow hay is put on one foot thick. In the
case of a 24 -foot wide pit, it will require additional case of a 24 -foot wide pit, it will require additional
rests between the ridge-pole and either bank of earth. A celery pit requires, during the winter, a good deal of attention; abundance of air is plished by uncovering the litter and lifting a board here and there in moderate weather, always being careful to not allow the plants to be touched by frost. Celery rots rapidly when once frosted after it commences to bleach. In this lattitude we do not commence to fill the pit before Nov. 10, previons to this date the plants are better preserved by partially banking up in the field. The variety of celery most desirable
for winter keep is the Boston Market. It not only brings a higher price, but it is a better keeper.
The preparation of celery for market consumes considerable time, whether taken from the field or pit. Nearly all the unbleached leaves are in Boston demands that the crop shall be exposed in Boston domans boxes which equal a barrel in or sale in which a charge of 40 cents is made refunding the same upon the return of the empty The bunches of celery should be of a size that three dozen banches will fill the box even full. It is rare, however, that a single plant of celery will equal one bunch ; if it does not, two, and sometimes three, plants are pinned together by driving through the base of the plants a tenpenny nail (if in the case of the Boston Market variety), and by tying together with imported base twine (a dried grass), if of the Paris Golden variety.

The Prospects of the Orchard and its Profits as a Part of Mixed Farming.
by G. c. castor

Now is the time of the sear and yellow leaf. The fruits have been gathered and marketed or stored for winter. In most cases and in most localities the results of the season's crop have been satisfactory ; in others disappointing. It is hard to account for the vagaries of a season like this. Why certain localities should be favored with a large crop, and others should have almost a failure ; but such is the case, if varions parts of the province. More especill with regan to the crop that I pures priniplly to doal With respect to the markets and prices, one thing other eertain from the experionce of thas and of apples throughout this province will result in comparatively low prices, and that unless in years of failure and scarcity, which sometimes occur, we need not expect to receive as high prices for our fruit as we did in days gone by. In this section the first settlers planted only the native seedlings. There were few if any nurseries in the country at that time. Later on when the improved grafted varieties were planted and began to bear, the fruit sold readily at from 75 cents to $\$ 1$ per bushel. These prices led people to believe there were large profits to be made in growing apples, and large numbers of trees were planted; but unfortunately a large percentage of those planted were entirely unsuited to the climate of this locality, and as a result only some of the hardiest survived. It took years of experience, attended with great loss and disapointment, to ind out the varieties nost suited the we have varieties of fine quality, And now that we have varieties of tine quality, in the province with increased knowledge as to the best varioties, cultivation, pruning, etc., rafting the more tender varieties on the tops of hardy stock or native seedlings, information gained by experience and widely disseminated by means of such organizations as the Fruit Growers' Association, and by the horticultural and agricultural journals of the country, we ar now to consider the question of prices and profits. Whether in view of the prices prevail ing and the markets available, it will pay to enlarge our orchards or plant new ones.
In order to arrive at a satisfactory conclusion we must of necessity compare the receipts and oxpenditure of the orchard with that of other
branches of agriculture. According to the returns furnished by the Bureau of Industries of Ontario, compiled from the reports of over 200 correspondents in various parts of the province, and taken for a period of five years, the profit and loss on the various crops were about as follows :-After charging against the crop a sowing or drilling, seed, after fitting, harvest ing, threshing, marketing, wear of implements deficit of $\$ 2$ an ace, of $\$ 1.89$ per acre, peas a deficit of $\$ 1.60$, barley a profit of $\$ 3.80$, oats a profit of $\$ 1.89$, corn $\$ 4$, potatoes $\$ 19.78$, turnips $\$ 7.86$ per acre.
With respect to live stock I have no statistics
the statemen of Mr. Simpson Rennie (a man of large experience), made at a farmers' institute
meeting. Speaking of the profit of buying steers and fattening them for market, he said that he made a nome market for his grain at a good price, and got the benefit of the manure. In the oase of animals raised on the farm there would, no doubt, be some larger profits to show, but as potatoes seem to show the larger profit, wo will take this crop in comparison with the orchard. An acre will contain about fifty trees, costing about $\$ 15$. The land will require the ame preparation as for a crop of corn or roots, but you do not lose the use of the land when planted with trees, as good crops of roots or any other hoe crop can be grown between the row for several years till the trees come into full bearing. I have grown good crops of straw berries between the rows of orchard trees while the trees wore young. The trees will thrive all the better by the cultivation involved in growing some kind of a crop that requires constan cultivation during the summer. Of course th land must be manured well to keop this up, but and intepse grown will par lill the trees and into full bearing whan they will require all the land to themselves, and plenty of manures of the right kind, and cultivation as well. When the trees come into full bearing they will produce two barrels per tree. This is a very fair estimate. We have known orchards do very much more than that, but we will put it still lower and say an average one year with another of one and a half barrels per tree. Of the fifty trees ten have probably failed, leaving forty; this would give a yield of eixty barrels of which say fifty are saleable fruit ; these will sell in the orchard at $\$ 1$ per barrel, $\$ 50$. We will deduct $\$ 10$ for manure, $\$ 5$ for pruning and spraying, and $\$ 6$ for picking the fruit ; this leaves $\$ 29$. The ten barrels culled would be worth probably $\$ 5$, making $\$ 34$. If we deduct from this $\$ 9$ for rent, taxes, cultivation and other expenses we stil have the net proit of $\$ 25$ nerer orchard, which is more than er put than the best pasing farm crop. But in this but follow a system of mixed farming so that the orchard will compare favorably with any other crop the farmer can grow ; and aside from. its necessity for domestic purposes, will contribute more than anything else, acre for acre, to the revenue of the farm, and any farm that will pay to cultivate will pay better by having a fair sized, well kept orchard planted on it.
And now a fow words about varieties and their markt value. As many farmers will be making purchases or giving orders during the winter months for spring planting, a few words of advice as to the best kinds to select may be acceptable, based as it is on experience. $\boldsymbol{A}$ great mistake often made is in planting too many early apples, and too many varieties of these. I would confine myself to one, and that would be the Duchess of Oldenburg. Being without an equal as a cooking apple its early bearing, great pro uctiveness, and above all, it oxil me hardine places it above all others. has ecceant many reall frit the Red has access $t$ a goor Alexander would fill the bill. St. Lawrence is unequalled as a dessert apple but is not certain, as in some seasons it spots badly as to be worthless for market. But the
most saleable, and, of course, most prefitable apples are the high class winter applea. The has its faults. It is not quite hardy enough for has its fanlts. It is not quite haray enougn for come into full bearing. I would top graft it on some hardy stock. It would be sure to live and would bear earlier. I would do the same with the Greening and the King. If one has too many Duchess-more than he can find a ready market for, they make an excellent stock to top grift those varieties on ; also the Tallman Sweet. Among the newer varieties of winter apples that are hardy, early and abundant bearers, and rank high as market apples on account of their attractive appearance, good quality and freedom from blemish, I would especially recommend the Wealthy and Pewaukee. The Baxter or La Rue is a fine, large apple, and very good bearer, bat has one fault, like the Snow and St. Lawrence, it is subject in some seasons $t 0$ the fangus scab; but when not affect is one of the beell to have sorts 1 have grow. f this variety. These varie at least a few trees of this vaniety. There ties would be a very good sele on others that are orchand with, and that have good, sound, not proitable, and that have good, sond,
healthy stocks. I might also add to the list the Golden Russet. I have found it hardy here and a regular bearer, sells well and is one of the best long-keeping varieties, in my estimation. The trouble in many localities is that there are toe many apples grown, and yet not enough ; too many for the local market, and not enough to indace buyers to come after them. In these cases more trees of the proper varieties should be planted, and in the meantime those who grow a surplus must find an outside market for themselves. To those whoare thussituated I would say, Put up a first-class article in clean, neat and proper packages, whether it be baskets, boxes, or barrels; let the packages be uniform and neat, and the froit the same from bottom to top all first-class, it that is the brand. Put your name on the packages. Let your name on the package stand as a certrat or it to be If the fruit is just what you represent it to be. I these rules are strictly adhered to there will be no trouble in sum It pays to use the proper ap ple barrel, if you ship in barrels, even though they cost a little more than the second-hand they cost a little more than the second-hand sugar and sale people to ship in the sugar barrels and finding that they held too mueh would measure three bushels into them and fill up the balance with straw, then cover the top with canvas. Now, if they happen to be a tender kind, easily bruised, and are hanled on a wagon to the station, and then receive the usual rongh handling in loading and unloading, they will be in a pretty mess when they arrive at their destination. It will be found the most profitable to use the proper sized barrel, new and clean, with the fruit properly packed, and the head pressed in and secured. It is then in shape to stand rough handling, and will be found all right and sound when opened. I do not believe there is any danger of overproduction if the proper kinds are grown. When we consider the vast area of country in which no apples are grown, he rapid growth of our large cities, and the rapid settle ment of our north-West prainies and che increan ing demand for, and appreciation of our
well-flavored apples in Britain-with all these
things in view I think there is-no fear of overproduction. I believe there are consumers for every bushel of fruit we can raise, who would be pleased to get it and pay a fair price for it, if we are only able to place it within the consumers reech at the proper time and place. And here something might be said about the transportation of our fruits. There are improvements required, and wrongs to be righted, and grievances to be ired aguinst the companies, and also the nida nen, the righting of which would bring th grower and consumer in clow hoth. These are would sccrue to the be the oftention our arit natters which require the atten eflort will doubt succeed. And now I must close this chapter with the promise to take np this subject at some future time where I now leave off.

## Pear Growing for Profit

 by G. w. clineHaving grown pears for a number of years for profit, and having had good success, there are, perhaps a good many readers of your very excellent journal that would like to know what I have done to succeed in pear culture. When I first commenced planting pear, as well as other fruits, some twenty years ago, I read and talked on the subject of pear growing a great deal, and carefully noted all I heard and read. Having met several American pear growers, I noticed that some of the successful ones were those who were growing their orchards of pears on the dwarf system, but on pear stock, not quince stock ; and I was recommended to plant oniy young trees, thrity, of course, and let the limbs start near the groun. I therelore did sobought young and tring stok, and that is the only way to get good rooted stock, as the larger to impassible to dig a large tree and preserve the fine fibrons roots that you get on small, thrifty trees; but remember that if small trees with their fine fibrous roots are not carefully planted they are no better than the larger trees, and a tree with all the fibrous roots possibly needed on it can have them all destroyed by a careless planter in a hot spring day in fifteen or twenty minutes. The average hired man does not know, or does not care, to take the trouble to keep roots moist and covered from the hot rays of the spring sun. I have men that have been with me for some twenty years, and although good planters, want to be continually watched. There are, I believe, many farmers and others who get choiee stock from the nursery, but by the time it is planted it is dead, and they then blame the nurseryman for bad stock.
However, I am wandering from the subject of pear growing for proits, although I think the above will not be lost to the mind of the farme and planter who is after knowledge. My trees were mostly what would be cailed whips, just straight bodies without limbs. I cut off the top at about $2 \frac{1}{2}$ to 3 feet and let the limbs branch The top being thas formed low, shades the soil The top being thas formed low, shades the soil from the roos, aw also the , haly of the tree, the frait from hlowin fre bis also fine for picking the fruit. Some will say, Why, you can't caltirate; but I find no trouble whichivation as long as I want to cultivate size when I aillas the trees attain their bearin
to sod of itself, and afterwards keep up the fertility by fertilizers, and all grass and weeds are mown and placed around the trees, not close ap, but one to three feet from the body. No thing in the manure, ashes or mulch line should be placed in contact wit to bark of any tres, as the mice are very the tree I keop a small denco nor my amall friet trees summer and winter as a protection against mice in winter and the winds blowing them over in a wet time in sume Sor will way I can't grow pears if I don't cultivate, To those I say, Try pears if I don't caltivate. To those I say, Try
it. I have heard the same from others, and it. I have heard the same from others, and
after they have tried it, and saved their trees from blight, have had pears in plenty, and almost as fine in size as when cultivating highly. Blight, the great destroyer of pears, is, I believe, by growing the trees in sod after coming into bearing, almost, if not entirely, prevented. As for myself, I have had no blight on trees growing in sod, only near some cultivated raspberries that had been manured by horse manure within six feet of some large bearing trees. One year, some years ago, I manured several Flemish Beauty trees with cow manure to see if I could stop the fungus spot and the cracking of that pear, and I did succeed, for in less than two years there was not a tree left of those manured. Some will say, Why, we can't grow good pears without cultivation and manure. I say, Try it; try feeding the trees well with ashes and ground bone or some commercial fertilizer that is good; one that has plenty of potash and phosphoric acid in it. There is one good brand that I have used for several years largely and find it all it is recommended to be. It is manufactured by Brodie \& Hawit, Smith Falls, Ont. I do not see it advertised in your columns, although I think it would be to the manufacturer's advantage to do so. Then, again, there is some new soil that do not need the feodigg that one ong often produce very fine trees, but do not bear often produce very fine trees, but do not bear they should. We often hear of trees that
blossomu well but do not fruit. Those trees need more ashes or lime, and some other kinds of trees, as the case may be-apples, pears, plums, rrees, as the case may be-apples, pears, plums,
peaches or grapes-to fertilize the blossoms. believe that all orchards should be well mixed in planting to bear fruit well. There are some varieties that do well planted alone, but the majority of fruits do the best by being well mixed in the planting, and pears are no exception to this rule.
There is another cause, I believe, in the fail ares in pear culture-too much haste in growing the trees in the nursery, and too much haste by the farmer or fruit grower in forcing the orchard too fast to make the purse rich. The old saying "make haste slowly" is one of the best mottoes for the man who, in planting, expects to become rich at it in a few years. There is a great amount to be learned in fruit growing to be successful; but I believe there is as much, if not more, money in it than any branch of farming, if the man gives it the proper care and attention; but as a general thing poor attention makes an entire failure.
In farm work there is nothing more important than a well defined purpose, based upon accurate
knowledge of what particular line or lines of griculture the farm is best adapted or lines of bend all energies and operations in that direc-

## Peach Culture.

## by w. w. hlekorn.

The proitable cultivation of the pasch is limited to a few favored localities in Canada. These are usually found on high sandy loam, with a thorongh natural drainage of the subsol? and bordering large bodies of water. There no doubt the area may be very the selection of where they mas be grown by hardy varieties, and by co rit all inened vation. Such a delicious frul ar antreffort peach is well worth putting forth an extra for for to obtain. This artiole is peciall ared peach farmers who do not live in the favored peach growing districts, and would ine co grow actice for their own use. among farmers " the them in the garden "Travellag ait tor growing where the the treas make a strong growth in vegetabies. The first hard winter will destroy
 them. Sed in the fall, otherwise they will not woll ripenos select the highest land available or ares preferably a sandy loam. I for the peach trees, prelfrianed, it must be deeply uderdrained, as they will not stand wet feet What is usaally called a poor soil is rich enough for paaches. Young trees one yoar old from the bud are best ; plant early in the spring; twelve to sixteen feet apart is about the right distance to put them. Corn may be grown among them for the first three years, after that no crop should be planted among the trees. Cultivate thoroughly early in the season, and discontinue all cultiva tion not later than the middle of July. Any large weeds that appoar after that date may be cut down, but on no account should the soil be stirred, as this will increase the low of sap and thus prevent the early ripening of the new wood and fruit buds, which are all important to suc cess in peach oulture.
The selection of varieties that begin to bear young is most satisfactory. Agents who go throngh the conntry usually recommend the Early Crawford, or some new sort then we introducoed by the firm they represeni. The Crawford is a first- class peach, but the trees require to be planted five or sil yoara before they begin to bear, and of this variety appaer to season. The fruit buds of frost than are most be more easily injured by frod on new sorts, as kinds. It is not saie to depend on now oord, wellbut few of them are alings may often be found tested varieties. Seedings fruit where the named that will produce a crop that if more attention kinds fair. To the eselection of good seedlings with were given to thes, the cultivation of the peach hardy fruit buas, oly more profitable in the could be made districts, but they could be grown paach grow parts of Canada where that fruit is now in many pa seeding peach has been grown in this locality for many years that produces a crop when nearly all named varieties fail. It is a fine yallow pasch of extra fine quality, medium size, and usually comes quite true from the pit. Many hundred bushels of it were shipped from here this season. I am experimenting with a number of promising seedlings, in addition to which 1 have planted some of all the named varieties 1 can procure, and hope to give my experience with them to the readers of the Advocatr at some future time.

All the very early peaches aro Clingtonen
and are not suitable for canning. Alexander is as good as any of this class, and should be ard isa yellow freestone of the best quality, and usauly prod cees a heavy crop. It is the most profitable early yellow sort grownest hardy in fruit
Fill's Chili is perhaps the most Bill's Chili is perhaps the most haral in
bud of any named sort
wh have
It is a large late y jellow peach of only medium quality, but ial epplendid for eamning, and can be rolied anon
to produce a crop where most kinds would fail to produce a a cop where most kinds would rail.
It ripens about with the Concord Grape, and It ripans about with the Concord grape will not
should not boe lanted where that trape ill not
ripen. Smok Free is another good vellow late ripen. Smook Free is another good vellow late lat.
peach that unaally producees a heavy crop of fruit. peach that usaally produces a heary orop of frait.
Wager ripens earlier than the two last named, Wager ripens earlier than the two
and is very hardy and productive.
Wood ashess are the best mativare for the peach,
Worm applied in the spring and worked into the soil by cultivation.
Pruning sh
Praning sionld be done every ppring. Shorten
in the weak shoots fully one- -alf and
sirrong ones in the weak of thoos proions year's growth and thins out all sickly branches and those not required to
 plant on clay yoil, or on any land that cannot be
thoroughly drained. $A$ tree or two can often be thoroughly drained. A treeo or two can ong prorection to enable it to thrive and bear fruit in localities where they coold not withstand the severe cold withont such shelter. The west or Ooth are most proferabie eines of heant and cold
 A paech treow will survive many more degrees of rost without injury when the frost can be with
irawn slowly, as woild oceur on the north or rest sides of a building, and not exposed to the direct rays of the sun. They will not start into growth so oarly in the spring, another vory im
portant point gained. $A$ few days delay in
 this raseon a northerr slope is always proferable ior a pasch orchard.

## Ftarmers' ©ociefies.

## o. Uncle Tobias" and the Patrons.

by chas. braithwaite, portage la prairiz I notice in the November number of the I not's Advocate a letter from Uncle Tobia anent Patrons of Industry. With all due de forence to Unole's great knowledge, experience and wisdom, I must, as a Patron, take exception to some of his statements. He says the organ izers' and instigators' zeal is prodnced and fod by the money that rolls into their pocketa. This, to my mind, is a narrow, selish conl tion to put on the actions of men who are only tyring in obedience to a god-given instinct to raise by union and organization then financially heir fellows morally, socially and financiall, and only asking their birthrigh as Canadians. Uncle also claims to be an sistency. So am I; bat, the prejudice out of look around you. The pill see these rail your eye, then, perhap, yon piling up their road monopories and mat 15 to 25 per cent. thousands by loaning 3 k . There is the millers oorrowed at abou hardware combine, sugar associa trust, grolent combines, dry goods associa bines, ${ }^{2}$. oepers' protection, wheat buyers' rings, etc., otc. besides thousands of men who live on the fat of the land and travel in Pullman coaches on tho interest of these large concerns-and who
foots the bill? Why, the laborer and farmer, of course. But if he wakes up a little and begins course. But
to look into these things and do a little kicking,
to is told to take care, he must not kick against the pricks; he owes his existence to the grace of these concerns; he must not get too big for his boots, but be more prudent and saving, etc., etc., above all, as Uncle puts it, be consistent. Now, Uncle, I throw down the gauntlet right here, and believe every Patron will be with-combines, away with monopoly in every fors, cos, and let overy man stand on his own ground and on his own merit, depend on his individual capital,
brains and muscle, and the Patrons will drop the francial aim of their order and take their chancess with the world for a living. Again,
Uncle asks, how would the farmers like to sell Uncle asks, how wonld the farmers
their prodice at 12 per cent. over cost of producthoir produce aswer, there are more farmers in
Canada farming at a loss of 12 per cent. on invested capital than are getting 12 per cont. over cost of production, especially
vinces. We are a little better, perhaps, on these vinces. We are a hitle better, perhaps, on these
western plains, thanks to our virgin soil and favorable seasons; hat why multiply words or contend. I ask the unbiased thinkor, have
the farmers a prievance? It is generally coneeded the farmers a grievance ask, in all conscience, as
citizens of a common heritage, have we not an citizens of a common heritage, have we not as
good a right to organize to protect our rights and good a right to organize to protect our rights and
advance our interests as any other class of our advance our interests as any othor class of our
people? But Uncle says that is forming a compoople and is not consistent. I answer, it h
been said by some, you can fight the devil b been said by some, you can fight the devil beet
with his own weapons ; but some may say the farmer's grievancess are only in his mind.
answer, if so, the sooner he by some means finds caswer, if so, the sooner he by some mo. But no,
this out, the better for all concerned. Bat sir, our methods are ridiculed, our order anathenatized, and why? for the same reason that the
Ephesians of old made an uproar againat the preaching of St. Paul, nam
The Tendency of Organization.
In agricaltaral commanities, as in religions, mercantile and industrial circles, there are the days of multiplied organizations to an exten never before witnessed. The particular ten dency or form which cortain associations may assume, depends largely upon the conception their promoters have of the situation and the relative importance they attach to ohjects, the attainment of which may be striven for. One class of organizations prop as affected by his the cons ith the reet of the world commercially ; bile another, of which the Farmer's Institnte system is the best example, deals with practical and conomic agriculture in all its aspects. The former obviously grapples with more complex and difficult problems, sometimes donbtful of permanent solutions. Withoat admitting that existing organizations of that type are destined to be evanescent, history han their results temporary. Of course it does not therefore follow that there should not be organized effort towards the overthrow of unjust systems, or the correction of recognized abuses. Meanwhile let not the farmer have his attention divertod from organizations that are more especially educative in character, -those that help him to be a more intelligent, systematic and progressive tiller of the soil, breeder and feeder of iviry stock, grower of fruits, or manufacturtr of dair
products ; or that keep him posted as to the parproducts; ; market his products to best advantage. There is no question about the immediate, araliab value of information along these lines, providing
it be properly applied. By all means, then, let the farmer avail himgelf of organizations that help him in the acquisition of practical know ledge, because in nine cases ou
very point lies the secret of his success or failure.

## The Tax Question

Is thi present sectional system of raibin axis for public school purposis fair the legislative and county GRANTS JUST TO THE RURAL MUNICIPALITIES by daniel m'kechnie.
Worthy Master and Patrons,-The question before us for discussion requires an answer, either yea onanay, and also proof or evidence in the contention for or against. It is an established axiom that knowledge is necessary to good government, and that the nation has the righ to establish the indispensable foundations of it own permanence. It is also proclaimed from the housetops that all men are equal before the law. Joseph Cook in his work on socialism takes as his motto, "It is wicked to withdraw from being useful to the needy, and cowardly to give way to the worthless," and advances the proposition that it is not wise policy to perpetuate a system that has elements which prevent the ideal of the nation as to education from being realized, so. that the sons of the poor man can only secure education at the hands of third or fourth-rate teachers, because in sor in it achool can riso no coachers. la brot har the grand sentiment that our ard toenolence onnoun these axioms are true, and bepe our argements these axioms aro tha, and base our argument unst be nay, and we will endeavor to advance the proof of this contention in the evidence taken from the actual working of the school laws in the Province of Ontario.
the sectional system.
Let us take for example the township of Elderslie, in the county of Bruce, with its divisions into sections, the amounts raised in 1891 for school purposes, and the rate in the dollar in
each oase, as also the acreage and assossment and other statistics, and it is plainly seen that there is by no means an equalization of taxation


We find that the sections having the lowest are forced to engage cheap teachers to keep th rate low.
We proceed to consider these figures, remembering that the law makes it imperative upon each section to provide ample accommodation and keep ap a properly equipped school. In each section in this township the school is kept for the full year under a system that causes one man to pay more than another for the same accommodation. These figures show that there is a wide difference both in the assessments and the rate in the dollar. The difference in the rates between Nos. 6 and 4 is not much ; yet in No. $6 \$ 249.40$ is raised, while in No. 4 there is only $\$ 160$, and they are both rural sections ; but the difference in Nos. 5 and 6 is more marked. In No. 5 the ratepayer pays, on $\$ 1,000$ of an assessment, 41 cents more than the ratepayer in No. 6, which has an advantage of $\$ 51,725$ of an assessment, besides being a union section. The sectional system gives the union sections an undueadvant age over others, in that a larger assessment is attainablo 1 which has the lowest rato, and. No 6 as mion $\$ 1737$ and $\$ 109,918$; and the difference on $\$ 1,000$ of an assessment will be 74 cents in favor of No. 7 , as against No. will be 74 cents in favor of No. 7 , as against No. yet No. 8 can only raise $\$ 181.25$, while No. 12 raises $\$ 236.50$. All the school-houses in Elderslie are paid for, and in most of the sections named there is not $\$ 10$ of a difference in their value. In No. 1 the rate is low, but with one-half mill less they only raise $\$ 140$, against $\$ 236.50$ in No. 12. From the report of the Education Committee of the County Council, the number of pupils from each school that have passed the ontrance examination is taken, and the section having the lowest assessment are less successful, leaving out No. 1 (Paisley) and No. 3 (Chesley), which are village schools and graded, with number of teachers. The conclusions that must be inferred are that there is not an average taxation for the average work performed, and that the sectional system of raising taxes for public school purposes is not fair and equitable.
legislative and municipal grants.
While the question does not allow us to ente the larger field of provincial appropriations, yet the amounts set apart out of the general revenue of this province in 1891 for education amounts to the sum of $\$ 645,818.73$, of which $\$ 243,248.73$
is expended upon public and seperate schools in the form of what is termed legislative grants, apportioned annually to the several cities, counties, townships, towns, and incorporated villages, according to the population of each, as compared with the is enal as shown by the las a The County Council must levy annually uno each township an equal amount for school purposes as the amount received by each from the legislative grant. The county inspector apportions these grants to the different sections according to the average attendance of pupils in each school, as compared with the whole average number of pupils attending the schools in each township. It may be the proper way to apportion the legislative grant according to population; but the county grants, being raised by direct taxation, the amounts demanded from each
township should be at least apportioned to the sections according to the amount they pay, as it is unreasonable that a section with a low assessment, required to keep up a school of its own, should be forced to aid a section with a large assessment upon which the taxation is already light ; for instance, say the rate upon the assess. ment of the whole township for $\$ 368$ of the municipal equivalent would be .00028 , then section No. 9 would pay $\$ 26.60$, but according to the auditor's report for 170 the anount received by No. 9 was only $\$ 1.30$; in No. 9 they would pay $\$ 41.04$, and recived $\$ 960$; No. 7 would pay 10.6 , and recived $\$ 2180$ No. 2 would pay $\$ 31.10$, No. 1 (Paisley) would pay $\$ 20.09$, and received $\$ 29$, making a ratepay the ville of Paisley, which is an outside bute to the villag the villages do may their municipal equivalent to the county pay their municipal equivalent to the county according to the auditor's report for 1890 , the village of Chesley raises no equivalent and in that case the ratepayers in the rural portion of No. 3 (Chesley) would pay $\$ 6.34$ over and above their full share of the necessary taxation. There is no provision in the system of auditing the county accounts whereby the ratepayers in the rural portions can learn whether the towns and villages are raising the municipal equivalent o not. - We might go on and show further inequalities in the present mode of raising school taxes, as well as the municipal equivalent, but sufficient number of deductions have been mad or the parpose intended, and in our opinion the levying of the municipal equivalent should cease, thereby removing what may be justly termed a grievance. What was a suitable system in the early settlement of the country is in no way fitted to meet the requirements which are necessary in the advanced age in which we are now living. In every department of labor and science there is need for educated men and women, and the provisions for acquiring the highest possible proficiency should be as full and free as the means at our disposal will admit. discussion.
The members were thankful to Brother McKechnie for pointing out so plainly the defects of our common school revenue system. All agreed that there are very serious objections to the present system. It was shown that to be in harmony with the broad principle adopted by our Educational Department, that all should be equally educated, as far as common schools are concerned, thero ho. taxation which the present plan did not ensure, Under it one section may be ambilious and keep a superior the children of a be better educe tho $t h$ other and thus thwart the purposes of the general system. While the prostion gere to the system as it exists, it was admitted to be a very difficult matter to be entirely satisfactory in every respect. Th be entirely satisfactory in every respect. The only feasible plan suggested was to raise a
certain sum for each section by general levy in a county or township, and then allow any section to increase it by special levy of its own in the same way that the whole amount is now raised. The county equivalent was held to be most unjust, and should be relegated to the regions of the past.

## $\Im^{9}$ oulfrg.

## The English Egg Trade

The Montreal Star's special cable from London says the Canadian egg trade is making wonderful strides. The high prices enabled one shipper to make $\$ 5,000$ clear profit on one shipment. One shipper alone expects to handle $35,000,000$ before the season ends. Now, if this is the case, the sooner the Canadian farmer increases his stock of poultry the better. But it seems absurd that the prices paid to farmers should be so Jow when the profits to the shippers are so immense. I would advise all farmers and others interested in the poultry business to save all their young pullets. Winter them well and they will shell out the egg fruit nexted for the English market. Therefore, if farmers want to obtain good prices for the produce of their fowls they must keep the breeds that will lay a good large egg. We can always command good prices here in Canada for fresh laid winter eggs, be they large or small ; but the Englishman is fastidious in his tastes, and prefers a large, fresh egg to a small stale one, and we cannot blam him. The Canadian Poultry Review sent ou circulars some time ago to the leading poultry breeders in Ontario asking the question, "How do you feed your hons, "" I get the best egg results?" I give below the practical experience of the "- In the in Ontario. One man says:-"In the morning I give the hens a warm feed-a mixa or brats, or shorts, at noo I 1 also keep plents and at nght crushed bones in my coop, and feed of gravel and crops :-"I feed for the best cabbages. At an arge proportion of wheat egg products in morning; then I scatter wheat calded the chaff to give them plenty of exercise, mangen will not lay well if too fat. At night I sive a full feed of oats or barley." Another recmmends boiled potatoes mixed with a little bran or shorts; a little chopped oats and peas mixed, occasionally giving a feast of boiled beef offal or a little oil cake. He keeps a supply of ground bone and oyster shells in front of them. Another says :-"Always feed soft feed for breakfast about as follows : Corn-meal, 1 part ; shorts, 1 part ; bran, 2 parts ; mized with boiled potato peelings or any other scraps and a pluck or rough beef scraps chopped fine, also a little sulphur ; salt and pepper to season." From the above your readers will see that a variety of feed is preferred by experienced men. When fowls cannot get insect food it is necessary animal food almost twice a week pure drinking water should always be kept before them. My own experience is that i yod supply of eggs. well you will not get a good soiled with a little shorts and cattle spice (a handful to a pailful), also a little peppor, to be good in winter. I also at, which keeps them healthy. But the great seoret is clean, comfortable, warm quarters. It you do not keep "Biddy" comfortable, I do not care how you feed her she will not shell out
the eggs. I find clover leaves cut up and fed to fowls to be relished by them, and is very nutritious. If the clover is scalded it is all the better Give also all the milk you can, as the albumen
in the egg is increased by this ration. If farmers in the egg is increased by this ration. A farmers eggs as the shippers seem to do, we can at
least get the highest price going for our products.

## Che 2ipiary.

## Setting the Apiary in Order.

by r. f. holtermann, A. o. a c.
With the approach of snow, and the setting in of cold weather there are a few matters which require the attention of the apiarist. Of course we take it for granted the hive containing the be stored so as to be free from the attack of be stored so as to be free from the attack of
mice or moth. Combs are particularly liable to attack from mice if they contain honey or dead bees. If there are dead bees in the cells the comb should be held on its side and tapped until they fall out. If honey, they should be carefully guarded and separated in hanging. This latter method offers less inducement to the bees, and also to the moth in spring. The entrances to the hives should be closed and the lids left on With this method and close watching the combs should be safe. Right here it would be well to mention that combs are more easily broken than glass. When the temperature is low a slight jar will crack them away from top, bottom or aide bar. Then when warm weather sets in and they are put in the hive the comb will ofen turn and be attached to its neighbor. Any pieces of wax or scrapings from the ber fully rendered into wax, an, sold to the storekeeper of ber to in dealer, be sent
rendering combs.
In rendering old comb, cappings or other pieces of wax, great care should be taken to prevent the wax from being overheated; a steady fire is best. After once rendering and cooling the cake shong placed in a larger pan of hot water and then all gradually cooled. Gradual cooling prevents cracks in the cake." Under no circumstance should the pan be jarred when cooling; this will spoil the appearance of a cake. The wax after a second cooling should be ready for mar ket when the sediment is scraped from the cake unfinished sections.
Sections having only a very little honey in them should be put over a strong colony, and the bees allowed to empty the honey, carrying it down below for winter stores. They should the be removed and put away as are the combs. These sections are very useful in the spring, and one or more put in a half story withe to having foundation in them induces the bees to go up into the half story earlier. These sections are known as bait section. from these April 17th sections ready for market ros will fetch a Such honey, even if spring honey, wat time new ready sale at paying of course there is no use honey is very ther strong putting the sections on and
Bee hives should get a thorough overhauling. If defective in any way the spots should be atended to. A crack in the lid can be patched by ailing a strip of tin well over the crack and hen painting. Other parts of the hive should be on the outside. "Gleaninga in Bee Culture" in the last number gives some excellent hints on painting. This will apply to anything painted outside as far as the holding of the paint is concerned. In an editorial it says:-"We a
not really satisfied with white lead for a body paint to hives. It flakes off too easily. Common yellow ochre, were it not for the color, woun white lead for a priming coat can be very greatly in creased by the addition of about 50 per cent. of yellow ochre. The second cost can then have one-third of ochre and two thirds of lead. The resultant color will be a light cream, so near white, we think, as not to make any practical difference as to the absorption of the sun's says; and if all hives are shaded as they should be, either with shadeboards or shrubbery, it can $y$ certainly make no difference. Well, then we have a paint that will outlast pure white lead. Those of you who have anything to do with
painting know that ochre makes an enduring painting know that ochre makes an enduring
priming coat. Venetian red is just as good, only phe color is against it for single walled hives." The above will also remind beekeepers that the
further they depart from white the warmer the further they depart from white the warmer the
hives will be in summer-a very undesirable feature. I have noticed hives painted quite a dark shade, as if the paint left over from paint-
ing the house had been utilized. No wonder ing the house had been utilized. No wonder
there should be complaints of melted down combs in such a case, and no one but the person
responsible for the paint need be blamed. Think responsible for the paint need be blamed. Think
of putting your chickens all summer inside of a of putting your chickens ail symurave some one
room with a glass roof and you hat ust as wise as the beekeeper who paints his hive dark color.
Bee hives and hive stands should be put in a iry, sheltered place, to keep them from rotting.
the hive stands are left on the ground they raw dampness and harbor vermi
a question.
A subscriber asks : If having good drone comb in the upper story, he should use it, and
have a queen excluded, to prevent the queen from going into the upper story to deposit eggs.
The question is one which it is not easy to give The question is one which it is not easy to give
definite advice upon. There are only two reasons definite advice upon. There are only two reasons
why the drone comb may not be good in the upper story. One is that the queen will once in while slip through the perforated metal and
when deposit eggs in the drone comb alone then deposit eggs in the drone comb alone,
The other reason is that when the colony is very strong and cannot get at drone comb below, the
bees will clean out the drone comb above ready bees will clean out the drone comb abover read
for eggs, and the bees will not store honey in or eggs, and the bees will not store ioney regretted that the drone comb was ever built.
lesser reason is that if one is not very oareful, lesser reason is that if one is not very caref.
some day when in a hurry the beekeeper may throw a swarm on this drone comb, and very soon a nice swarm of drones be hatched. All things considered, I should feel disposed to meit the

## Canadian Entomologists

The twenty-first annual meeting of the Cana-
 Hall, London, on Wednesday, November 25th. There were delegates from Montreal, Ottawa,
Toronto etc., present. Rev. Dr. Bethune, Toronto, etc., present. Rev. Dr. Betrune,
President, presided. Atter the transaotion of
routine business the election of officers for the routine business the election of officers for the
ensuing year took place, and resulted as follows: ensuing year took place, and resulted as follows:
President, Rev. C. J. S. Bethune, M. $A$., D. C . President, Rev.
L., Pot Hope ;
$\qquad$ don, Treasurer, J. M. Denton, London ; Direc-
dors, tors, No. 1 division, W. Wenton, Hondon ; Hirrington, Ottawa-
No. 2, J. D. Evans, Sudburr ; No, 3, G No. 2,
Geddes, Toronto ; Nons, Sudbury ; No. 3, Gamble
way way ; No. 5, J. A. Moffat, London ; Librarian and Curator, J. A. Morfat; Editor Canadian
 Lyman, Montreal ; and Rev. D. W. Fyles, quebec ; Auditors, Messrs. J. H. Bowman, and
W. E. Saunders, London, Rev. Dr. Bethune was unanimously chosen to represent the Society at the meeting of the Royal Society, which is to
be held in Toronto next year. The treasurer's be held in Toronto next year. The treasurers
report, presented by Mr. Denton, showed the finances of the Society to be in a healthy con dition. A number of very interesting papara dition. A
were read.

## GYanilg Aircle.

Eind Words.
It. was only a very small thing to say- Are
 ${ }^{11}$ Tras only word of comport taid.
 Forivive me, thopeg boometimes hard to sav. Anf get with theirit tender sumpong,

 It was only taxat form the ege of fritend Bution tears, in in toratig hand. hail You may ooont these things a very makk,

$\mathrm{w}_{\mathrm{e}}$ look in the faces of thoso we meet.
 We koom thera are homesso wantipg in ore

But for lack of fuel the freburns low

It it sad tot think when iove is soo oheap.


- Writen for the Rurol Presesby Mrs. S. H. Dry


## OLD LADY PINGREE.

It was almost dark at half-past four. Nancy Pingree stood staring out at one of her front win.
dows. Not a person was passing on the wid dows. Not a persone came up the old brick wall betwoen the dry phlox bushes $\tau$ the house. It was had looked at hundreds of times before in winter twilights like this. The interest had died away with the expectation of new developments $\underset{ }{\text { Pingree }}$
When she had first gone to the window she had said, "I wish I could see somebody comin' that longed to me. ful, leafless trees arching over the quiet snowy oad thr the gimpse of hele clear yellow wester sky through them, the whole landscape before her
with all the old lifhts of her life shining on it be came a mirror in which she saw herself refleeted.
she started finally. and went across the room
with and lons bamble. She was lame in one hip with a orng sbambe. She was lame in one hip there was a certain poor majesty
but, for alt hate ther rusty black dress hung in
in her carriaet. Her straight. lonefolds. and trailed al little. She hel
her bead erect, and wore an odd black lace turban. her bead erect, and wore an odd back lace turban.
She had madrene the w with op athern.
It was a direct outcome of her own individuality, She had made the turme of her own individualitity
It wasa direct outcome
perched on the top of her long old head it really She took down a plaid shaw which was hanging
in a litte side entry pinneed it over her head, and
oventd the outer door into the clear twilinht. opened the outer door into the clear twilight.
straight from the door, on this side of the old
house, all avenue of pine trees lead to a hen-coop.
 Nancy's srandfather, Abraham Pingree, when he
hatset out these rees, it bad come thothis.
Nancr went dowb beteeen the wind pines, over










 Oou? We dian't have any folks,"









 the window. Seat. "Guess she's tuok this now. an
more too, said she, with ano odd tone of satistac-
tion. Even now, in her splendid self sacrifice, there


 similar honors, nor yer of honest benevoence
There was a grand thoumh half-smothered con
con scousness of her own diving in her heart.
for herself the respect which she would
for an old Pingree in his palmiest days.
As time went on she lost this, however; then the
humliating consciousness of her own condition came uppermost. She dreaded to tell Mrs. Holmes
of the change in her resburces, and now no ranity or the chang benevolence rendered the task easier.
over her own bim simply felt intense humiliation at haviug to
So She simply felt intense humince. However, she never regryetted what she had done.
She ereww very ond of Jeny indee, the two had
muio in common. They reenally ate their simple muob in common. They generally ate their simple
meals torether. Je nuy bay plonty of work to do
now Mrs. Holmes gave her alreat deal of sewing She often told Nancy how she was saving yp money
to pay her debt; she neerer uspected the real state
the to pay her debt; she never suspected the that Miss
of the case. She baa taken to thinking that Mis
Pingree must have wider resources than she had Pingree
know.
Nancy
Nancy would have died rather than lt her know
of the mearge sumin in that conerrated corner of the
ureau drawer. It seemed to her sometimes that of the meagre sum in that convecrated corner os thet
uneau raver. It sened to hher sometimes that,
he would rather die than have Mrs. Holmes. know.

 atter tea
nolonger
The ce


 Aond many little bushes were flowering around them.
The gold-green leaf-buds on the weeping-willows were unforoding.
The Pingree lot, however, partook of none of the
general linhtness and loveliness $\xrightarrow[\text { spring had }]{\text { here }}$ hat lay, in the order of thotr deaths, men and women and childern. ea.
white stone above he grave mould.
 nite promise of he helesess death.
Nancy Pingree. looking thruugh the narrow en-
trance gap in the evergreens on the dark, tomb.
 ceme with the Pingree calaracter, and she was a
ance wine At one end of the long row of prostrate
Pingree Pingree At one end of the there was a vacant plaze; enough for
stones Nancy began with this topic when she was seated
a litle later in Mrs. Holmess buscos. carpeted.
velvet-uphol tered


 Mrs Holmee stared at her, with a look first of

 hadn't got anybody to feel bamate so
the town, an' it wouldn't make
ence."."
"How much money was there?"
"Eighty dollars." said Nance, with the tone in
which sthe would have said a million
Mrs. Holmes was a woman who was seldom
 isregarded the strict reguations attached
in Nancy's ease and bolldy oftered to repiace the
money out of her own pocket. She could well


 novey out an oun, from forks yet.
Well I didn't mean to hurt
 Dont you helieve Jenny will be able to pay you

 Me Deacon?"
neete's well. thank you. He's spone to the railroad
momedy was telling me the other day
 meetin' some lately; but 1 dont know. nigh, she
When Nany reacced home that nith
wondered if Beng were not really waiting Wondered if Benny Field were not realy waiting
on Jenny." She found him sititig with her on the
front oorstep
Before long the knew that he was. Jenny came

 Early that morning ins. her face, and announced
with an important look on hancy that the new railroad was indeed going to
to ta Nancy that the new railroad
be laid thouph the Pingree land.
."They are.going to build the de
 that a litht any more n present.".
". 1 d dont

 haing You know the property was.
thing so muach when herectosed.:
worth

 When the girl told her she was koing to be married
Saner looked at her hall in awe.
 shametaced. This old womaa, who had never had
a lover. regarded this young woman with awe , hal
of if aover. regarded thed on to another level., where it
as if sie bad detepo on be indecorous for ber to follow even in
would
hought.
 There's one married, rd never consent to getting
of getitug marit

 up a little dressmaking shop. I an I get married.
a single ne thing to wear when
told him I wast. .ve wot a little money for you

 of mone.din, things with it,"',
some wed by her happiness.
Even Jenny s pride was softened
 had Miss piven to caresses. "Y Yu are real good to
herself
mee. said she." and you were oood to mother.
 dollar of that monty.,
There was a beautiful clear sunset that night.
Nancy Nance Pingree saw. All her heart was thll of
sittin. Foom window.
sweet. almost rapturous peace. She had had a bare sweet. almont rapturous peacerthly ambition, pititiful
hand life and now the only yarthly
and melancholy as it seemed, which had kept it



 City and the Angel- -veople, and the sweet ripe
Pastures and Gente Flocks and sitl waters. and


$$
\begin{aligned}
& \text { With its wing } \\
& \text { A she s.it th }
\end{aligned}
$$


"I wonder."
thinkin' about gat tin,
about gettin' buried?

Nulinnie XMay's Dep't.

## My Dear Nieces: -

It is extremely dangerous for any woman who wishes to make a successful way through life to ppear ill used, for it is sure to afford some precomption not quite favorable born, the wealthy all whom nature or accident has placed in positions to be looked up to by their fellow creatures, have never any cause to consider themselves ill used. It is the opposite classes who are not well used by their fellow creatures, and to hear any woman complain of ill-usage is apt to stam her as
class.
No matter how real the grievance may be, never ask the world for sympathy. You will
not get it ; and if you did, what good would it not get it ; and if you dac, what goody and self-
do you? There is a lack of dignity do you? indeed a lack of character about the wem who would show by a drawn down moath and generally dejected aspect that she is ill used. Once let the world know she neeeds its sympathy and you will feel self-humiliated. Apart from the consequences of admitting you are ill used, the indulgence of this feeling has a tendency to souring the whole disposition, and after a time countenance and character take on that air of dejection which is always observed in an ill-used woman.
Everyone is not born alike, either physically or mentally, but it doos not noed the possession of a brilliant intellect to altribute the best of disposition, and alway ar fellowmen. Anyone motives to the acls of sit upon; but why, when can gatiner wo more comfortable resting. place? Keep your grievances to yourself and they will reduce to half their size by not telling them. Some women are a positive terror to meet. No matter how bright the day, nor how joyons the occasion, their whine is always the burden of their song. Is it any wonder persons shun them? And how much more profitabie, and pleasant, too, to exchange greetings with one of those bright, cheery women, who never aro ill used, because they do not complain. It is not hard to tell the fate of a woman who is always on the lookout for injustice from others. She takes no solid enjoyment out of hife, nor as and looks all the time as if she were waiting for warse to come.
True it is that some are not so nice as others ; at do not set oursel the rest nasty; and do not and pronounce ald world cold and heartless, bepuse everyone in it does not take on the same tone as you do. Upon the whole, there is very ittle sense in such charges against humanity, for looking at the world with the eye of a critic, one's own imperfections must be brought out very plainly. Let ns remember we are full of faults, and we will touch more lightly upon the faults of others. Minnie May. P. S.-Minnie May offers a prize of $\$ 2$ for the best essay on "Idleness." All commuoications to be in our office by the 15th Jan.
Pat-Axcuse me, sor, but fwat soort of a bird
do yez call that frickled janius jigglin' the parts do yez call that frickled janius jirglin' the parts
of spache on the fince beyant ${ }^{\prime \prime}$ Farmer"Why that's a guinea-hen." Pot-" A A guineahen, is it ? W Wll, be the poip
it's not worth it, so it isn't."

Minnie May has received the following letter from one of her little nieces :-
To MinNie May:
Dear aunt, I a am seven times one to-day,
But the years do pass so slowly a way, But the years do pass so soowly away,
Ithink my yage should be fear moret than seven,
What a long, long time, till I'm three times seven, I am told, "I will surely change my mind, 1 And when ma are numbers seven times seven, As life passes on, and my hair grows gray,
They say, an can lin learn all along the way And some lessons berun in life's frist seve,
Will only be ended with ife's With love from sour niece,
Many thanks, dear Olive. turns of your birthday. M. M. Nov. 2nd.

PRIZE ESSAY.

## Letters and Letter $\mathbf{W}$ iting.

by h. m'donald, thamesville, ont. In reading the letters of some of the great athors, and other renowned men, we see much to admire and imitate. We may not be able to that gifted Carlyle in his Robert Burns, or Emerson, but Carlyle in his brilliant letters to alent possesed, and reech and best use of the of those to whom we write, complished.
Let a business letter be terse, decisive and to the point, and endeavor to make your style and concise and appropriate of all subjects ; crear repetitions, erasures, insertions, omissions, avoid confusion of ideas, or labored constructions, an your letter is to a friend these blemishes might remain. We should feel in this case as Edmund Burke did in writing to his triend Richard Shackleton, when he says: "I do not know to whom I could write with greater freedom and less regularity than to you, for as the thoughts come crowding into my head I cannot forbea putting them down."-the true seeret of an interesting letter. As also Rev. George Garrard says of his letters to Sir Thomas Wentworth I write as fast as my pen can go, without either order or much meditation to form them." Let no tone of coolness pervade your writing. Hannah More, in writing to Horace Walpole, says: "A cool letter wakes all the discord in me." If no affecting us all in this way, we might inadvert ently wound the feelings of those that are dear
to us. to us.
Let a lover's letters, if not so learned as that that of Wm. Pitt, Earl of Chat expressive as writing to a dear one says: "I have neither when nor words to tell you how tenderly I Lord Collingwood, who was second in mand to Nelson at Trafalgar, evinces an interest in small matters at home when he asks: "Do the poplars grow at the walk, and does the wal of the terrace stand firm?" An interest that those who are from home would do well to imi tate. What could be more appropriate closing words for a letter of condolence than Wm . Cowper's, when he writes to his sister-in-law in her bereavement: "I grieve with you, I pray for you. Conld I do more I would ; but God must confort you.
home shelter to those who are away from the Wilkie Collins, white as Chas. Dickens did to actly where I when he says: "You know exacty where I am sitting, what I am seeing, we." Be as cxplicit as this in going on around
and your letter will not be put down with a sigh as unsatisfactory, as is often the case now ; but be brought frether hand, the home scenes wil ne at home, with memory, and often a loving rat home, with such a letter, will be able to source of strength to them in worl, and be a source of str
f temptation
neglect the dear ones they have arway not to the old home, for no letters will be so gind in welcomed or so eagerly perused. How go gladly the postman's coming is looked for and where no postal delivery is established, how wher echoed the question, Is there a letter for me followed by the chilling response, No! which has sickened many a heart, all because of their negligence.
In conclusion, I would say, let us copy from these gifted men I have quoted, so far as their simplicity of style and interest in those to whom they are writing is concerned. But our letters will be characteristic of ourselves, and must be such to be appreciated by those who care for us. Let us write as we would talk if the person ad dressed were present.
I would not feel I had done my duty were to close this essay without a warning word to who may now be your affianced busband for you well know,","There is many a slip 'twixt the cup and lip," and never put upon paper that you would blush to see in after time, as so many
thoughtless girls have done before you. Be warned in time, and perhaps save yourself much future annoyance and regret.

## Recipes.

## christmas cake.

One pound of butter, beaten to a cream ; one pound of sugar beaten into it ; add the wellalso well whisk ne pound of mixed omd of raisins, stoned chopped; one pound of mixed pellanched and one teaspoonful each of $m$ peel cut in strips; namon ; add br degrees one pound of sifted fin beat well in sud put in a buttered calo place in a steamer and steam for four hin When taken out put into the oven for half hour ; turn out on the bottom of the tin it was cooked in and let cool until next day. If you want it iced, dissolve a tablespoon of gelatine in half a cupful of water; then fill up the cup with more boiling water ; add pulverized sugar until thick enough to spread; beat well to whiten and lay over the cake with a knife moothing it off by dipping the knife blade int boiling water. When all is smoothly covered, lay the rest of the icing over it in ornamenta
devices, and leave to harden in a warm place english plum pudding.
Mix one pound of suet with one-half pound o Hour ; roll together and chop fine until all but the shreds will pass through a coarse colander add half a pound of fine bread crumbs and six well-beaten eggs ; then add two pounds of stoned raisins, one pound of mixed candied peel, three grated nutmege, and half a pound of sugar ; tablespoon of salt and half a one of mace ; mix buttered mould three hours.
mince meat
One pound sugar, two of raisins, one of apples, one of mixed peel; a little ginger; half a pound
suet ; a tablespoon of salt, and a well-boiled
tongue. These must all be chopped fine, or run through a mincing machine, mixed together with a pint of brandy and two grated nutmegs and a jar until wanted.
cranberry sauce.
Pick over a quart of cranberries, wash and stew, with half a pound of sugar, until soft;
rub through a colander and heat before using

## Answers to Inquirers.

Will you please inform me if there is anything that will make my hair grow? I am wearing it hair-pins have injured it, as it think that the patches $M_{y}$ ar What relation is the colork-brown and curly. What relation is the color of hair supposed to have to the disposition of the owner? $\qquad$
The first essential for keeping the hair healthy is to keep it clean. Use good soap and a little rinse well with clear water softened with ; then lump of borax. Sage tes is recominall hair coming out. It is also said to med for hair grow. Black hair was mos oeme the ancient Jews, while the Greeks and Roman gave the preference to golden shades. Those with dark hair work the most ; those with fair think best. Red hair is a sign of passion jealousy and ardour. Auburn shades indicate delicaoy and refinement of taste. Dark-brown combines strength and susceptibility, while black hair denotes hasty temper, self-will and revenge. Black-haired people are the most liable to consumption, brown-haired to rhenmatism and heart disease, red-haired to pleurisy, peoumonia, ague and neuralgia, and fair-haired persons to skin diseases. Closely-curled hair enotes vivacity and excitability. Hair curling in irregular rings on the face indicates good ature and vitality. Hair parting naturally down the centre and falling over the temples denotes feminine elements and genius of a ertain kind. Straight hair in cultured persons indicate evenness of character, honesty of purpose, a clear head and good talents.
How can I clean whil
How can I clean white silk ribbon to make it Took like new ?
"Jean."
To one quart soft boiling water, add one ounce of white soap; let remain until the soap is
dissolved; then put in the moothly, being sure not to ribbon, folding let remain for twenty-four hours or wring it; do if the silk is not very dirty) ; tesse one wind inse in clean, tepid water ; rinse the and time, putting a little sugar in the water 'cthen hang up to drip ; then iron with a moder hot iron ; put a fold of muslin betwen ribbo and iron.
What are the properties ascribed to the different vegetables and their effect on the ystem ?
"G. P." Celery is a sedative, and is good for rheumatism resh cut. Cucumbers cool the system when aces sleep. reas and beans are strengthening. Potatoes should not be eaten by those disposed to get too tout or with liver derangements.
A Florida man found 25 fish in the stomach Somectisin snake he shot.
Sometimes the colony of bees in a single hive twenty-four hours 18 to pounds of honey within

The scene is an Eastern one, and whether in Christmas or summer time presents much the same appearance, for there no winter comes to cause lealess thess is different to those seen in mation of the rocks is dirent the red, lurid Canada, and over thonset. The well at which glare of an Eastern sunset. The well at which days, and calls Him to mind who preached a serdays, and calls rimer was heard since, to one listener. The stones all, as then, around the well, also the grass and shrubs which show the proximity to water, which travellers on the deserts long so much to see, and which the shifting mirage, like man's hopes, leadshim to think he has almost reached.
The camels, too, are here-these 'ships of the desert "-so necessary in these long journeys, requiring provisions and water. What a strange sight we would think it to see trains - not of cars, not even of halfbreed freighting carts such as we see on the prairies of the west, but of camels, one after the other, with their loads and their owners. One is lying downeady to be loaded, instinct in them a strange historic intarA strange tor these animals, and the highly-bred ones spoken of by Ben-Hur, and led, of by Ben-Hur, and their owners from different countries, guided by the Unseen Spirit tomeetatone place to find Him who was both God and man-the carpenter of Bethlehem, and He who was the Son of God.
The palm trees are here also with"thei beautiful green tops, and thoughts of dates come to mind as well as cooling breezes of palm-leaf
fans.
How refreshing after the long journey, to men and camels, must be the sight our picture and five inches long for the body. Wind several represents-cooling water, shady trees and "shadows of great rocks."

## Fashion Notes.

$\qquad$ Cloaks are worrof all engths, from the fur lined coaching jacket to the Russian mante tight or hal but for active walkigger and they are worn fitting jacket is preferred, plain or braided, waitable for winter weather.
The half-length shoulder cape, while very stylish, was very cool in a strong wind, so they styave been laid away to a more appropriate season. Soft cloths seem to be the favorites for season. Soft cloths seer are, giving a sense of

An Eastern Picture. $\quad$ luxury and warmth that lustre or alpaca cannot and, giving them a bend upwards, fasten securely give. Plaid seem to be gaining in popularity to the flat piece of cardboard, place the body in but dresses of all shades, textures and patterns shape and stitch firmly in place; sew a strap of are still worn. braid at the back to push a whisk broom in and ribbons to hang it up by.
A newspaper case is made by covering a piece of cardboard thirty inches long by thirteen wide, with cretonne or any material you fancy. Sow the ends together, through which pass a brass rod with ribbon to hang up by; put bo at the ends of fraterig in the same way, only smaller. can be Cover an old-fashioned hanging lamp shade of
of porcelain with lace, leaving the lace-edge a of porcelain with lace, leaving the lace-edge a little below the porcelain; decorate this edge red and green chenille.
a threaded needle-
book can be made of any strips of lining material, half a yard long by three wide. Thread needles of different sizes with dark and light cotton and sewing silk, taking up long stitches at inter vals; double the throads, so as to have as long noediefuis as possible pinked out flannel loaf, pinked out flannel loaf; sew a small pocket acoross filled with assorted buttons. Sew a gay ribbon to the other end, to tie when rolled up.

## A Bran Pie.

 A gala day for the little folks is Christmas, and we should endeavor make it as it was intend ed to be - bright and happy, and a bran pis to it.Fill a wash tub with bran, and supply enough of toys to go all around, or candies, or oranges, and if some of the playmates be invited somuch the better; provide for them also. Wrap each toy, or whatever it is to be, in paper, and bury the bran, and when all are in it paste white in the bran, and when all ore . When ready have or brown paper over the ap. Whaced upon a sheet
it carried into the room and plat spread upon the floor. Cut a pie-shaped piece out of the paper and let each child pull out one gift at a time. Do not name any of the gifts for any child in particular, but let each draw in turns until the supply is exhaustod. The gite can be inexpensive, lead pencils, books, toys, oranges, raisins, candies, skipping-ropes, kniven, or anything the fancy and means may be very but the enjoyment of the 1
"Let us remove temptation from the peth into youth," as the frog said when he planged
the wator, upon seoing a boy pick up a stone.
bsence of change in bonnets is the fanc birds are worn- meathers, pompons ana dainty lowers exposed to the frosty blast, and dark shades prevail. No bright colors are seen, dark
green, dark brown, dark blue and black are most in vogue. The tendency seems to aim at comfort and durability in ladies' garments.

Presents for Gentlemen.
butterfly whisk-holder can be made by and soft they are, giving a sense of then lay the smaller on them, but a little below

[^0]
## 2trele Com' Department.

My Dear Nifgrs and Nephbws:-
It does not seem long since you were little
babies with long dresses and red faces-when Uncle Tom first knew you. But the little faces are changing, changing, and the little baby feet have learned to tread the path to school, the little observant eyes have pored over the books there used. This great, wide world is opening ap before sou day by day-the world of thought as well, and you stand ahead of all preceding study.
The Poet Tennyson clothes the thought in beautiful language, when he says
"I, the beir of all the ages,
In the foremost files of time."
You, children of the farm, in your quiet country homes, reared in plenty of fresh air and sun shine, on home-made bread, fresh eggs, good butter, milk, apples, honey and tomatoes, and all the other things which go to build up grand constitutions for your life work-grand homes for great minds to dwell in-how well may you be envied-yes, envied for all these things by your city fiends, and for we ll we ant and in what land shall we find anch liberties as we enjoy

Then what shall we render for all these things ?
The work of the world is done by few,
God asks that a part be done by you."
What have the years brought forth from you infancy till now? Has your babyhood's promis been fulfilled, and are you what your parents would have you be? What you are now, forecasts your manhood's or your womanhood future.
You have seen, on these clear December morn ings, the sun rising in roseate splendor, an watched it climbing up the sky. On your way to school it glistened on the frost on fence, an shrub, and tree, and over the clear ice, where a noon you skated it made a glitering track for you to follow. Wistributing light ing all it tonches, in diribug so and beauty, so make your ha cos, eve further, trength, Who said "Let there be light: and there was light."
As the beautiful Christmas time approaches
which appeals to our feelings, let us make it a hallowed as well as a joyous one. When loved friends meet again, and the family group gather round the Christmas dinner table, where there are vacant places-0 so many now. When, by the Christmas fireside, the glowing light falls on the merry group, it is a rare and happy family that can count all the laughing faces and think there are no absent ones to-night. O treasure these gatherings, they will soon come no more, when land and seas divide you, and some of you have crossed to the other shore. It is well that as we read again the sweet old story, that we ask what tha: Child Jesus, who was born in Bethlehem's manger, almost nineteen hundred years
ago, is to us to day, and what place we give Him ago, is to us to day, and what place we give Him in our hearts
 $\mathrm{D}_{s}$ wn of Thonght." Just as the sun we watched
rose from the dawn, so our thought rises and is put into words, and these into deeds, and so our
lives are made up. Some rise, and some fall ; but we all grow old as the years come and go. What
have we to show for '91, as the college classes put it ? Now, and even mory
are we going to do for ' 92 ?
are we going to do for 92 ?
Hoping that my nieces and nephews will be ready to enjoy a very Happy Christmas, and


## The Sky-Lark.

Ethereal minstrel! pilkrin of the eky!
Dosst thou despise the earth where cares abound?
 Thy nest w bich thou canst drop into at will,
Leave to ue nightingale her shady wood:
 Whence thou dost pour upn the world a f Type of the wise who soar. but never roam.
True to the kindred points of heaven and home."
-Wordsworth.


Hardly an English poet but has praised the song of the sky-lark. What a glorious melody it is as it greets the early morning with its joy ous song, surely it may it would her to ind a bird better known or more widely appre iated. "Singing she mounts, her airy wing tretched towards heaven, as if from heaven he note she fetchèd." - She generally builds her nest in low growing whin bushes, or in th high meadow grass, almost resting on the ground A naturalist while wandering through a fiel one spring came upon an entire family of skylarks. Anxious oobserve their proceedings,
withdrew a few paces, and there witnessed curious performance. The old birds seemed greatly disturbed, and were making a loud noise and darting about as if undecided what to
do. Finally, the mother bird popped into the do. Finally, the mother bird popped into the
nest, seized one of the little birds, and lifting it upon its back rose and flow away. Her mate almost immediately attempted the same feat,
but whether he was unused to the operation not, the little hird would slip off. He succeeded with much difficulty in balancing his load and flew after his mate. In a few moments both re. turned and repeated their tormer action, unti
they had removed every bird from the discovered nest. The same observer on another occasio saw a sky-lark, when startled from its nest,' seize an egg in its claws and dart away. Very likely
it had had some experience with nest robbers, and was determined to foil them this time.
"Now weel befa' the cloud that bear
And weel the voice that sings,
And balm bbe hee earlv airs
That wander round thy wings.

- Thou. wee bold bard, durst make its fold

Of azure thine array
And riot in its richest
Fold
Though thou thyseit be gray
" Cauld, cauld it were to blame the bird The sweetest words heart ever heard-
Love, liberty and light."

## FIRST PRIZE STORY

## Tale of Twenty-five Years Ago.

1 fear many of my cousins hold a very wrong opinion of this part of Ontario (Carleton and Lanark counties), as many persons from Western Canada who have been here use this or a similar expession: "Why, I thought back here was a wild, rough, and not much settled country." Now, if such be the impression of my uncle and consins, let them pay me a visit, and I shall be most happy to undeceive them. Of course, overything is not as nice as in the western part of the province, because not nearly so long sow so Loss than forty yoars ago our farm forest And it is a little anedote of "Joold time" that I now purpose to relate.
"In these parts, twenty-five years ago trave ling was by no means an easy accomplishment rail-cars being nuheard of and sleighs and wagns having to serve orery purpose, In the spring of which I write my aunt and uncle who were living in Huntly township, were moving to Ottawa, a distance of about twenty-eight miles; and my brother Andrew, then quite a little boy, was entrusted to drive the horse home from the city. It was near evening when he left Ottawa, and a cold, raw spring evening it was; the roads were bad, but the boy was brave, and started out boldly for home
Before going far he overtook a man walking and took him into the wagon. For a time thing were pleasant enough, but presently it began to rain, and having groceries with him, Andrew took the robe or blanket to cover the parcels and did without himself. He urged on the already tired horses, that he might reach a more familiar part of the country before nightfall. The air hecame colder and colder, and when the stranger alighted at his destination he feared the boy would freeze; so he begged nim to remain with him till morning. But Andew kiow hat those and howld and wordy cot aced he hac was das the rain was rain $l o b$, for it froze as it fell, and his clothes which were wet before, became stiff now. He was nearly halffrozen, and his numbed fingers almost refused to hold the icy lines; but he knew no one and would not go in any place
Things were coming to a sore strait, so he said to himself: "There is one place about seven or eight miles from grandfather's that the horses have been at before, and perhaps they will turn in there." Any faster gait than a walk was impracticable, so he put the lines around his body and calmly awaited his fate. As he had hoped, the horses, freed from control, turned in at this place, and when Andrew went to alight, his limbs were so powerless that he tumbled out head first.
He reached the door with difficulty and rapped, whereupon a kind woman opened it, and was amazed to see the wet, shivering boy. He explained the situation, and she sent her sons to attend to the horses; then she gave him dry clothing and a good supper, after which he felt much revived. He spent the night ther and anve the worse for his adventure Ther ing none the wim him so kindly is still living white-haired grandmamma - and one of he
sons is married to the daughter of the very aunt for whom Andrew had taken this memorable trip，and it was last fall，when he visited us with his bride，that I heard my brother tell this little story．
But journeys of this sort are like the old forests，things of the past，and when any of you foel disposed to call on your cousin，the C．P．R． will land you safely at Pakenham，only three miles from where she lives．
In conclusion，allow me to wish each and all the season＇s choicest greetings，and may our Puzzle Corner for 1892 be cosior than ever，and our list of cousins largely increase，ont．
wish of AdA Armand，Pakenham，Ont．

## SECOND PRIZE STORY．

Up an African River．
by annie manser，crosshill，waterloo co．， ont．
I suppose everybody has heard of Dr．Living． Iones journey across Africa and descent of the and er ittle steamer Pioneer，under Dr．Living． tone＇s direction，sailed down the Mozambique Channel．
The appearance of the land is not very invit ing，yet by no means so dismal as we have been led to expect． $\mathbb{A}$ wide beach of light yellow sand spreads away at low water to the flat country beyond，with forests of the mangrove extending evenly along the margin like a broad fringe．As far as the eye can see on Gither side， this monotonous line remains unbroken．The soil is firm and dry on these open tracts of jungle，and they abound in every part with a variety of insect life．Birds are plentiful enough in the delta，but there are few with bright plum－ age，and still fewer wir the while the swampy borders with the
forests are favorite resorts of the buffalo.

Passing into the Luabo，or principal mouth of
the of the surrounding district，the mangrove swamps continue for a mile or two above the coast，but are then displaced by the skirts of made through the dense and curious under－ growth that covers the ground for miles．Not an eye has seen in their far recesses the over hanging mass of intricate net work，as the long cable－like creepers extend from branch chick canopy of leaves．
The variety of trees is endless，with their rich covering of green，but not more so than the limbers，which hang from them in festoons，or
the fantastic parasitical plants that droop from their boughs．The queen of palms，the grace－ ful pandamus，appears at intervals in the dis－ tance，recalling familiar scenes as it tapers above English village．These mangrove forests are something wonderful in their wild luxuriance． The width of the Zambesi varies from half
mile to more than two miles，where the soft， yielding banks have been worn a way by the
current．The river during the dry season（from current．The river whing having been in flood during the two previous months，is beginning to get low and leave bare the the stream．Dur－ banks formed by the the dry season，when the ing the misten so shallow as to prevent canoes passing along，the Zambesi presents a very re－
markable appearance．You proceed through a markable appearance．You proceed through a
region feebly described as sterile．A round you in the sun lies an archipelago of sandbanks， white and glistening． The native tribes of the Zambesi are very
indistinct．They are not very energetic，so much cannot be said about them．

Puzzles． My first is in sprite bus－not in fay．
My second is in bellow，but no
My third is in Yy third is in in pellow，but not ins ine，bray；not in
My fourth is is in
My My fortth is in ieasuare，but not not in joy，in boy；
$M y$ firt is is spectacle，but not in qlass， My fifth is in spectacle，but not in plass，
My sixth in ount，but not in lass；
My seventh is in proud but not in great

 Now，readers，all you have to do
Is from each
And Is from each ward two leters take
And part of your Christmas dinner thes＇ll make．
ADA ARMAND．
－－Numrrical enigma．
 My $5.13,2,3,13$ is to quenct．
My 16.9 ， 8 is is the dearest spot on earth． Total is a sure way to make your Curistmas a
pleasant one．${ }_{3-\text { Numer }}$

 My $14,31,24,43,13$ mean to cromd．
My $6,17,7,19,33,44,15,24,30,40$ mean perrless．
HENRY REEVE．

## 知8国両资「4． <br> 5－Numerical Enigma

 Our ship is on the Mystic deep．We use both sail and oar
arink Our port of refure on the brink
of Puzzledoms happy shore． Of Puztiedoms iappy shore．
Miss Armand is our captain，rue
sir Henry Reeve，first mate：
 The FARMER＇S ADVOCATE．
Arast there，Captain，hear the Arast there，Captain，he where？
Man overoord，ho？
＇Tis Harry of the sack wille watch， Tis garre me quite a scare．
 A word fron all．I know will cheer A word from all．I know will cheer，
Hour dear old Unole Tom
Oist sails，weigh anchor，iet us sail Hoist sails，weigh anchor，iet us sail
Straikt into Puzzledom
Or take a $, 2,3$ around the world， Or take a $1,2,3,4$ around the world，
In sixt seondo of time
By traveling oll ong the line of thought． By travelling along the line of thought．
Then putting it into ihyme FAirbrother．
Answers to November Puzzles． 1．Cherfully．2．Prize stories．${ }^{3 .}$＂Birds of a
（eather will always flock torether．＂．
4．Cap，nap． feather will alwaye flock torether．＂．
gap，sap，hap，map，lap，pap，rap，tap．
Names of those who bave Sent Cor rect Auswers to Nov．Puzzles． Ada Armand．I．Irwine Devitt．Emma SKelley，
Arthur billings．Harry Elson，Helen Connelly，May

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| $\begin{array}{l}\text { Blo－b o } \\ \text { Principal．}\end{array}$ | Standard－Bred Trotters and

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STOCK GOSSIP
Farmer's Adviting to advertisers $p$
Mr. James Graham, Port Perry. Ontario, purposes
selling bp pu lic auction on Dec. 3 rd, 1891, to hea
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 very good lot-the best of two careffilly seselecte
mportations. We can recommend them to ou eacers.
 Messrs. Prouse \& Williamson, Ingersoll, report
sales fill Topsy, to Mr. Uren, West Oxford, also a grard
illy foal to Mr. Wm. Faulds, Carado. oc. Ths no
loubt will make a grand mare as she is well come. Heut wil make a grand mare as she is well come.
her dam Jeanie (Veans (mimp) won seeond at Bar
head doen show, first at Huston and Killallan District Show. Since being imported she has won many
prizes. beino second at Toronto this fall. Mr.
Gaulds may feel proud of his purcithase. fill. Professor Robertson recently bought for use o
the Dominion Experimental Farms the followin
live stock :- Two Holsteins from Messrs. A.C. Hal
 yrshire bull from Messrs, Kain Bros. Byron, Mr. W. C. Edwards. Rockland, Ont., in a recent demand for good Ayrshires is steadily growing,


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