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# THE <br> ONTARIO FARMER; 

A MONTHLY JOURNAL OF


VOL. I.
TORONTO, MAY, 1869.
No. 5.

REPORT OF THE COMMISSTONER OF agriculture and arts of the PROVINCE OF ONTARIO, FOR 1868.
[Thind Notice.]
It now remains for us to notice Appendix G, containing the report of "The Fruit Growers' Association of Ontario," with local reports annexed.
The Fruit Growers' Association was formed but a few years age, and has been only one year in connection with the Bureau of Agriculture; notwithstanding, we have here upwards of fifty pages of useful and suggestive horticultural maiter. Asthislarge mass ofinformation was collected in a somewhat hurried manner, and with littlie opportunity for collation and condensation, there are not perhnps that order and lucid arrangement of materials which are desirable and convenient in such reports-a defect which, no doubt, ampler opportunity and experience will correct in the future.
After a statement of the organization and financial condition of the Society, which appears to be financially and otherwise prosperous, holding out reasonable hopes of a long and successful career of usefulness, we have a very interesting aldaress by the President of the Association, W. H. Mills, Esq., delivered before the annual ineeting, held at Hamilton, in September last. Mr. Mills gives a graphic sketch of the origin and progress of the Society, paying a grateful Ezibute to the memory of the late Judge Campbell of Niagara, and Dr. Craigie of Hamilton; recogniring also the valuable services of several yet living, and expressing a conviction that under the auspices of the Bureau of Agriculture,㧶期ociety would devate constantly increasing
energies in cultivating the wide and interesting field which its labours embrace.

The report contains a valuable prize essay on the cultivation of the apple, as applicable to the Province of Ontario, by D.'W. Beadle, Esq., of St. Catharines, the accomplished and energetic Secretary of the Association. Our space will not admit of anything like a synopsis of the essay, but we will try to give our readers an idea of a few of its more prominent points.

Under the head of soil, Mr. Beadle remarks that any ground, which will produce a good crop of corn or potatoes, is suited to the apple. A dry calcareous loam is the best, but clays, when drained and deeply cultivated, will do well for the purpose, and even light sands may be so managed, by mixing manure and other descriptions of soil, as to become adapted to fruit culture generally. Transplanting may be sucsessfully done after the fall of the leaf in autumn, but in this climate experience seems to indicate that spring (before the buds break) is more reliable. Great care is necessary in removing trees, so as to injure the roots as little as possible, and to plant thiem in their new locations, so as to arrange the roots as nearly as practicable in their natural and relative positions. Newlyplanted trees should be carefully staked, and before the heat of summer commences, mulched with coarse litter, to leep the soil moist and cool. Water copiously immediately after planting. Cultivate orchards annually, till at least theycome into bearing. Prune gently in April, bat never late in the fall. Manure liberally every alternate year, and a dressing of lime will be found generally beneficial. Weeds shou'd be carefully kept domn, and every precaution em-
ployed to prevent the young trees being injured either by insects or any other means.

There is no part of the yet settled portions of this Province where the apple cannot be success fully raised, provided proper attention be paid to cultivation, sheltere, and the procuring of young healthy trees of stitable varieties. There are, in fact, but a comparatively few sorts generally adapted to our soil and varying climate. Planting many varieties in one orchard is not to be commended. For family use along the front, the following will be found adapted:--"For Somarer, Early Harvest and Red Astracan, as sour apples, and the Sweet Bough; for Eariy Autuans; the Duchess of Oldenburgh, Gravenstein, Primate, and Jersey Sweet; for Late Autumi and Eariy Winter, the Ribston Rippin, Hubbardstone-Nonsuch, Fall Pippin, and Snow Apple; for Mrd-Winter to March, the R. I. Greening, Northern Spy, Esopus, Spitzenberg, Pomme Grise, and Talman Sweet; for Spring, the Golderv Russet and Roxbury Resset." "For market, the most profitable varieties are Red Astracan, Duchess of Oldenburg, Gravenstein, and Hibbärdstone-Nonsuch, ripening in the order in which they cre named, for near or home market; and for shipping, the R. I. Greening, Bàldwin. Golden Russet, and Roxbury Russet, will yield the largest pecuniary returns." For the colder parts of the Province, the Red Astracan, Duchess of Oldenburgh, Saint Laurence, Snow Apple, Borassa, Pomme Grise, and Golden Fusset, may be recommended. "If there be any spot so chill and inhospitable that these varieties will not thrive, recourse must be had to the still more hardy crabs, of which the Yellow Siberian, Golden Beauty, Montreal Beauty, Transcendent and Hystop Crabs, are the best."

The author insists on the importance of carefully gathering and packing all our more valuable varieties of apples, a practice too much neglected; and gives some valuable advice of a practical character in relation to insect depreda-tions-an important part of his subject into which our limits will not allow us to enter.
The report contains a very interesting paper, full of practical suggestions, on "Hybridizing and-Crossing the Grape," from the pen of Mr. Mills; the'President, who, it is well known, has given special attention to this important
subject. After describing the modus operandij of this somewhat delicate operation, a tabulated statement follows of a niumber of interesting? results obtained by Mr. Saunders, of London (Ontario), from $h_{\bar{j}}$ bridizing quite a number of varieties both of gooseberries and grapes. 3r. Charles Arnold, of Paris, another of our enter. prising horticulturists, has of late years won himself a name by his experiments in this may with grapes and raspberries, and has norf an acre of some dozen new kinds of winter wheas, the results of several years' perseverance in hybridization. Mr. Bishop, of St. Thomas, has succeeded in bringing out a new seedling strar: berry, which promises to add another valuable sort to the already long list of this delicioust fruit. Now, exertions like these are a credit, not only to the individuals more immediately, concerned, but to the Province of Ontario, the comfort and prosperity of whose people thef tend directly to promote.
Mr. Saunders, of London, who is fast earaing a distinguished reputation as an entomologits and horticulturist, contributes a short paper on the "Apple Worm," and another, consistirg of some dozen pages, on "The fruit crop in the vicinity of London during 1868, with remarks on their insect enemies and diseases." These papers abound in information of a kind which should be widely diffused. We would suggest the ds sirableness of publishing these and other papes contained in the report, in a separate and amer. ded form, for more extensive circulation. If sect depredations among our different kindsd fruits have, of late years, alarmingly increased, and it is only by the wide diffusion of reliably information, given in a popular manner, thy the evil can be effectually met. It is evident even from what this report of the Fruit Growers. Association contains, that by proper attentios to soils, the selection of healthy specimens d suitable sorts, and a vigilant look-out for ts early manifestation of insect attacks and inju. ries, many of the evils, now so lovdly complaind of and deplored, might, to say the least, be greatly mitigated, and ultimately, perhaps, 勿. continued and combined perseverance, entirels overcome.
After describing that most destructive beeth tho curculio, and referring to the total or partiv
failures of most of what have, at some time or other, been proposed as infallible remedies, Mr. Sunders romarks that "Mr. Charles Arnold, of Paris, has adopted a method which he finds to be successful. It is to make the soil quite smooth around the roots of the tree, and whiterash it with a thick coating of lime, which very soon forms a hard crust. Should any of the beetles remain in the chrysalis state during the minter (which is very doubtful), they cannot get through the crust, and when the stung fruit falls on the surface, it is not necessary to gather it, since the grub, when it comes out of the plum, Frill die, because it cannot penetrate into the ground. There may be also another reason why trees thus treated should be avoided by the curculio. It has often been remarked that trees overhanging streams of water usualio have good crops, while others around them may fail; the instincts of the parent beetle teacining it to avoid depositing its eggs in a position where the future progeny will necessarily fall into the water tud perish. Might not the glaring white surface of the lime have a similar infuence in deterring the insect from operating in a quarter so unsafe?" The report also contains some useful informafion in reference to the yield and quality of fuit of last year, which, on account of the severe drought and insect injuries, must be regarded ss alling much below an average both as to guantity and quality. This information was Hiefy derived from writers and observers resident in the older settled districts of the Profince, and their communications contain much hich the practical horticulturist will find intersting and valuable. The Fruit Growers' Assofiation has commenced a valuable and much peeded work, and its directors already show an amnestness of purpose, which, if continued, amnot fail to carry it onwards with success. That is now felt to be most urgent is a copious oilection of well-ascertained facts, carefully lollated and generalized. We are pleased to fearn that the Commissioner of Agriculture, at the suggestion of the Directors, has issued In estensive series of interrogations relating to fuit culture in all its bearings, to the Horticulfral and Agricultural Societies of the Province, an connection with his Degartmunt; and it is farnestly to be desired that all to whom appliva-
tion for obtaining information is made, will spare neither time nor pains to render the returns as complete and accurate as possible. The public may therefore look forward to the next reportIor mullh more extended and minute information on this attractive and important pursuit.

## Why do boys leave the farm?

A. variety of answers may doubtless be given to the above question. Among them the following has more truth than poetry in it.
Country homes are, for the most part, unattractive ; and endless toil along with meagre pay are the almost invariable characteristic of farming as a business for boys. The country lad of sixteen goes to the village or tomn, and sees neat, well-painted houses, pretty flowergardens and ornamental shrubberies, finds that the lads of his own age who are at trades, begin work at seven, leave off at aix, and in the evening can dress up and enjoy themselves out of doors, or sit down comfortably and read in doors; moreover they have wages or pocket money under their own control. On the contrary his home, so called, is devoid of beauty within and without. If there is a parlour in the house it is a cheerless place with old fashioned furniture in it, and no music or pictures to make it attractive ; or if a little better.furnished, it is shut up, and only used for a marriage or funieral, or some very unusual, unfrequent occasion. Outside there are no shade trees, flowers. or shrubbery; no neatly_kept door-yard, or spacious barn ; but all is bare, naked and desolate. He rises at break of day, and work begins as soon as he is up. A variety of odd jobs keep him busy until breakfast time. When that meal is over the tug of the day's work must be encountered. It is on until sunset, with a very brief intermission for dinner, and possibly for tea, unless that meal becarnes literally "supper," by being postponed until field work is over. Then there are the ovening "chores" to do up. These finished, he is only too glad to creep awray to his comfortloss dormitory, in quest of sleep. He is clad in rough, slovenly garb, and even his Sunday attire does not encourage self-respect. To crown all, he is very seldom in possession of any money of which he is owner and mastisr.

While we are glad to know that there are many farm homes to which the above picture does not apply, yet it has its counterparts here there and every where all over the land. And sure we are, that if boys are to be kept on the farm, there must be more effort put forth to render life there pleasant and attractive. A constant round of monotonous, unrelieved drudgery is making hundreds of country lads long for the time when relieved of parental control, free to go where and do what they will, their first step in a carcer of, independence will be to abandon farm life and strike out for themselves in some ather line of things.

To remedy this evil let some attention be paid to the ornamental and beautiful, both in-doors and out of doors. Even a log house may be made home-like and attractive by the exercise of neatness and taste. Multitudes of commodious houses built of better materials, are desolate as barns for want of a few ombellishments within and without, that would cost but little time and less money. Paint, whitewash, wall paper, carpets, zugs, some fancy articles, a well-hung picture here and there, a few good periodicals and books, a musical instrument of some lind; shade trees, grass plot, flower bods, climbing roses and other crcepers, neat fences and nice gravel walls;-what is there to hinder any thrifty, energetic farmer from having these things about him? Generally speaking, nothing except his own contompt for them. In some cases the struggle to get the place paid for, stocked, and furnished with implements, forbids much launching out in the directions indicated, but it is no rare thing for people who think themselves too poor to indulge in matters of taste and refinement, to spend in tebacco and whiskoy what, cornbined with a little well directed effort, would completely revolutionize their surroundings, and make home what it should ever be, a chamning spot.
Boye are often overworked, and nothing more effectually destroys youthful exergy than this, in accordance with the old proverb, "all work and no play, makes Jack a dull boy." All young animals were meant by the Creator to indulge more or less in sportiveness, and relaxation is necessary for the highest well-being of both young and old. Be considerate and rea-
sonablo, you that are fathers, and do not expect your sons to be always on the go. Nothing will be lost in tho long run by giving them a little time to themselves, and letting them have an occasional holiday. They will work with more cheorfulness and energy if stimulatod by such indulgences.
Boys should have something they can call their own,- $-a$ bit of land to till on their orn account, a calf, colt, or some sheep to raise, or some regular allowance made them, to cultirate the feeling of independence and self-reliance, In short boy-nature should be studied and wisely managed. Thought, plan, and even sacrifice on the part of parents will be required if they are to be so brought up as to cling to the old home stead, and choose, for its own sake and in prefer. ence to other avocations, life on the farm. Is not the object one of sufficient importance to demand attention and repay endeavour? The young man who forsakes the farm to try his luck in the city plunges into a sea of uncertainty, 8 . scene of temptation, and a whirl of excitement He may go through it all unscathed, but thal danger is that he will fall a prey to evil infly. ences, and have cause for unceasing regret tha he ever turned his back upon the country and the farm.

NINTH ANNCAL REPORT OF THE BOARD OF AGRICULTORE OF VICTORIA, AUSTRAIIA, 1868.

There appear to be twenty-nine Agriculturd Societies in the Colony of Victoria (formeit) known as Australia Felix) in connection with the Board of Agriculture. The public grantio aid to these Societies amounted last year th $£ 4500$ sterling, exclusive of $£ 1000$ for preniuss and experiments, and $£ 750$ to meet the expensa of the Board. The Societies hold annual erli bitions, which are, on the whole, ver, credithbly to so young a Province, hitherto more nuted ia gold-seeking than agricultural pursuits. Pro miuns, varying from $£ 5$ to $£ 20$ each, are gired in the different departments of live stock, ic which great improvements have recently bera effected. Liberal prizes are likemise amardey to grain, vegetables, implements, and machine Special encouragement has been given to grap culture, with very satisfactory results, and lase
quantities of different kinds of wine, of good quality, have been manufactured, with overy prospect of a continued increase. Numerous experiments have been made in preserving meat in a fresh state (beef anci mutton), chiefly with a vier to exportation, and nfter overcoming many difficulties, the prospect for the future appears to be encouraging.
Notwithstanding the frequent droughts to which Australia generally is liable, it would appear, from Mr. Mitchell's report on farm experiments, that root crops are often highly successful in Victoria. He speaks of the sugar beet and common mangel wurzel as being very productive and of superior quality; and in feeding cows, he givos the former a decided superiority over the latter. He contends that protection from cold and wet, in an Australian winter, is quite as necessary for the well doing of milch cows as it is in Britain; and concludes with the following remarks on the use of "Picksley \& Sims' Combined Pulper and Slicer":-"My practice is to dress the roots as clean as possible, puip them down, and mix the pulped mass with moistened chaff and bran ; it is then laid upon a heap and covered with bags, until fermentation sets in, before it is given to the coiss. The eager manner in which cattlo rush to get this food, and the way they lick out the troughs in which they are fod-clean as ever dog licked platteris proof of their liking for it, and the result in mill and cream is pleasing, because profitable cridence of its value." This practice appears to be widely extended, embracing countries of diverse climates; and the few instances of it in Canada that have come to our notice have been of a favourable character.

## HORSE EDUCATION.

Endowed with wondrous intolligence and great docility, no animal which man has occasion to use, is more easily oducated than the horso. In fact he is what man makes him. His faults and vad habits are taught him by his human master. You cannot name an ovil trick which lessens his value for the service of man, into which he has fot been initiated by some one who lias owned .
Horses learn vory quickly, and have amazing tenacity of memory. Hence the importanco
of educating them rightly. One of the most needful things to a farmer, is knowledge of horso nature and horse taming. Very few profession:ll horse-broakers are to bo found in country places, and there is no need of them, for the soience of horse-breaking is vory simplo, and every farmer ought to master it, so as to be able to manage his own animals without dopondence on any one. "Horse-breaking," by the way, is a very unsuitnble phrase, in fact, a misnomer. Tho young horso must bo subjugated, but when once his will is broken, which is a matter of but $a$ few minutes, there is nothing else to break. There are no bad habits or vicious ways to reform. He is like wax in your hands, ready to be moulded, and if he does not become a pattern of equine virtues, blamo the precepter, and not the scholar.

Three requisites protty much express what is needed rightly to educate a horse;-firmness, kindness, and common sense. To know how to blond these, and make them boar on the noble animal, whom you would train to usefulness, constitutos the whole scionce, art, secret and philosophy of horse education. There is nothing mysterious or occult about the thing. It is within the reach of any person possessed of ordinary intelligence.
We have boen led into these remarks in consequence of having lately mado the acquaintance of Piof. Graves, a profossional horse-tamer, who makes a spocialty of curing vicious horses of the bad tricks their stupid masters have taught them, and toaching how to educato the horse. This gontleman is making a tour of our province, temporarily establishing at centra! points a school both for horses and men. We have had an opportunity of stadying his methods and mastoring his secrets, and can give him our . most unqualified endorsement and commendation. We consider him a public benefactor, and would say to all our readers, in whose vicinity Mr. Graves may open a school, by all means take a course of instruction. Prior to our attendanco, we thought we knew a thing or two about horses, but five times the instruction fee would be no inducement to relinquish the additional knowledge thus gained. If everybody who has to do with horses would only leam and, practice what Prof. Graves can teach, our equine
property would bo increased in value at least twenty-five per cent., horsos would be spared a large amount of needless sufforing, and human boings be exempt from risk to life and limb.

Chinese Garden Powder.-This preparation, which is advertised in our present issue, b'y Hugh Miller \& Co. of this city, meets a want very extensively felt, and is highly recommended by Geo. Leslie \& Soun, nursorymen, R. Gutthrey, gardener to the Provincial Lunatic Asylum, and others, as an effectual destroyer of all hinds of insects and caterpillars which may prey upon currant bushes, shrubs, and garden plants.

## EDITOR'S BOOK TABLE.

Emigration to Canada.-This is a pamphlet of 39 pp ., issued by authority of the government of Ontario, for the information of intending Emigrants, and others, in respect to the soil, climate, resources, institutions, free grant lands, \&c., of this province. A large edition of it has been printed, and as the government is anxious to give it a wide diffusion, any parties who have friends in the old country, to whom they wish to send information about Canada, can have copies of it sent on furnishing addresses to the Commissioner of Agriculture.

Mr. T. J. Day of Guelph sends us samples of the following publications :-

Routledge's Popular Reciter.-Edited and selected by J. E. Carpenter, pp. 246. A good collection of recitations, both in prose and poetry. Sent by mail, prepaid, for 30 cents.

Sunday Magazrne, for May.-By mail, at $\S 2$ a year.

Good Words, for May. By mail, at $\$ 1.75$ a year.

Davidson's Temperance Melodist, containing the music and words of above 150 songs, including the temperance compositions of Henry Russell, \&c. By mail, for 30 cents.

Our Frathered Favourites.-A case containing a dozen beautiful coloured engravings of American birds, on cards, with descriptions on the back of the several birds. Eivery lover of birds should heve this package. By mail, for 30 cents.

Our Sohoolday Visitor.-The charm of this popular Magazine consists, in a groat measure, in its excellent variety, and the wholesome manner in which it is presented. In almost any number will be found something adapted to the voriest littlo folk, just lisping thoir "Firsk; Lessons," on up to the fathers and mothers. In; fact Our Schoollay Visitgr is not only a first-class boys and girls' magazine, but a repertoire of good reading for the whole family. The follor. ing is the tablo of contents for May :-

Pluck; or, Steps in tho Lives of the Keene, Family, by Dr. C. D. Gardette, illustrated ; The Mumming Bird and the Bee, by Mrs. Mary P. Necly; The Highway to Success, by J.W. San. born; By the Wayside, by Hattie Herbert; The Glad Surprise, by Eliza Doolittle; The Senses: Among the Animals, by Humanitas; Cruel Jin, by Knuckerbocker, Jr., illustrated; Rambles Among the Insects, by Uncle Samucel, illustrat: ed; The White or Polar Bear, illustrated ; Bio. graphical Shetch of Alexander Clark, A. M., br Prof. J.W. Shoemaker, with portrait; Ourlittle Grey Mouse, by Mrs. C. H. Gildersleeve; On the Look-out, ly Jesse Carroll, illustrated; Kittys Doll, a dialogue for the very little follas, bs Mrs. L. E. V. Boyd; The Three Little Brom Brothers, by Uncle Charlie; Our Stairway, a Repository of Scienve and Pestime. The Other Side, Music, by J. E. Gould.

Daughaday \& Becker, Publishers, 424 Walnut St. Philadelphis, Pemnsylvania. \$1.25 a year American money.

## ©he fixtur.

## AGRICULTURAL RHYMES.

When books and papers were scarce, people read to remember, and rhyme was a great asistance to the memory. Thus many of the sayings of Tranklin's Poor Richard have beea handed down from father to son, and arestill household words among us. The following col. lecticn of agricultural rhymes was made by $\mathrm{D}_{2}$. J. C. V. Smith, formerly of Boston, and published in the New 華ork Tribune:-

If butter churned in morning air.
Is kept in a cooi place with care,
The taste is nice;
But that which showa the butsermilk
Don't sell to those who dress in sillFor any price.

To be in debt
Brings out the sweat.
No half cooked meat Is fit to eat.

A woman who ancezes Ought not to make cheeses; Put her hands in \& muff, Or ever take snuff.

When the wind is east and turkeys gobble, It is no time a horse to hobble; But let him range to catch the breszeShould he be troubled with the heaves.

An ox with broad horns and short glossy hair, Is good for the team, the market, or fair.

One white foot isbad, and two are too many, That horse is best that does not have any.

A farmer without hogs,
But an army of dogs,
Will have more puppies than pork;
For the swill will be lost,
To the husbandman's cost, -
A dog's good for nothing to work.
The slackest farmer, strange to say, Is known for being out of hay.
It does not pay in any way, To milk a cow three times a day.

When chickens roost above the mow, It spoils the hay for horse or cow.

The well-bred daughter for a farmer, A prudent holpmeet and a charmer.

It is no place to set poles, Where moles or mice have dug their holes.

Cobs make no iood for kine to eat,
But they are good for smoking meat.
Pork and beans make muscles strong-
Something farmers seek;
It is a dish to make life long,
When cooked but once a week.
A slovenly dress, a shabby pate,
The fences down, a broken gate,
Pigs in the garden, weeds very high,
Children unwashed-no bacon to fry-
Iots of great dogs and yawling tom cats,
Windows repaired with a dozen old hats,
An empty barn-not a spear of hay,
Cows in the clover, horse run away,
Things sold by guess without being weighed,
Bills coming in and taxes unpaid-
Pipes and tobacco-whisky-neglect,
Drag in their train, as we might expect,
All sorts of trouble to fret away life-
But worst of the whole, an unhappy wife.
Many estatos are lost in the getting,
Since men have forsaken hewing and splitting,
And women their sewing and knitting.

> A mackerel sky-
> The wind will be high,
> Then bring in the grain,
> Close by there is rain.

A smoky chimney may be cured,
A scolding woman not endured,
A farmer's wife, like cream or' curd-
Is to be seen but seldom heard.

If you would thrive,
Be up by five;
For there is health
And certain wealth,
Whon at the plough,
Or milking cow.
A farmer at home should be found, And often looking at his groundInspecting fields, repairing fencoFor dollars come by saving pence.
Clear the soil from moles and slugs,
Prune the trees-keep off the bugs, Then fruits and melons, rich and fair, Will recompense for all your care.

Rutabaga, carrots and beets,
Improve the character of meats ;
They make good beef, and quicker too,
Than any other feed will do.
At the farmer's cost
Is an early frost.
Exercise reason-
Harvest in se8son.
Of all the crops a farmer raises, Or capital omploys,
None brings such comforts and such praises, As a crop of girls and boys.

Toronto, 10th March, 1869.

## To the Editor of the Ortario Farmer.

Sir,--When I wrote you last (February, 1868,) enclosing a very discouraging balance sheet for 1867, I promised, if spared to reap another harrest, to send you the results. That promise I now beg to redeem, and herewith forward you my balance sheet for 1868. I also send;you my minute details of the gross amount of farm produce raised and acreage cultivated by mo in the past year.
As you are aware, 1868 has on the whole been a very unfavorable year for farmers. At any rate, on the heary undrained clay soils the extreme drought of last summer told most unfavorably, especially when the crops were sown late. In addition to the deficient yield, we had, with the exception of barley, low prices for all our produce, at loast, those of us who did not sell until the year turned, realized poor prices. Those who sold in the fall, averaged fully 20 cents, (twenty cents) per bushel more, yet, , notwithstanding these very serious drawbacks, my balance sheet shows $\$ 26068$ to the credit, not a large profit certainly, but still under the circumstances as much as I expected.
I summer-fallowed 10 acres last year and have it now in fall wheat, of which 22 acres are in English wheat, from seed that I imported last: year. I hope it will esceppe being winter-killed if so, taking all into account, won't I have good reason to thank God and take courage?

I duly received the first number of the "Ortario Farmbr," and think the change in size and general arrangement, groat improvemonts over those of the old quarto sheet. I beg to hand you one dollar, my subsicription for the proment year, and ahall be glad to havo the "Ontario Farmes" sont regularly to my address, which I onclose. I wish yout overy success with the new undertaking, and if $I$ can procure any subscribors to it I will gladly do so.

I mm , Sir, yours truly,
ULMUS.

> 1868. Totar Farm Produce raised and acreage cultivated by "Ulmos."
> Daire.

Yield from 4 Corrs, 14240 pints milk at 1 c .
$\$ 14240$
332 lbs. butter at 10 c....................... 3320

| oereacs. $\$ 77560$ |  |  |  |
| :---: | :---: | :---: | :---: |
| 10 | Acros | Fall Wheat yielded 166 bush at 8105 | \$174 30 |
| 10 | " | Spring Wheat yielded 75 bush at 95 c . | 7125 |
| 14 | " | Barley yielded 135 bush at $\$ 120$. | 16200 |
| 2 | " | Peasyielded 20 bush at 70 c ... | 1400 |
| 12 | " | Oats yielded 6 bush at 50 c c.. | 300 |
|  |  |  | \$424 55 |



Hay.
5 " Timothy and Clover yielded 10 tons at $\$ 800$.
$\$ 3000$
orciyard.
1t "
10 " Summer Fallow.
60 ، 761 bushels
flocr.
7 Fleeces yielded 30 lbs woul at. 15 c
$\$ 585$
$\$ 77585$
Dr. Farm Balance Sheet for 1868.
1868.

To Taxes for 1867
"Blacksmith work $\qquad$
"Ropairs raggons, implements, \&c.
$\$ 1101$
3859

To Manure.......................................... 82105
"، Seed for Farm........................................... 31
" " Garden............... 1382
 produco

3414
$\begin{array}{llrl}\text { "Thrashing Machine } 2 \text { days... } & 14 & 00 \\ \text { "S Sawing } & \text { " } & \text { ". } & 00\end{array}$
" Hardwaro..................................... $99_{9}$
" Veterinary Surgeon and Medicines..
" Lumber.
" 10 per cent. depreciation on Implements, first cost $\$ 276$ 90............ 2769
"S Sundry petty expenses.................... 5 t

- Balance gained carried down........... 271 Q
§988 53
Cr.
Contra.

1868. 

By gross value of Farm Produce raised in 1868 as per stock book
" Garden produce sold in 1868
" Cordwood

" Present value of stock...... | 8548 |
| :---: |
| 75 |
| 75 |

Used for home consumption... 7500

62375
Deduct.
First cost of stock................. 525 S2
Gain on Stcek................................ 9743
Sundry small amounts
Discount....................... \$4 49

- Eggs .......................... 255

Sundrios........................ \& 29
1133
-988 30.
1869.

Jan. 1st, By balance down.
$\$ 2616$

## PLATT'S SPRING WHEAT CONDEMNED.

Mr. Edrof,--In your last issue of the Ontario Farmere, Platt's spring wheat (said tw. be midge proof) is again recommended to the farmers of this Provinco. Allow me, througs your journal, to caution the farmers of the western section against putting any faith what ever in the aforesaid wheat as midge prod Seeing it highly recommended by the Globe if 1867, a number of farmers in this section resoled on giving it a trial. In consequence of thix resolution, and confiding in the statements d the Globe, somewhere in the neighbcurhood of: thousand bushels found its way to these parts;
but I doubt if there be any who having once tried it will use it a second time. Instead of boing what it was said to bo, it lias proved a complete failure-some of it turning out so worthless that a groat many let the straw rot on the ground, whilst others who reaped found it did not pay for thrashing. Like many others, thinking it would be a good change, I procured 12 bushels at a high figure and planted on eight acres, of sood soil, which yiolded twelve bushels to the acre, but had I sown as early as my neighbours, I believe it would have beon as completely destroyed as theirs was. It may have have been in Northumberland County all that the Globe represented, but if it was, they cannot have had such a thing as midge in those parts. Hoping that the abovo warning may not be neglected by those who intend using Platt's so-called midge proof this season.

> I romain yours truly,
> Georgs Robson.

Lendon Township, April 27, 1869.

## FARM GLEANINGS.

A correspondent of the Journal $c s$ the Famn says he raised 1200 bushels of sugar beets to the acre, in soil not over six inches depth.
In Wisconsin, if a farmer plants trees at the roadsides, ne is exempt from working on the highway. Any one injuring these trees is fined.
The Rural New Yorker tells a correspondent that it will pay him to pay ten dollars a ton for plaster and haul it fifteen miles to apply to newly seeded sandy loam soil.
The Dutch are talling of draining the Zuyder Zee, which it is computed that they could do with steam-power in tiventy-one months. The land reclaimed would amount to 300,000 acres, representing in value a clear profit of £10,000,000.
A machine has been invented in Califormia, which, it is said, has cut, threshed, cleaned, and stacked the wheat from twenty acres in ten hours, with only three men to work it. Hearth and Home from which we copy this item doesn't state the yiold per acre.
1 correspondent of the New England Farmer says:-" "A farmer can undoubtedly live without an agricultural paper. So also can he live, and not grow a sheep, or a hog, por a horse if he keeps oxen, or without oxen if lie leeps a horse. Yet good farmers do not believe they can afford to be without sheep, or hogs, or horses, or oxen. Nor do I believe they can afford to be without an agricultural newspaper any better than without either of the above mentioned useful antimals."

Hoa. Levi Bartlett writes at length to the Country Gentleman in favour of applying and evenly spreading manure in the fall on ground to bo ploughod in the spring. This plan is also recommended by the editors of that paper.
One very common effect of tho application of any fertilizer, which contains a large proportion of the phosphate of lime, is to induce the apparently spontaneous growth of white clover. Wood ashes rppear to have this effect, because they contain a large amount of phosphate of lime.

During last year there were in the United Kingdom, $43,652,000$ acres under cultivation, of which 11,659,000 were devoted to cereals, 4,865,000 to vegetables, $5,690,000$ to clover and rotation grasses, and $22,164,000$ to permanent pasturage. In every 100 acres in England, 42 aro pastura, in Wales 56 , in Scotland 23, and in Ireland 64.

A writer in the Germantown Telegraph concludes, aftor having had three years' exporience with storing manure in the cellar of a barn and under the animals, and the hay and grain stoned in the barn, and when special care was devoted to ventilation, that it is a very objectionable arrangement, and unhesitatingly condemns it as very injadicious.

In future fairs are to be held in the north country as follows : At Walkerton, on the third Wednesday of each month, and at Clifford, Teviotdale and Bosworth on the Thursday, Friday and Saturday following. The buyers will not attend any other fair on the Elora and Saugeen road. The first fair was held in Clifford, on the 29th of April, Teviotdale on the 30th, and at Bosworth on the 1st of May.
The Legislature of Michigan has, by a.recent Act, fixed the price of the Michigan Agricultural College lands, mostly in the Grand Traverse region, at three dollars per acre, except for such as aro principally valuable for timber. In the purchase of these lands, one-fourth the purchase money is to be paid at the time of purchasethe balance to be paid at option of purchaser, he paying seven per cent. interest.

A correspondent of the Country Gentleman counted the number of clover seeds in a cubic inch, and estimated that if he had counted a whole bushel the number would have equalled $27,000,000$. As there are 43,000 square inches in an acre, he found that one peck would furnish over one seed to each square inch of ground. His estimates showed that a trifle over one pint of seed to an acre would give ten plants to the square foot. In seeding his land he waits until all danger from freezing and thawing is passed, and has had good success with less than four quarts per acre, sown after May 1.
Reaper triar in Hungary.-There is to be an international trial of reaping machines, under the auspices of the Royal Hungarian Board of Agriculture and Trade, and projected by the Agricultural Society of the County of Wieselburg at Ungarisch, Althenburg, from the 5th to the 10th of July, 1869.

Davxd Drokson says: "English farmers formerly used ten hundred pounds of ground bones per acre to grow a single crop. Experiments proved that two hundred pounds dissolved in acid produced the same effect, and. secured a saving in outlay of seventy per cent."
Liquid Manure Tanks. - We take the following from thie Western Rural: "As liquid manure is exceedingly beneficial to all yegetables, plenty of it should always be available, and without a liquid manure tank this camnot be obtained. For large gardens, a tank should be built exactly like a cistern; the bricks being closely cemented at'the bottom, sides, and roof, to prevent the liquid from percolating through the soil, and also to keep surface water from entering the tank. The liquid should be conveyed to the tank by tile-drins from the stable, byre, kitchen, \&ic., and may be taken out by a pump. In small gardens a hogshead or large cask of any kind that will hold water may be sunk in the ground, and will answer on a small scaie. In this, soot, guano, \&c., may be converted into a valuable manure, by dissolving them in a suitable proportion of water. Manure is much mure readily taken up by the roots oí plants when in solution than when solid. In fact, solid manure has to be dissolved before it can enter the sponge-like mouths of the roots.

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## AYRSHIRE CATTLE.

The cows of this breed have for more than a century occupied a foremost rank among British cattle for dainy purposes, and the more recent improvements that have been effected in the breeding of cattle generally, have by no means lowered their position in this important respect. The origin of this valuable breed, like many other matters of a similar character, is involved in much obscurity; and any speculations with a view to throw light on so intricate and difficult a subject, would be more curious than useful. It is more than probable that, after the middle of the last century, the old Teeswater breed was more or less used in the south-west parts of Scotland to improve the native stock ; and there is also reason to think that Alderney blood was subsequently introduced, which produced a decidedly beneficial infiuence as regards millking qualities. Even to the present day a striking similarity exists between the improved Aysshire cow and the Alderney or Jersey, both in external conformation, and in milhing qualities. As eariy as the latter part of the past century, and particularly during the greater portion of the $\left.\right|_{\text {w. }}$
present, Ayrshire breeders have taken great pains by careful selections and the judicious in. troduction of fresh blood to develope the mill producing power, for which their favourite cattle are now so widely and deservedly distinguished. A recent writer facetiously remarks in reference to their early history :-"Very probably the blood of 'the cow with the crumpled horn'that tossed the dog, that worried the cat, and all that-viz., the Holdernesse or the Alderney cow, had something to do with the process of 'natural selection.' Crumpled horns, however, are now looked upon as a grave defect in Ayrshires. Horns are merely dangerous ornaments, and, as breeders well lonow, can be moulded to. any form to suit the taste of the times."
The qualities of the Ayrshire cow, as described by Mr. Aiton, who had much exnerience as a practical breeder and close observer, aro as fol-lows:-"Tameness and docility of temper" greatly enhance the value of the milch corr. Some degree of hardiness, a sound constitution, and a moderate degree of life and spirits, are qualities to be wished for in a dairy cow, and what those of Ayrshire generally possess. The most valuable quality which a dairy cow can possess is that she yields much milk, and that of an oily, or butyraceous, or caseous nature, and that after she has yielded very large quantities, of mill for several years, she shall be as valuable for beef as any other breed of coms known, her : fat shall be more mixed through the whole fiesh, " and she shall fatten faster than any other."
With all due deference to so high an authority, we must express a dissent from the last condition as applicable to the Ayrshires, or, indeed, to any other breed that is highly distinguished for dairy qualities. Although the Ayrshire cow, when dry, can be fattened and mado to produce . goed quality of beef, the process generally is longer and more expensive than it is in the case of Durhams, Herefords, Devons, Galloways, or any other breed characterized for its meat producing power. The improvements, however, that have of late been effected in the Ayrshires, Alderneys, and other dairy stock, have unquestionably increased their feeding: qualities after they become dry. Cows of any breed. while yielding a large supply of milk, are: wown to be generally low in flesh, and
within certain bounds the fattening and milks giving properties must be regarded as antagonistic, and are raroly combined, in any marked degree, in the same animal.

A committee was appointed some dozen years ago by the Ayrshire Agricultural Association to fis the points in Ayrshire cattle which should be held in most importance, as indicating superior quality ; and aftor careful inquiry and consideration, they issued the following re-port:-
"Head short, forchead wide, nose fine between the muzzle and eyes, muzzle moderately large, eyes full and lively; horns wide set on, inclining upwards, and curving slightly inwards.
"Nyck long and straight from the head to the top of the shoulder, free from loose shin of the under side, fing at its junction with the head, and the muscles symmetrically enlarging towards the shoulders.
"Sgoulders thin at the top, brisket light, the whole fore-quartexs thin in front, and gradually increasing in depth and width hackwards.
"BACE short and straight; spine well defined, especially at shouldors; the short ribs arched, the body deep at the flanks, and the mill veins rell developed.
"Pervis long, broad and straight; hook bones (ilium) wide apart, and not much overlaid with fat; thighs deep and broad; tail long and slender, and set on level with the back.
"MHLK-VESSEL caprcious, and extending well formard; hinder part broad and firmly attached to the body; the sole or under surfaco nearly level. The teats from two to two and a half inches in length, equal in thickness, and hanging perpendicularly; their distance apart at the sides should be equal to about one-third of the length of the vessel, and across to about onehalf of the breadth.
"Iegs short, trie bones fine and the joints firm.
"Skin soft and elastic, and covered with soft, close, woolly hair.
"CoLoURS preferred are brown, or brown and mhite ; the colours being distinctly defined."
The ebove "points" are, no doubt, the results of mide and careful observation and combined experience; and they will materially assist in forming a correct conception of the modern type of an improved Ayrshire. We agree, however, in the remark "that a coss which gives the largest return in butter or cheese, upon equal feeding, and for a whole season's millsing, is the beat millch corr, whatever her 'points' may be." A capacious, well formed and well set udder, docility of temper, and a tendency for holding on in milk, are the principal qualifications that should guida a purchaser in quest of a good
milch cow. It is universally admitted that Ayrshire cows give a large quantity of milk of excellent quality, in proportion to their size, and the amount of food consumed. "Healthy cows, on good pasture, (observes Professor Low), will give from. 800 to 900 gallons in the year;" and there are several instances on credible record of considerably larger yield than this. The average, however, even in the best grazing districts of the west of Scotland will come considerably below this standard; and the produce of milk, like other productions of the farm, is found materially to depend on a number of different conditions. The old adage, that "the cow gives her milk by the month," is everywhere and at all times applicable; and next to liberal feeding, ranks clean milking, suitable shelter, and general attention to order and cleanliness.

Ayrshire has long been celebrated for the making of Dunlop cheese, and the manufacture has of late years been both extended and improved. A number of the larger iarmers, keeping from thirty to forty cows each, have effected saveral imporiant improvements in dairy management, by which a quality of cheese equal to the well known "Chedder," oi the south western counties of England, is now produced; and, in fact, not to be distinguished from it.

The illustrations which accompany this article, taken from the life by an eminent and well known artist, Mr. Page, of New York, will give the reader a correct idea of the most advanced type of this celebrated breed; handsomer specimens of which it would be difficult to find even in Ayrshire itself. We would recommend a careful comparison of the cuts with the preceding table of charactenistic points. Although Ayrshire cattle are well known in some parts of Canada, where they have been bred and found adapted to our soils and climate for many years; yet it must be acknowledged that we have but comparatively ferr specimens of really superior merit. This arises from inattention to the importation, in the first instance, of really superior animals, as representing the latest improvements; and next, to want of care and judgment in breeding, and general management. The breed is evergwhere naturally hardy, and would be found, in all probability,
well adapied to the eastern and northern.sections of the Province, whero dairying, particularly on calcareous and argillaceous soils, might be profitably and oxtensively conducted. As the production of cheese, in many parts of the Province, is annually increasing, and thorefore
becoming of more importance, greater attention given to the breeding and management of Ayrshire cattle would, in all probability, be attended by increased profits in this department of rural economy. We commend this matter to the best consideration of our dairymen.


CRUELTY TO ANIMALS.
A. Bill has been introduc ed into our Dominion Legislaturo by the Eon. Mr. Cainpbell, for the praiseworthy object of proventing cruelty to animals. The gist of it is contained in the first two sections, which are as follow :
"1. Whosoerer wantonly, cruelly, or urnecessarily beats, binds, illtreats, abuses or tortures any Horse, Mare, Golding, Bull, $0 x_{1}$ Cos, Heifer, Steer, Calf, Mulo, Ass, Shoep, Lamb, Pis, or other cattle, or any poultry, or any Dog, or Domestic Animal or Bird, or whosoever driving any cattle or other anima?, is bs negligence or ill-usage in the driving thereof,
the means whereby any mischief, damage or injury is done by any such cattle or other animal, shall, upon being convicted of any or either of the said offences befurc any one Justice of the Peace for the District, County or place in which the offence has been committed, for every such offence, forfert and pay (over and above the amount of the damage or injury, if any, done
thereby, which damase or injury shall and may be acertained and awarded by such Justice,) such a sum of money not exceeding \$13, nor less than $\$ 1$ with costs, as to such Justice seems meet.
2. The offender shall, in default of payment, be committed to the Common Gaol or other place of confinement, for the district, county, or place in which the offenco was committed,

there to be imprisoned for any time not exoeeding fourteen days."
The above, we hope, will become lant, and bo stringently enforced. Man's inhumanity to the brute creation is a crying eril, that cannot be too rigorously checked.

Pounts of Alderney Cows.-The butter-tub is more eloquent than even the "adder tongue" of an Alderney cow. I have all colors in my herd--grey, yellowr, brown, and almost black; and all these colors spotted with white. Some have mealy noses, and as mnny have not; some
were imported, and others were bred here ; some are very good, and others are only so-so. The iast cows I have are yellow fawn; my experience with this and with other breeds leads me to favor that color, and I happen to know that it is also the choice of good judges in the Channel Islands. I have an imported cow which took the first prize at the Show of the Royal Agricultural Society, a few years since. She is a choice malker, a light yellow fawn in color, with a skin like an orange. It will be a pity if breeders lose their butter, an a consoquently their bread, by any unfounded theory about a black tongue or a white tail.-Cor. Co. Geni.

## SPIING SHOW OF THE ONTARIO POULTRY ASSOCIATION.

The fourth exhibition of poultry, under the direction of the above Association, was held in the Agricultural Hall, in this city, on the 21 st and 22 nd 'ult. It was quite equal in most particula?s to its predecessors, and in some respects was superice to any former show of the kind. The arrangements were adminably made, and the rules faithfully carried out. The judging was completed before spectators were admitted, and no birds ticketed with their owner's names until the prizes had been awarded. Colonel Hassard and Mr. Finch acted as juclges, and we must accord them great credit for the mamer in which they discharged their duties. Their decisions gave satisfaction to all persons who were cumpetent to furm an opinion upon them, and took the trouble to compare the rival birds with the "standard of excellence," according to which the honours of the Association are bestowed. There always will be disappointed exhibitors and superficial critics, who make the office of judge a thankless one by their contemptible censorship, and some of this class were pleased to air their folly and vent their spleen in some of our newspapers, which, haviag no person conversant with poultry matters on ìeir editorial staff, are toc easily gulled by interested complainants. It were too much to expect infallible correctness in any judges, but patient scrutiny, careful comparison of points, and strict impartiality, are the chief judicial virtues, and they were certainly displayed at the recent poultry exhibition.

The prize list narrates the story of the show pretty fully, and leaves little mure to be said. We may observe, however, that the Buff

Cochins, Dark Brahmas, Grey Dorkings, Red Games and Hamburgs, were specially excellent ciasses; the Light Brahmas were scarcely so good as at the previous Shows of the Association; the Black Spanish were not so numerously represented as wo have seen them, but the specimens were uncommonly fine; the Golden Polands wero in advance of any previous shorr; the Sebright Bantams were below par, the wellmarked birds being beyond the standard weight, and the small sized birds poorly-marked; the ducks fair; the geese few as to number and very ordinary samples; and the pigeon display vers good, considering that Col. Hassard's fine collection was conspicuous only by its absence. Two pens of the new French fowls were shom, one containing Creve Cœurs, and the other Houdans.

We are glad to learn that the attendance of visitors was good, and that pecuniarly, as well as otherwise, the exhibition wes a success. The Association deserves, and we trust will hare, a long career of usefulness and prosperity.

## PRIZE LIST.

Class 1-Cochin China (buff or cinnamon)-12 entries 1st prize-St, George Sangster, Avenue Road, York ville; 2nd prize-S2, R. Smith, Front Street, Torontw; highly commended, John Peters, London; commended, A. McLean Howard, Toronto; commended, J. H. Feeley, Hamilton.

Class 2-Cochin China (white or any other colour)-1 10 entries- 1 st prize-S4, J. I. Feeley, Hamilton; 2nd do-\$2, J. H. Feeley, Hamilon.

Class 3-Brahma Pootra (dark) - 10 entries-1st prize -S4, Sheldon Stephens, Montreal; 2nd do-s. H. M. Thomas, Brooklin, Ontario; highly commended A. McLean Howard, Toronto; commended, Sheldua Stephens, Montreal.

Class 4-Brahma Pootra (light)- 16 entries-lst piize-S4, Joseph Lamb, London; 2nd do-\$2, Jospph Lamb, London.
Class 5-Dorkings (Coloured)- S entries-1st prict - - St, Joseph Lamb, London; 2nd do-\$2, John Borua London; highly commended, John Peters, London; commended, Joseph Lamb, London.

Class 6-Dorkings (white)-6 entries-1st prize- $-\frac{14}{}$, Joseph Lamb, London; 3nd do- $\$ 2$, John Bogue, Lor don; commended, John Plummer, junr., London.

Class 7-Spanish-8 entries-1st prize, S4,T. Shires Birchall, Toronto; 2nd do., \$2, 'T. Shivers Birchall, Toronto; highly commended, T. Shivers Birchall, Toronto; Jobn Peters, J,ondon.
Class 8 -Game, black breasted and other reds-entries-1st prize, $\$ 4$, James Beswich, Toronto; 2nd do., \$2, John Hendrie, Toronto; highly commended, James A. Ellis, Toronto; John Plummer, junr., Lon: don; John Peters, London; James Beswick, Toronto; Joseph Lamb, London; whole class commended.

Class 9-Game Duckwing, greys and blue-15 entries-1st prize, $\$ 4$, John Bogne, London; 2nd da, S2, James A. Ellis, T'oronto; Eighly commended, R.C. Smyth, Brantiord.

Cliss 10 - White, Pile, and cther variety- 9 entris
Given by A. MacLean Howard, Esq-1st prize, St

Howard, Toronto; highly commended, A. McLean Howard, Toronto; W. A. Schoenan, Glenlyon.
Class 11-Hamburg, (Gold or Silver Pencilled)-11 entries-1st prize, \$4,Joseph Lamb, London; 2nd do., §2, A. McLean Howard, Toronto; highly cominended, Jonas S. Barnes, St. Thomas. Commended-George Brown, Toronto.
Class 12-Hamburg, (Gold or Silver Spangled)-9 entries-1st prize, S4, J. H. Fceley, Hamilton; 2nd do, S2, A McLean Howard, Toronto.
Class 13-Polish (Gold or Silver)-14 entries-1st prize, \$4, James McGrath, Toronto; 2nd do, \$2, Jos. Lamb, London.
Class 14 -Polish (any other variety)-4 entries-1st prize, \$1, George Brown, Toronto ; 2nd do, \$3, Joseph Lamb, London. Highly commended (hen)-Joseph Lamb, London.
Class 15-Houdans (Creve Coeur, La Fleche and any other French Fowl)-2 entries-1st prize, \$4, Joseph Lamb, London; 2nd do, \$2, Joseph W. Leslie, Toronto.
Class 16-Bantams (Gold or Silver Lace)-8 entries -1st prize, $\$ 4$, James Millington, Toronto; 2nd do, \$2, James Millington, Toronto.
Class 17-Bantams (Game and any other variety)8 entries-1st prize, (given by Wm. T. Goldsmith, Esq., St. Catharines), \$4, Captain R. Gore, R. A., Toronto ; ind do, \$2, A. McLean, Howard, Toronto. Highly commended-John Peters, London ; commended, Captain M. O. Miller., Toronto.
Class 18 -Turkeys (any variety)- 4 entries-1st prize, \$4, John Peters, London; 2nd do, \$2, Joseph Lamb, London.
Class 19 -Ducks, Aylesbury-4 entries-1st prize, \$4, Josèph Lamb, London: 2nd do, John Peters, Liondon. Highly commended--Joseph Lamb, London.
Class 20-Ducks, Rouen-4 entries-1st prize, $\$ 4$, John Peters, London; 2nd do, $\$ 2$, Joseph Lamb, London.
Class 21-Ducks (any other variety)-9 entries-1st prize, S4, Joseph Lamb, London; 2nd do, $\$ 2, G$. P. Sangster, Yorkville.
Class 22-Geese, (White)-3 entries-1st prize, $\$ 4$, WJohn Bailey, London; 2nd do, \$2, Joseph Lamb, Lrondon.
Class 23-Geese, (Coloured)-4 entries-1st prize, S4, Joseph Lamb, London; 2nd do, S2, Joseph Lamb, London.
Class 24-Any other variety of fowl not mentioned in above classes- 9 entries-1st prize, $\$ 4, J$. W. Hestor, Rosedale, Toronto ; 2nd do, \$3, MI. W. V. Robert son, Tcronto; $3 r^{7}$ do, $\$ 2$, James Millington, Toronto. Highly commended-A. McLean Howard, Toronto.

## pigeons.

Birds of any are to be shown in pairs, except Carriers and Pouters.
Class 20-Carriers, (Cocks), any colour- 2 entriesprize, \$2, John Johnson, London.
Class 26-Carriers, (Hens), any colour-2 entriesJrize, §2, John Johnson, London.
Class 27 -Pouters, (Cocks), any colour- 11 entriesprize, S2, John Johnson, London. Very highly com-mended-Joln Hendrie, Toronto. Highly commend-fid-John Johnson, London. ; John Hendrie, Toronto; James MrGrath, Toronto.
Class 28 -Pouters (Hens), any colour-9 entriesSrize, §2, John Hendrie, Toronto. Highly commendIV. John Johnson, London; Join Hendrie, Toronto; W. John Bailey, London. Commended-John John5on, Iondon.
Class 29-Tumblers, any variety-20 entries-Ist Mize, S3, James MIcGrath, Toronto; 2nd do, \$2, Jתs. ICGrath, Toronto ; 3rd de, S1, John Johnson, Jonton. Highly commended-W. John Railey, London; John Johnson, London.
Class 30-Jacobins or Frills, any colour 6 cntriesist prize $\$ 2$, John Johnson, London; 2nd do, \$1, David Dsvis, Toronto.
Class 31-Fantails, any colour-5 entries-1st prize,
\$2, Wilkin B. Butler, Toronto ; 2nd do. \$1, George P. Sangster, Avenue Road, Yorkville.

Class 32-Barbs, any colour-2 entries-1st prize, \$2, John Johnson, London.

Class 33-Turbits, any colour-4 entries-1st prize, S2, John Johnson, London ; 2nd do, S1, David Davis, Toronto.

Class 34-Trumpeters, any colour-4 entries-1st prize, $\$ 2$, W. John Bailey, London; 2nd do, W. John Bailey, London.

Class 35-Any other variety of Pigeons not mentioned in the foreroing classes- 4 entries-1st prize, $\$ 2$, first prize withheld; 2nd do, $\$ 1$, Isaac Davis, Toronto.

## DENTITION OF ANIMALS.

A correspondent of the Mark Lane Express says that the dentition of animals, as a test of their age, now excites considerable interest among English farmers, on account of the disqualification of Lord Radnor's pigs at the Birmingham cattle show. Mr. Owen Wallis, of Mentone, states that on ono occasion, when drafting his yearling ewes, about the end of September or begining of October, he found one with all its lamb teeth undisturbed, and showing no signs of puiting up permanent ones; while many others of the same age had four broad teeth, nearly fully developed. As these sheep had all been bred alike, and fed alike and the one in question was perfectly healthy and about an average size, he wishes to have the great difference in their dentition accounted for by veterinary professors. That they are generally correct in their decisions he has no doubt, but he thinks that the case described tends to show that dentition is not always to be relied on as an unfailing test of age, and as such great discrepancies occasionally occur, minuto ones may do so frequently, and injustice may be done to exhibitors by disqualifying animals on this account.

## WORKING BULLS.

A writer in the Mari-Lane Express, advocates, from considerable experience, the practice of working bulls. After describing his mode of breaking, he says :-"Indeed, it is remarkable how soon a surly bull is taught temper and obedience. A man of good common sense, courage, and firmness will soon make the roost surly rascal tractable and obedient, providing he is not actually vicious. A surly, ill-tempered, vicious bull is jost fattened to be slaughtered; no danger caght to be incurred by teaching him his power for evil. I have said we always work the bull in the bridle, collar, and cart-saddle. I don't know a better course. The bridle if a common cart-horse bridle, made to fit the head of the bull, being, of course, la.ger at every point; the frontiet and blinkers rather out of proportion, lerger; the head-strap made to
buckle. The collar and hames are peculiar in make and form, both being made to match each other. The collar is nearly 3 feet long, opening at the throat, whre it is fastened by a strong strap, and buckle; it is mado very full, and is well stuffed or padded on the top (which in the horse collar is the bottom, being, as it were, worn by the bull the wrong way up), so as to form a good firm cushion, by which the chief lift or pull of a bull is given. The sides of the collar are also more sinfied or padded than the ordinary horse collar, which, of course, makes the whole collar: much broader, as well as longei:"

## LIVE STOCK GLEANINGS.

It has been estimated that the plague killed two hundred and two thousand cattle in England.

One thousand English sparrows have arrived in Philadelphia, and will we let loose in the public squares of that city.

A Veterinary Surgeon died at Springfield, Ill., April 4, from the effects of a bite from a glandered horse he had treated.
A company, with $\$ 100,000$ cepital, is being organized in Missumi for the purpose of importing and breeding all kinds of stock.
The aqueous augmentation of the lacteal fluid is henceforward to be accounted a fineable offence in the State of Massachusetts.

An exchange salys: "If a horse alflicted with the colic, be drenched with a preparation of chlorine and permaganic acid, a cure will be affected."

A ewe in Orange, N. H., gave birth to a black Inmb a fortnight ago, which shortly died, and a day or tro since brought forth white twins, which live and thrive.

It appears that the cattle plague is still widely difused in Tastern Elurope, very little diminution having taken place in the number of cases, in either Galicia or Hungary.

There is said to be considerable distress prevailing in the neighborhood of Mrount Forest amongst the farmers for want of feed, hay being scarce and selling at $\$ 25$ per ton.
A novelty was introduced atthe recent Barrow in Furness Dog and Poultry Show in the shape of prizes for different kinds of cats. 'The winner in one class weighed eleven pounds.

Small pox in sheep is still very far from being externinated in many parts of the continent. It is admitted that the malady prevails in two or more of the provinces of Holland.

A correspondent of the Ohio Farmer thinks shorts fed to milch cows make more milk than clear meal, and that ground oats are better than either, but corn meal and shorts mixed make mill. He has tried potatoes with moderate success. Of ail the roots he has tried, he thinks sugar beets are the best. After trying pumphins fairiy he could see no increase of milk from their use but believes it was alittler xicher.

It is said that if a shoep or calf is covered with a rubber or leather spread, or thick blanket, and tobacco smoke made under the covering, every tick and nit will be destroyed in half an how or less.

Mr. Joseph Harris writes to the American Agriculturist that one of the most convenient methods of reviving chilled lambs or pigs is to bury them up to their hoads in a barrel of steamed chaff or stiaw.

The Rural World suggests, in view of the dif. ficulty in getting pure annotto, that the besi possible coloring matter for cheese, would be introducod into the dairy, say one Alderney to every twenty cows of other breeds.

A recent number of the Farmer (Scottish) sars: that Mr. Fenton Kinalty, near Forfar, has thres eves which last week brought forth the extraor. dinary number of fourteen lambs; two of them had four each, and one six. All the rest are living and thriving.

The late season has been hard on horses in tha district of Nipissing. Mr. Thomas McDonald, who arrived in Pembroke last week from Deur Ririeres, losi his own horse on the trip, and about seventy miles from Pembroke he counted twenty-five dead horses on the road.

Mr. Shepherd of the North-western Poultr Assuciation has purchased a fine lot of Dart Brahma fowls from Mr. Varley of the 13th Hussars. The greater part of these birds were re cently imported from England. The prico pail was $\$ 120$ for twelve fowls. We are sorry they have gone out of Canada.
The Galt Reporter notes an auction sale at Ifr. Willian Sterling's, in Dumfries, on Tuesclay of last week. Prices ruled very high. Three good common cows sold for \$180-the highest on: going for $\$ 67$. The shecp also ruled high-erres in lamb selling as high as $\$ 11.50$ per pair. Pras -roul brood sow, \$27; shoats, $\$ 10$ each. Horsä. sold well, one 4 year old, "Golden Hero," m: bringing \$136. Implements of all kinds brougk very liggh figures.
Hay and oats were still kept up at a high pris last week in Pembroke. Observer says the for: mex was $\$ 60$ a ton, and the latter $\$ 1.10 \mathrm{pa}$ bushel, and scarce even at that figure. Famming coming into town find it cheaper to buy brad instead of oats, for their horses. A sufficit: feed of bread may los had for about 17 cenis while the same of oats would cost 40 cent The difference is in favour of the staff of life it more ways than the cost, for those who feed i say the horses prefer it.
Sale of Stoce.. - Mir. Joseph Kirby, of Milloz Ontario, has sold his eight months' old Shortherf bull calf "Duke Malden," by "Duke Marlbs: ough," 5587 A. H. B., out of "Diadem," sirellth. "Butterfly," 91 C.H.B., to the Anderdon Agis cultural Society. The same society has also put chased the two year old bull "Evelich,"" 5 "Romeo," bred by the late A. J. Fergu:" Diair.

Cht ĕxxMEM.

## THE NEW GRAPES "AUTUCHON" AND "CORNUCOPIA."

We make no apology for presenting our readers with two more engravings of new grapes originated by Mr. Charles Arnold, of Paris. These griups are destined, we believe, to a

career of great honour and usefulness. Wo Canadians are very modest about our own productions, and apt to think we must go to a distance to get anything super-excellent. But in the grape line we need not travel far. One of our own fellow-countrymen has produced at our own doors, grapes that take rank with the best varieties of their class that horticultural skill has brought into existence.
"Autuchos," illustrated on the opposite page, is a beautiful white grape, a seedling of the Clinton, crossed with Golden Chasselas. Leaves dark green, very deeply lobed, and with sharp pointed servatures, the unripe wood very dark purple, nearly black. The Chasselas flavour is very perceptible. It ripens with the Delaware, and is quite hardy.

During a hurried visit to Mr. Arnold's nursery, we noticed and were struck with the renarkable healthy and thrifty appearance of the "Autuchon" vines, and their entire freedom from mildew, with which some adjacent rines, whose branches were interwoven with tiom, were very badly affected. The flavour of this grape is exceedingly agreenble, and altogether it promises to take as higir a piace among white grapes as the Hybrid we illustrated in our last issue, among black ones.

Rev. WaH. Willeox says of it:"It is a very superior fruit, as tender as Rebecca or Allenand, with very much more life and character than either."
The Committee of the Paris Horticultural Society says :-A beautiful white grape; bunch fully nine incheslong; flavourmuchresembling the white Chassellas, but more sprightly, and which it much resembles in colour, having that green wax-like appearance; skin thin; no pulp; ripens with Delaware; a very handsome table grape.

But the highest possible enconium
upon this grape is that which is bestowed upon it by the originator of a rival. Mr. Samuel Miller, of the Blufton Wine Compnny, Mo., one of the best judges of grapos in Amcrica, and the originator of the now white grape "Martha," to whom was sent a box of the Autuchon fruit, ripened in the hill tops at Paris, says, in a letter to Mr. Arnold :- "I always considered Martha the best white native grape, but sinco seeing and tasteing your Autuchon, I haul down my colours. I can endorse all that is said of it in your catalogue. If it will ripen like this in Canada, and if it inproves by coming here like Rogers and other Northern grapes, then it seems to me we have all that can be desired. * * * It alone is a treasure."
"Cornucopia" is a seedling of Clinton, crossed with Black St. Peter's, it has large, dark green folinge, smooth above and below, not generally lobed. It is a most healthy grape, and a great bearer. Rev. W. H. Willcox, of Reading, Mass., says of it, in Gardener's Monthly, for December, 1867:-"Perfectly healthy, strong grower, fruit spicy, tender, good, somewhat like Clinton, but very much better." It is growing on the san? terrace as Hartford, Delaware, Rogers No. 3 and 15; and most fruit growers chat have seen and tasted it, prefer it to any of those varieties.

A Committee of the Paris Horticultural Society says of it:-"This is, undoubtedly, one of the best in the whole collection of Mr. Arnold's hybrid grapes; a very promising grape. Bunch large, shouldered, very compant, berry above medium size, black, with a beautiful bloom; flavour excellent, and very sprightly and pleasant ; skin thin, seeds small, very little pulp, if any; seems to burst in the mouth, all juice; ripens with Concord with ve: $y$ viguruus growth, and matures its wood very early. A good market grape."
The editor of the Anerican Horticultural Annual, for 1868, says:-" And we should add a good keepar as some specinens now lefure us, in December, though somerwhat slirivelled from exposure, are really good."

## HOW TO RAISE CARROTS.

Select a rather light piece of ground; if not rich, make it moderately so with short stablo
manure, plough and harrav thoroughly, then draw shallow furrows about eighteen inches to to two feat apart. If it is not desirable to cultivate with horse-power, about fifteen inches is the proper distance. The manure should be spread lightly along in the furrows. A furror should be thrown on the manure from aach side, making a ridge, and the top levelled of with a ralke. Then make a slight drill in tho middle of the ridge with the back of a wooden rake or a stick.
After having selected the kind of seed most desirable, sow it in the drill, covering lighltly with a rake. The propor way to plant the car rot is to plough down an old sod field, as by thus doing you are not linble to be pestered widb weeds, as if they had been planted in a cultivated field. They are sown for an early crop as soon as the ground is fit to work, and for at latter crop they can be sown any time until the first or middle of June.
When the plants have made their appearana, they should be cultivated between the rows, and weeded by hand thoroughly, and when they have acquired a height of two or three incles they will require thinning, and at the sanel time should be weeded. They should be thinntel to from three to five inches apart $i{ }^{\circ}$ designed to: sell in the premature state, bunched like betts? or radishes; but when large, full-grown rootis are the objects aimed at, they sloould bo letif from six to nine inches apart. When fulfes matured- which is found by the leaves turning -and desired to be kept over winter, they are taken from the ground, all the small, fibrus roots and the top taken of with a sharp kniff (some prefer the neck left on, which is necessary, in those intended for seed), and packed tightr! together-first a layer of dry sand, and a lasad of carrots, with the ends all one wray; thens layer of sand, and another layer of carrots, rith the tops the opposite direction; thus continue putting them in layers, covering with dry saxil four or five inches, to ${ }^{\circ}$ exclude the light and ait If put out in the field, they are made in a heap with a coat of straty over them, being coverad with earth to the depth of a foot to excluds frost. In this manner they will keep in fx condition until March.
There are several different kinds of carrots, but the following three varieties are the max desirable for general cultivation: Long Orung Carrot, the varioty most generally cultirate for market and stock purposes, very productiry rather coars9 flesh. It sometimes on very rid soil attains the length of two feet. Eaty French Short-Horn, bright orange-red colvut much shorter than the Long Orange, being of half-long shape, tender and delicate, and mued esteemed for the table at any season of the yar
White Belgian, or large white, the most pry ductive as well as the largest kind, very coare much used as a food for stock, but not regardes as so nutxitious as the other varieties. Trd Long Surry, the Red and Yellovs Altringhamd
and Orange Belgian are of no advantage to the "trucker" or farmen-the first named varieties being generally known and cultivated extonsively. The Early French is the kind that is sold in bunches, being earlier and shorter than the other varieties, and these qualifications making it the most profitable to a limited oxtent.Hearth and Home.

## STRAWBERRY CULTURE.

DY A. S. FULLER.

Every one who has a garden should grow a fer strawberries. It is a very simple matter to grow a moderate crop; but to produce it in abundance and of the best quality requires considerable skill and constant care.
The best and largest crop of strawberries that I evor raised was produced in the following manner: A bed, twenty-five feet wide and two hundred feet long, was prepar̂ed by spreading upon it $t$ elve cart-loads of old, well-rotted cowmanure; the ground was then ploughed deep and harrowed down smorth and level. About the middle of April tha plants were set out in rows, two feet apart, with a space of about deighteen inches between them.
No weeds were allowed to grow among the plants, and the surface of the soil was stirred at least once a week during the entire summer. Two or three runners were allowed to grow from each plant, and these were placed so that they rould take root between the old plants in the roms.
In the autumn, when the ground began to freeze quite hard at night, the entire bed and plants were covered with coarse grass to the .spth of two inches, after it had partially settled. iop prevent the mulching being blown off, a few poles were laid around the outer edge of the bed. In the spring, after the severe cold weather was past, a man passed along each row, and with a stick parted the mulching just over the centre of each row of plants, so as to allow the air and lught to reach the crowns and permit the leaves and fruit-stalks to grow up without lindrance. None of the mulching was removed from the beds: consequently the soil was kept moist and the fruit clean. This bed yielded a little over treelve bushels of fruit the second season after planting, which was the first crop; after the fruit was gathered, all the mulching was removed, and the soil between the rows was forked over, but no manure of any kind applied. The funners were not allowed to grow or take root evcept in places where there was a vacant space Tn the rows, and the next fall the mulching was spplied the same as before. This treatment was continued for four years, and then the plants fere ploughed undor.

I havo tried mauy different systems of culture for the strawberry, but none that has given so much satisfaction as this one, and, although it may be two expensive for extended culture, yot for the amateur who does not grow more than a half acre or acre, and desires to produce the largest amount possible on a given spaco, I can confidently recommend the above as being a system that will not only give an abundant crop, but the greatest amount of pleasure and profit. Many of the more delicate but large foreign varieties will succeed when treated in this manner, although they often fail when grown without mulching or winter protection.

## "LET US HAVE PEAS."

The editor of the Monroe Aldertiser confesses to an inordinate fondness for those delicious globules known as cornfield peas, anl indulges in the following rhapsody in reference to them :
"Bacon and greens will answer for those unlucky mortals who have not a cultivated taste; hog and hominy is prime in its place, and 'devilled' ham is delightful ; but how coarsehow tasteless-how insipid. 0 ! unprejudiced gormandizers-what are these articles of diet when compared to a dish of savoury peas!
"We envy the fortunate individual whu sits down to his first plate of peas! How exquisite must be his enjoyment! Reader, you are of this class, make haste to open unto yourself a new world of Epicurean delights. First, eat them boiled-cooked to a nicety; add a modicum of salt and red pepper, and corn-bread as an accompaniment ; then, with a spoon, fall to, not with coyness, but with right hearty good-will, and we promise you beforehand a meal such as potentates might envy.
"Gentle husbandman, raise peas; allow no gregarious beast to tear the trailing tendrils or destroy the fruitful pod. Pod, did we say? Nay! the worthier name Ollapodrida; for are not these the combination of all the excellencies and virtues of vegetables? Are they not at once bread and meat and dessert-at once substantial and delicious?
"We imagine it was not altogether nodesty which impelled that historical young woman, whose fane was heralded over our grand-mothers'tea-cups, to carve each of her peas in two. How ecstatic must have been her enjoyment at dinner !-an enjoyment fally realizing Milton's idea, of 'sweetness loug drawn out,' and utterly beyond the appreciation of this materialistic age.
"Perhaps the legend which Olysses has written upon his shield may mean something, after all. We call upon our agriculturists to respond to it. If there remains a spark of parriotism in this rebellious South-a remnant of ' wsthetic culture' among those Confederates who vexed their stomachs with mule-meat and hard-tackwe know they will appreciate our interpretation of President Grant's motto- "Let us have peas."

## FLORAL MAGNIFICENCE.

The Now York Home Jourinal gives this description of the floral magnificence at the marriage of a daughter of William M. Tweed, in that city, recently: "The decorations certainly surpassed any attempt of the kind at a similar entertainment ever given in this city. The staircase, ceilings, chandeliers, mirrors, doors, ornaments, and furniture, were garlanded and festooned most profusely with choice flowers and magnificent floral bells, and on every hand exotics, wreaths and overgreens were artistically displayed. Indeed, the interio: of the house presented rather the appearance of an enchanted palace, so beautiful did it look, and the serse of smell was so delightful that the illusion waskept up with little imagination. In the front parlor, almost obscuring the two front windows, the designers had constructed an arbor, in which the bride and groom received the congratulations of their friends. It was composed of 2,000 camellias and daphnes, callas and violets in unlimited numbers. The arbor was crowned with a shield of scarlet carnations, topped with a monogram, M. T., formed of tuberoses. In fíont of this, and separating the parlors, hung a marriage bell, from a massive arch of flowers, with festoons falling on each other. At the rear of the parlors, two very large floral harps were stationed, screening the inusicians. The decoration of the staircase was a very effective piece of work. Being spiral in construction, a person standing on the lowest floor could see to the very roof of the house, when, to use an expression of one of the guests, you were reminded of a tropical mountain in full bloom. Of course, all these flowers were not raised in or near New York. The greenhouses of Boston, Philadelphia and Baltimore were ransacked for the occasion. Oive may get an idea of the exhibition when we say that it brought into use 10,000 camelias, 100,000 primroses, 25,000 white azalias, and 2, 000 heads of daphnes. The collection, aitogether, was probably t.ee finest gathering of exotics brought together in one house. Forty men and boys were occupied some days in preparing the frame-work, and they werc all engaged during the whole of Tuesday night in arranging the flowers."

## GRAFTING THE GRAPE.

E. A. Riell stated before a recent meeting of the Alton Horticultural Society, that he had grafted grapes in the open ground with uniform success-as much so as in grafting an orchard. H. G. McPike had been equally successful by useing the same method, with the exception of doing it in autumn. D. L. Hall had entirely failed in autumn grafting, but had succeeded well in spring. The following is Mr. Riehl's mode :-

My method is to saw or cut off the vine from
four to six inches under ground. The stock I split with a thin bladed knife, being careful to cut rather than split. I make the split as near the centre of the stock as possible, and am very careful to have the bazk of stock and scion fit n:ce at one point at least. The stock will usually hold the scion firm enough without trying; if not, I tie with a string but never wax the grape. The earth is then firmly pressed about the sciun up to the top bud; a little saw dust put on the top to protect the bud and keep the earth from baiking, and the thing is done. I prefer early spring; it is cleft grafting under ground ; ny scions are from four to six inches long.

## HARDY FRUITS.

In answer to a correspondent, who enquires for the hardiest varieties of fruit, the Horticul. tural Editor of the Conentry Gentleman furnishes the following list:

Apples.-Sops of Wine, Red Astrachan, Au: tumn Strawberry, Fall Orange, Duchess of Oldenburgh, Fameuse, St. Lawrence, Golden? Russet, of (Western N. Y.,) Northern Spy, Wagener.

Pears.-Buftiun, Urbaniste, Anjou, Fulton, Lawrence, Winter Nelis.

Crabs.-Transcendent, Hyslop.
Grapes.-Hartford Prolific, Concord, Dela ware, Adirondac (covered in winter).

Cherrics.-Early Richmond, Mayduke, Large Morello.

Plums.-Schenectady Catherine, Lombard, McLaughlin.

Raspberries.-Philadelphia, Black Cap.
Strauberries.-Wilson's
Blackberries.-Kittatinny.
Currants.-Red Dutch, White Dutch, White Grape, Versailles.

HOW TO HAVE PLUMS EVERY YEAR
A correspondent of the Cunntry Gentleman says:-Our plum trees are loaded with good fruit every year that we observe the following directions: Put about a bushel of green manure around the root of each tree, one bushel chip manure on the stable manure, and then a pect of wood ashes on the manure as soon as the snon, is off: Last year there were ngeplums on treat in this neighbourhood except ours. I do nos know the names of the sorts we have, but they are some of them pale yellow with a little pint on the sunny side, some red with a yellow shade on under side of the fruit, and some dark yel: low, with red irregular marks on them. The. trees stand on a hillside facing oast, and hare red currant bushes between them. We set many plums drop off, stung by the curculio, but plenty remain on the trees and ripen. I thint it a pity that those who have trees should nothare plums.

## an iten in regard to pruning.

## To the Editor of the Ontario Farmer:

Sur,-It is supposed that Editors know everything in relation to the subjects treated in their journals, butthey blunder sometimes, like ordinary mortals. Your paragraph on page 85, entitled "Error as to pruning" shows plainly that the American Agriculturalist gave wrong advice about pruning. Indeed nothing could be more absurd than the course recommend by that journal. A. A. Hirs is correct in his theory, but makes one important omission. The stump of every limb taken off with a saw (however sharp and fine) should have the ring of wood and bark neatly and carefully pared with a sharp knife to promote a speedy growth.
You may make a note of this, a hint will do no harm.

> Respectfully yours,

Wililam Sisson.
Port Hope, March 23, 1869.
TOADS, ETC., IN GARDENS.

In a recent lecture on Insect Enemica, before the Vineland Agricultural and Horticultural Society, N. J., by Mr. Treat, he thus alludes to the usefulness of toads:-
Carry all the toads you may ind to your grardens. They will devour immense numbers of bugs. A toad will swallow the largest specimen of the tomato worm, though sometimes he frill have a hard time of it. Snakes, hens, wasps, piders, are all devourers of your enemies. A fommon duck will go up and down rows of gomato and potato vines, and pick off the large frorns usually found on such vines, as fast as it can see them; and they will see a half dozen then a man would not see one. Young turkeys fill do the same service, though they are not so asily controlled and guided. All fallen fruit is o be picked up twice a day-at any rate one ime-boiled, and then given to your cattle to Podevoured. By doing this it will pay ten times frer, and the result of it will be that next year fou will not have insects.

## HE BEST MULCH FOR GRAPE VINES.

A correspondent of the Country Gentleman ays that he finds leached ashes and cut grass te best mulch for the grape vine. The ashes ather moisture and repel heat. Grape vines hat were mulched at the commencement of the frought last summer, stood the heat well. When
*le grass rots, the roots derive nutriment from The grass is put on first, and then covered ith ashes. This mulch is both protective and : ariching, and the nutriment is of a kind that is anted-vegetable and carbonacous.

## GAELDEN GLEANINGS.

Pear-blight still puzzles the horticulturists. The best remedy known is to plant two trees for every one that dies.
There are 148,000 shade trees in Paris-principally the elm, Plane, Horse-chesnut, Maple, Linden, Acacia, and the Ailanthus.
An extensive fruit grower, who within a few years has set out thirty thousand trees, says that as to peaches, pears, and plums, he would prefer them at one year old, and the apple at two years. Much depends on after cultivation.

On a market garden farm of a little less than 90 acres, in Monmouth County, N.J., there was realized last year a profit of nearly $\$ 80$ per acre, $\$ 6789.67$ in all. There was paid for labour $\$ 1640.50$, and for manure $\$ 2294.00$.
The American Basket Company, New Britain, Conn., have prepared a useful and interesting circular containing directions on marketing smali fruits, which the Country Gentleman commends to the attention of those engaged in that business.
The Gardener's Magazine says that several fine plants of the prickly pear covered with living Cochineal Insects, have arrived at the Royal Botanic Gardens, Regents Park, London, from Maderia. Both plants and insects are in a more healthy state than specimens usually imported.
The Gardener's Monthly says that immense numbers of insects might be destroyed in a garden or orchard by using bottles of sweet liquid systematically. This is quite common in England, where they do not let every fruit enemy run riot, and then sit down and ery about having no crops.
At a recent meeting of the Pennsylvania Fruit Growers' Society, Mr. Thomas Meehan Editor of the Gardener's Monthly said that "in order to have good success in growing grapes, a soil could scarcely be too warm, too dry, too shallow or too rich." His opinion was endorsed by nearly all the fruit growers present.
In the London Tournal of Horticulture, Mr. Rivers states that an orchard-house in the garden of Mr. E. W. Harlock, of Ely, Cambridgeshire, produced this season nearly 40 bushels of peaches, nectarines, and apricots, besides a large quantity of pears and plums. The house is 100

An Iowa correspondent of the Prairie Farmer, who has made a trial of the Barberry for a hedge, says it is easy to keep in good shape, and is always symmetrical and neat. To form a barrier against cattle, he stretches two or three wires in it. Another correspondent finds the seed of ready growth, even without washing off the pulp, and that eight or ten years are required to form a good hedge. He has one next the pubiic road, and to prevent cows from hooking it, which they are apt to do after the leaves drop, he also sets a few posts and draws wires, remarking that cattle do not like the ring of iron.

The St. Catharines Times says that the poach trees all around St. Cathnrines, and throughout the Niagara district generally, aro entirely uninjured after the Winter. The fruit buds are fresh and groen, and if the blossoms are not cut off by frosts in Mny, there will be a henvy crop) of peaches. Cherries, pears, apples and grapes, and indeed all kindsijof fruit, promiso a most nbundant yield the coming season.

Fredorick G. Pratt in an essay on the strawberry read before the Concord Farmers' Club, says that the different varieties of strawberries require different soils. Thus the Hovey, originacing in a heavy clay soil, has alv ays done best on the clayoy lands about Buston. The Agriculturist, starting from light sandy soil gives its best results from such light land, and so will all varicties each having some favorite soil.

The Northern Spy apple blossoms later in the season than most varieties, and on this account escapes frosts which often destroy the fruit of earlier sorts. The fruit is borne on spurs interspersed through the troe, and therefore is less liable to be blown off by the winds than those apples which are set on the extremities of the branches. The quality of the fruit is very good, and it retains its fitvor until late in the Spring.
A correspondent of the Augusta (Ga.) Chronicle says that the best way to renovate old apple trees is to commence with a good pruning, then scrape off all loose bark and moss; give the tree a longitudinal incision through the bark; wash the whole with a strong solution of soap and water with lime added, and give a good working out with a digging forl around the roots as far as they extend. Spread lime and ashes broadcast around the tree.

A correspondent of the Southern Cultivator says that in planting a vineyard, the selection of a site is of the greatest importance. A slight declivity is desirable, with open or under drains to carry off the superabundant water, and to prevent washing. Shelters are also of vast importance, intermediate hill-belts of timber, or double rows of evergreens or decidious trees, to break the force of dry and cold chilling winds, to prevent too rapid evaporation, and to keep vines as far as possible from ail disturbing influences.

A correspondent of the Southern Cultivator says that Downing, Westbrook, and others recommend to train fruit trees low-say from 18 inches to 3 feet high. He has followed this advice for nine years, and his orchard is nearly a failure. His trees were planted in 1860 in holes two feet deep, six feet in diameter, filled partiy woodsmould, swamp rakings and lot manure. These trees grew and flourished for three years, then the borer attacked them, and no effort of his could save them. One-third of them died before they reached their seventh year. The peaches rotted and fell to the ground before ripening. His apple trees failed in a similar way. He intends to train about five feet ligh in future.

A New Grate Disbase in France.-M. Bazille presented a momoir to the Fronch Academy on August 3rd, detailing a new diseare which ho says is likely to prove more disastrous than the famous vine mildew. This new enemy is not a fungus, but a minuto aphide, which he calls a Rhizobius, and which forms yellow parasite pat. ches on the roots of the grape vine.

How to Grow Laras Potatoes. - The North British Agriculturist says :-"To improve the size of potatoes, whether planted with small or large, whole, or even cut potatoes, when the plants are only a few inches high, let the shoots be reduced by pulling them up to one or timo, or at most three of the strongest. The tubers will consequently be fewer and very much larger, also in measure nearly all fit for market and the table.
The European Larce.-A correspondent of the Prairie Farmer writes as follows, about this tree and its propagation :
"The European Iarch is much more valuable than our native species, and will thrive well ona dry soil and sandy barrens, and is adapted to nearly all soils and climates, being a perfectly hardy tree. Its foliage is a light green, resembling the evergeen.
"It should be planted very young, or quiie small, to do well, and very eariy in the sprug, on account of the buds starting early.
"If the young trees are ordered from a ds: tance, it should be in time to have them set ss they can be taken up.
"Its seeds are small, and should be sormin" winter or eariy in the spring, in boxes or beds, of light sandy soil, over a quarter of an inch; keep varefully moist and shaded, not exposing the young plants to the hot sun.
"In a couple of years transplant."
Parlor Plants.-The Journal of Horticulturn says that some plants will do well in rooms thas will not flourish in the hot-house, and that suded as will thrive in parlors are highly prized. He says that house plants suffer greatly from dut which chokes its lungs-the leaves sorving the function of breathing. This can be remedied by frequently sponging or showering the plants. As to watering, the Joumal says:

In every case where water is appiied to a plant, either at root or branches, it should be of the temperature of the room where the plant groms Rain water is preferable to any other; and where hard water only can be obtained, it should be allowed to stand some hours before being applied to the plants. In sponging plants thatan very dusty, lukewarm water may be used to ad. vantage, but after the operation, a good shorer. ing of cold water should bo given. The sull used should be much the same for all windoi plant3, and may be generally described as god garden loam.

## (0)ut Cixuitry.

## AGRICULTURAL AND HORTICULTURAL SOCIETIES, 1860, AND THEIR SECREIARIES.

(N.B.-Electoral Division Sociotics are printed in small capituls, the rest aro Township Societies).
Addinaton--J. B. Aylsworth, Newburgh.
Camden.-J. B. Aylsworth, Newburgh.
Loughborough.-W. Boyce, Loughborough.
Portland.-J. Coul, Harrowsmith. Algonsa.-C. J. Brampton, Sault Sth Maric. Brant, N.-D. R. Dickson, Paris. Dumfries, S.-H. Hart, Paris. Onondago.-S. Bradshard, Onondago. Brantford, E.-H. Imlach, Cainsville.
-Paris Horticultuarl. - H. Hart, Paris.
Brant, S.-D. McKay, Brantford. Burford.-J. Bingham, Burford.
Brantford Horticultural.-B. F. Fitch, Brantford.
Bruce, N.-J. Saunders, Paisley.
Arran.-J. N. Gardner, Invermay.
Bruce.-P. Sinclair, Underwood.
Elderslie.-M. Macnamara, Paisley.
Snugeen.-A. Roy, Normanton.
Bruce, S.-A. St. X. Mackintosh, Walkerton.
Kincardine.-T'. Bradley, Bervic.
Greenock.-J. Cunningham, Greenock.
Brant.-A. St. L. Mackintosh, Walkerton.
Huron.-T. Wilson, Kincardine.
Curloss.-J. Fraser, Teeswater.
Carrick.-D. McLean, Mildmay.
Brockvitse.-D. B. Jones, Brockville.
Bothwele.-I. Unsworth, Florence.
Sombra.-P. Cattenach, Sombra.
Dawn.-I. Unsworth, Florence.
Zone.-A. Duncan, Bothwell.
Camden.-D. Wallace, Dawn Mills.
Orford.-E. McCollum, Duart.
Howard.-J. Duck, Morpeth.
Carieton.-A. S. Woodburn, Ottawa.
Fitzroy.-A. Riddle, Hubbell's Falls.
Gower, N.-W. Elliott, North Gower Corners.
Huntley.-W. Revington, Carp.
March.-G. W. Monck, South March.
Cardwelt.-J. Allan, Mono Mills.
Albion.-C. R. Bolton, Albion.
Caledon.-D. Kirkwood, Charleston.
Adjaln.-J. C. Hart, Keemansville.
Mono.-J. Anderson, Orangeville.
Cornwall.-J. S. McDougall, Cornwall.
Durham, E.-J. Foot, Port Hope.
Cavan.-J. W. Sootheran, Millbrook.
Manvers.-A. Riley, Bethany.
Hope.-R. Dickson, Port Hope.
Port Hope Horticultural Society.-J. S.
Johnston, Port Hope.
Derfanr, W.-R. Windatt, Bormanville.
Clarke.-J. L. Tucker, Orono.
Darlington.-R. Windatt, Bownanville.
Cartwright.-J. Parr, Williamsbury.
Bowmaniville Hurticultural.-W. R. Clinnie, Bormanville.

Dundas.-A. G. Maedonoll, Morrisburgh. Mountain.-R. Shavor, South Mountain. Matilda.-A. Harkness, Dixon's Corners. Winchester.-J. Fitz Giblons, Winchester.
Williamsburgh.-W. Whittakor, Williamsburgh.
Elarn, E.--H. Ellis, St. Thomas.
Bayham.-L. J. Gundry, Viomna.
Malahide.-R. Ward, Aylmer.
Yarmouth.-L. S. Leonard, St. Thomas.
Dorchestor, S.-M. Fullarton, Lyons.
Elain, W.-J. A. Philpotts, Iona.
Southhold \& Dupwich.-J. A. Philpotts, Iona.
Aldborough.-R. Coates, Aldborough.
Essex.-H. Botsford, Amherstburg.
Malden and Anderson.-H. Botsford, Amherstburg.

Gostield \& Mersen.-C. Palmer, Lenmington.
Colchester.-W. Grubb, Colchester.
Maidstone.-T. F. Kane, Maidstone.
Rochester.-J. Moran, Rochester.
Tilbury, W.-J. F. Dodd, Trudell.
Frontenac.-I. Simpson, Kingston.
Wolfe Island.-H.O. Hitchcook, Wolfe Island.
Pittsburgh.-R. J. Milton, Kingston.
Storrington.-T. Conklin, Inverary.
Glengarry.-T. McDonell, Williamstomm.
Charlottenburgh.-T. McDonell, Williamstown.

Kenyon and Lochiel.-A. McDonell, Lochiel. Grenvilies, S.-T. J. Tracey, Prescott.
Edwardsburgh. -J. Robertson, Spencerville.
Grey, N.-W. Gordon, Owen Sound.
Owen Sound Horticultural.-J. G. Francis, Owen Sound.

Collingwood and Euphrassie.-W. Hengill, Epping.

Holland and Sullivan.-J. Duffy, Chatsworth.
St. Vincent.-J. Albery, Meaford.
Sydenham.-C. Gordon, Owen Sound.
Derby.-W. Beaton, Kilsyth.
Grey, S.-D. Fletcher, Durham.
Bentick and Glenelg.-A. Cochrane, Turham.
Artemesia.-W. Clayton, Flesherton.
Osprey.-J. A. Sutherland, Maxwell.
Egremont.-D. Allan, Durham.
Proton.-A. McPherson, Cedarville.
Melancthon.-H. Jarvis, Horning's Mills.
Haldimand.-J. Young, York.
Oneida and Seneca.-F.A. Nelles, York.
Cayuga\&Rainham.-J.Law, Rainham Centre.
Walpole.-R. W. Hewitt, Cheapside.
Halton.-W. C. Beaty, Omagh.
Esquesing.-J. Murray, Esquesing.
Nassagiweya.-S. L. Lister, Nassagiweya.
Nelson.-R. Miller, Lowville.
Trafalgar.-H. M. Swiszer, Palermo.
Hanrleton.-A. E. Walker, Hamilton.
Hastrags, N.-J. T. Ryan, W. Huntingdon.
Rawdon.-G. E. Bull, Stirling.
Huntingdon.- J. J. Ryan, W. Huntingdon.
Madoc -Chas. Gream, Madoc.
Hastinas, E.-P. R. Palmer, Thurlow.
Thurlow:-P. R. Palmer, Thurlow.
Tyendinaga.-C. Anderson, Melrose.
Hastungs, W.-S. D. Farley; Belleville.
Huron, N.-S. Malcomson, Clinton.

Àshfield.-J. Roberts, Dungamnon.
Wawanosh.-J. H. Tayler, Westfield.
Turnberry-W. Anderson, Wingham.
Howick.-W. Lawie, Wroxeter.
Morris.-W. Wilson, Blythe.
Grey.-D. Stewart, Ainsleyville.
Hullet.-E. Bolmes, Clinton.
Huron, S.-H. Love, Kippen.
Tuckersmith.-W. McConnel, Egmonville.
Stanley.-J. Walker, Varna.:
Hay.-R. Brown, Zurich.
Usborne.-J. Elder, jun., Rodgerville.
Stephen.-T. Greenaway, Exeter.
Kent.-J. Hart, Chatham.
Chatham.-J. Lillie, jun., Wallaceburgh.
Tilbury, E.-J. Fletcher, Tịlbury East.
Raleigh.-A. White, Charing Cross.
Harrich.-W. R. Fellows, Rond Eau.
Kingston.-A. J. Briggs, Kingston.
Landion.-E. Watson, Sarnia.
Bosanquet.- Crawford, Widder Station.
Warwick.-G. Smith, Warwick.
Plymton.-J. Simpson, Aberarder.
Moore.-H. J. Miller, Corumn.
Enniskillen.-J. Hendra, Ossian.
Brooke.-E. Bowlby, Napia.
Ianare, N.-J. Baird, Almonto.
Dalhousie.-J. Donald, McDonald's Corners.
Lanark.-J. Young, Middleville.
Ramsay.-G. Forgie, Almonte.
Pakenham.-A. Fowler, M.D., Pakenham.
Lanaris, S.-A. Mcivee, Perth.
Montague.-E. Chalmers, Smith's Falls.
Elmslie, Burgess, \& Drummond. A. McÑee, Perth.
Beckwith.-A. McArthur, Carleton Place.
Leeds and Grenvilee.-H. H. Brennan, Frankville.
Kitley © Elmsley.-S. Chalmers,Smith'sFalls.
Walford -J. Coolridge, Easton's Corners.
Gower, S.-J. S. Adams, Heckston.
Leeds, S.-W. Brough, Gananoque.
Yonge and Escott.-A. Parish, Farmerville.
Leeds \& Lansdown.-G. F. Dean, Lansdown.
Crosby.-R. A. Preston, Newborv'.
Bastard.-J. Delong, Forfar.
Lennox.-C. James, Napance.
Richmond.-O. D. Sweet, Selby. Adolphustown.-A. Nelson, Sandharst.
Frederickburgh.-W. N. Dollar, Napanec.
Ernestomin. R. Aylesworth, Odessa.
Amherst Island.-Col. Hitchens, Emerald.
Lincons:-J. H. Bessey, St. Catharines.
Clinton.-J. C. Kerr, Beamsville.
Granthan.-W. H. Emmeit, St. Catharines.
Grimsby.-J. T. Middleton, Grimsby.
Louth.-P. Prest, Jordan.
St. Catharines Horticultural.-F. W. McDon-
ald, St. Catharines.
London (City).-Wm. MicBride, London.
Middeeser, N.-W. K. Athinson, Ailsa Craig.
McGillivaay.-R. Shoults, McGillivray.
Biddulph.-A. Grant, Granton.
Williams, E.-T. Shipley, Falkirl.
Williams, W.-J. Dairson, Syivan.
Adelaide.-A. Preston, Granton.
Lobo.-J. Irvine, Lobo.

Middesesex, E.-Fi. Anderson, London.
Nissouri.-W. Lee, Thorndale.
Dorchester, N.-J.B.Lane, DorchesterStation
Westminster.-T. Tleming, London.
Lundon.-R. Orr, Arva.
Midelesex, Y.-J. Kecfer, London.
Deleware.-Dr. Francis, Deleware.
Carraduc.-IV. E. Lawyer, Mount Bridges.
Medcalfe.-T. Richards, Strathroy.
Mosia.-A. Thompson, Wardsville.
Ekfrid.-A. Douglass, Lonerivood.
Monce.-D. C. Holmes, Wellandport.
Cranborough.-S. Kennedy, St. Ann's.
Caiston.-Fi. Pearson, Abington.
Gainshorvugh.-Samuel Kemnedy.
Pelham.-E. Wilson, Ridgrille.
Wainfleet.-J. Priestman, Marshville.
Niagara ('Iown).-A. Saroos, Niagara.
Northumberland, E. - R. P. Hurlburt,
Warkworth.
Cramache-TW. Easton, Colborne.
Brighton.-J. C. Clarke, Brighton.
Murray.-H. Ficidhouse, Rosa.
Seymour-J. Clarke, Burnbrae.
Percy.-R. P. Huriburt, Warkworth.
Northumbeicand, WV.-C. Boum, Coboury
Hamilton. - R. Cullis, Cold Springs.
Haldimand.-J. Gillard, Grafton.
Cobourg Horticultural.-D. Brodie, Cobours
Norfork, N.-D. TV. Freeman, Simeo.
Middleton.-O. P. Mabee, Dereham.
Townsend.-H. Slaght, Waterford.
Windham.-D. W. Freeman, Simcoe.
Norfole, S.-A. W. Smith, Simcoe.
Charlotteville.-A. W. Smith, Simcoe.
Walsingham.-J. D. Morgan, Pleasant Hill
Woodhouse.-T. England, Port Dover.
Ontario, NV.-J. Christie, Manchester.
Brock-T. H. Glendimning, Brock.
Thorah.-N. F. Patterson, Beaverton.
Reach and Scugog.-J. Christie, Mancheste:
Uxbridge.-A. Todd, Goodwood.
Scoti-A. Turner, Ashworth.
Mara and Rama.-A. Thorne, Atherley.
Ontario, S.-G. Robson, Whitby.
Whitby.-J. Willis, Whitby.
Pichering. J. Brown, Pickering.
Oxford, N.-R. W. Samtell, Woodstock. Nissouri, E.-J. Robinson, Kintore. Zorrá, W.-J. Minn, Embro.
Zorra, E.-R. Campbell, jun., Strathallan. Blandford.-J. Oliiver, Ratho.
Blemhcim.-G. F. Williamson, Princeton. Oxford, S.-R. T. Williams, Culloden. Oxford, N. \&W.-W. H. Gane, Ingersoll. Oxford, E.-T. Arnell, Vandicar.
Norwich, N.-TV. S. Scarf, Norwich.
Norwich, S.-A. B. Moore, Otterville. Dereham.-R. T. Williams, Culloden.
Otinata (City).-A. S. Woodburn, Ottama. Peel.-A. B. Scott, Brampton. Chingacousey.-J. C. Snell, Edmonton. Toronto.-T, D. King, Cooissville. Toronto Gore.-J. Linton, Humber.
Perth, N.-S. Campbell, Stratford.
Wallace and Elma.-I. C. Tilt, Listowell. Morrington.-S. Whaloy, West's Corners.

Perth, S.-W. N. Ford, St. Mary's. Downie.-T. Balantine, Sebringville. Fullarton.-W. Davidson, Carlingford. Hibbert.-J. McCurdy, Staffa.
Peterborovah, E.--W.E.Roxburgh, Norwood Asplcdel \& Belmont.-W. E. Roxburgh, do. Douro \& Dummer.-W. Snellgsoove, Warsaw. Dysart.-J. Irwin, Haliburton.
Otonabee.-M. Campbell, Keene.
Peterborocgh, W-J. Carnegie, jun., Peterborough.
Monaghan, S.-J. Riddell, Centreville.
Monaghan, N., and Smith.-M. S. Dean, Bridgnorth.
Peterborough (Town) Horticultural.—S. Balmer, Peterborough.
Prescortr.-J. Shields, Vankleekhill.
Caledonia.-H. J. Bradley, Fenaghvale.
Hawksbury.-S. Cap, Vankleekhill.
Plantagenet, N.-H. Smith, N. Plantagenet.
Plantagenet, S.-A. McLean, Riceville.
Pringe Edward.-J. P. Roblin, Picton.
Ameliasburgh.-I. Diamond, Mountain View. Eillier.-S. P. Niles, Hillier.
Hallowell.-LI. B. Stinson, Bloomfield.
Sophiasburgh,-N. J. Baulter, Demorestville.
Picton Horticultural.-T. Bog, Picton.
Renerew, N.-N. W. Jackson, Westmeath.
Ross.-R. Allen, Cobden.
Revfrew, S.-R. McLaren, Renfrew.
McNab.-G. E. Neilson, Armprior.
Admaston.-A. Brown, Admaston.
Grattan.-S. G. Lynn, Eganville.
Russell.-J. Morgan, Osgoode.
Gloucester. T. Johnston, jun., Ottawa.
Osgoode.-J. Cowan, Vernon.
Clarence.-G. Edwards, Clarence.
Cumberland.-C. Aunter, Cumberland.
Russell.-E. F. Loncks, Russell.
Siscue, N.-J. Thomas, Barrie.
Nottarrasaga.-H. M. Frame, Duntroon.
Sunnideie.-H. Hislop, Stayner.
Vespra.-G. Sneath, Midhurst.
Flos and Medonte.-W. Harver, Elmvale.
Oro.-J. Thomas, Barrie.
Orillia.-G. Tudhope, Rugby.
King and Tav.-C. Ross, Penetanguishene.
Snicoe, S.-W. M. Stevenson, Bradford.
Grillimsbury, W.-E. Jeff, jun., Bond Head.
Tecumseth. S . Walker, Penville.
Innisfil.-T. Maconchy, Lefroy.
Essa.-W. Armson, Thornton.
Tossorontio.-R. Corbitt, Rosemont.
Mulmer.-J. A. Love, West Essa
Stormont.-Geo. Shaver, Wales.
Osnabruck-Geo. Shaver, Wales.
Toronto (City).-W. Edwards, Toronto.
Victoris, N.-J. S. Russell, Kirkfield.
Laxton.-S. Corbet, Oakhill.
Eldon.-G. W. Miller, Woodville.
Fenelon.-J. D. Naylor, Fenelon Falls.
Muskoka-J. B. Browning, Bracebridge.
Vicroria, S.-W. J. Thirkell, Lindsay.
0 ps .-W Boynton, Iindsay.
Maripossa.-J. Barnart, Oakwood.
Emily.-J. R. McNiellie, Omeme.
Verulum.-W. B. Read, Bobcaygeon.

Lindsay, Herticulture.-C. Meads, Lindsay.
Waterloo, N.-M. Springer, Waterloo.
Woolwich.-J. Hall, Winterbouine.
Wellesley.-G. Oakley, Crosshill.
Waterloo, S.-A. Macgregor, Galt.
Wercand.-A. Read, Crowland.
Bertie.-A. Dickout, Point Albino.
Croviland.-W. Buckner, Crowland.
Humblestone.-J. Thomson, Humblestone.
Stamford. -J . Law, Drummondville.
Thorald.-R. Spencer, Alarburgh.
Willoughby.-J. McCredie, Chippawa.
Wellington, N.-J. Isles, Arthur.
Amaranth.-T. Caven, Whittington.
Arthur.-J. Isles, Arthur.
Minto.-A. Meiklejohn, Earrison.
Welinggton, C.-J. Beattie, Fergus.
Garafraxa.-A. Nichol, Garafraxa.
Erin.-J. W. Burt, Coningsby.
Framosa.-W. Tolton, Eramosa.
Nichol.-G. H. Todd, Fergus.
Pilkington.-R. Cromar, Salem.
Wellington, S.-G. Murton, Guelph.
Guelph.-J.Laidlaw, Guelph.
Puslinch.-J. Grant, Aberfoyle.
Wentworth, iv.-J. Weir, jr., W. Flamboro'.
Beverley.-J. Armstrong, Rockton.
Flamboro', E.-T. Stock, Waterdown.
Flamboro', W.-C. Durrant, W. Flamboro'.
Wentworth, S.-W. A. Cooley, Ancaster.
Saltfleet\&Binbrook.-J.Davis, Mount Albion. Glanford and Barton.-C. Grey, Hannon.
Ancaster.-F. Snider, Ancaster.
Yori, N.-E. Jackson, Newmarket.
Georgina and N. Gwillimsbury--Angus Ego, Georgina.

Whitchurch.-M. Jones, Bloomington.
King.-S. Machell, King.
E. Gwillimsbury.-A. J. Hughes, Sharon.

York, E.-J. Pobinson, Markham.
Markham.-J. Spright, Markhan.
Scarborough. - J. Crawford, Malvern.
York, E.J. McCarter, Toronto.
York, W.-B. Bull, Davenport.
Etobicoke.-W. A. Ide, Islington.
Vaughan.-T. Graham, Woodbridge.
York, W.-J. McCarter, Toronto.
Fruit Growers' Association.-D. W. Beadle, St . Catharines.

FLAX CULTURE.
To the Editor of the Ontario Farurrr.
SIr,--It isgratifying to be able to state that this crop is now gaining much more favour with the farmers then it has done for several years past, from the fact that it has now become one of the best paying crops that a farmer can raise. It will be seen by a statement lately published in the papers, that in the neighbourhood of the Scutch Mills at St. Mary's, Township of Blanchard, one farmer realized at the rate of $\$ 50$
per acre from his crop of fiax last yoar. The prices for both fibre and seed are now quite as high as they were any time during the Amorican war, and the demand for fibre, more especially, immensely incrensed in the American market. The supply this season has not been a tythe of the quantity requirer?. The spring is now about opening, and with wheat at the present low figures, flax may safely take its place to a very great extent. Seed for sowing can only bo procured, I believe, at Montreal, and at $\$ 2$ a bushel f. o. b. the cars there; this shows the necessity for those cultivating flax to keep or raise their own seol. Some farmers near Woodsteck, a year or two ago, raised Hax for the purpose of growing seed alone, and had an average of some 20 bushels to the are. This can be done again, and still the fibre will work into coarser qualities of flax, that will bring a fair price. Of course, in Treland and other flax growing countries, it is well known where the finest qualities of fibre are produced, the seed is never allowed to ripen. This can be done in Canada, and to greatadvantage, as the quality is very much improved, and will bring a much higher price. This wili be easily understood when it is considered that the whole of the oily substance is allowed to remain in the stalk, instead of rumning up into the seed.

I am authorized to state, by one of our wellknown agriculturists in the County of Halton, John White, Esq., M.P., that there is no grain equal to flax to seed down with. The clover plant is soon protected by the flax plant, and sheltered from drought, while in pulling the flax the clover is moulded and recovers fresh nutriment which stimulatesits growth. Having often called the attention of the farmers to this new branch of Canadian industry, it affurds me greater pleasure than ever, when I am able to state for a fact that it is now a paying crop, and one well worthy their attention, cven if they would only sow $a$ fow acres each.

In conclusion, it will be admitted on all sides the immense increased employment it affords is a general benefit not only to the working classes, but to the country in general.

Wishing your paper and this subject every success,

> I am, sir,
> Your obedient servant, John A. Donaldson.
Government Immigration Office,
53 York St., Toronto, 10th April, 1869.

## 

TORONTO MECHANICS' INSTITTUTE.
This institution, now in the $39 \mathrm{th}^{2}$ year of its existence, held its annual meeting on the luth inst. From the report of the Directors we lean that its membership shows a total of 1,050 , beng decrease of $6{ }^{6}$ on the number reported for the previous year.

The Library now contains 7,572 volumes of books, about one-third of which are fiction, and the remainder science and art,' and general liter. ture. Its issues to members and subscribers ior the year amounted to 21,766 vols. The Readiug room is supplied with the leading political, commercial and literary papers and magazines of Britain, the United States, and Canada, numbering in all 126 separate publications.

The evening classes, which, if not of the firs. importance in the Society's operations, are onls second to the Library, are shown to have agan been very successful. The subjects taught em. brace book-keeping and penmanship, arithmetic and mathematics, architectural, mechanicai and ornamental drawing, French, English gramner and composition, Chemistry and Natural Philosaphy ; also a mutual instruction class. The whole number of pupils was 253 . The usual examina tion had been made, and prizes awarded in esce department. The fine arts exhibition, which was kept open for eleven days, is reported ait having been a success in every thing but its fir ances. Twelve public ontertainments, such at readings, music, ©c., were given during the yer, and resulted satisfactorily. The project of new Music Hall to seat 2,000 jersons, proposed to be added to the present la،ge building, is stim under consideration-the "ways and means" being the point of difficulty. The whole cost is estimated at nor less than $\$ 30,000$.
The Treasurer's statement shows total recipts for the year, $\$ 7,321.75$; expenditure, $\$ 7,196.80$; balance in hand, \$124.95. The assets are: real estate, $\$ 55,800$; library, furniture, \&u, $\$ 8,2055.28$; total, $\$ 04,050.28$. Liabilitics br mortgages, $\$ 23,400$; Sundries, $\$ 2,296.86$; total liabilities, $\$ 25,696.86$; balance, $\$ 38,353.42$.

The Birectors conclude their repart by expresiing regret at the large amoant of liabilities $\mathrm{m}^{-}$
maining unpaid, which, in some measure, is no doubt owing to the depressed state of business for the past few months, and partly from the mant of interest in the institution by a large number of those from whom support might be expected. The Institute has, undoubtedly, by its library, its reading rooms, its lectures and its erening classes, heen the means of imparting instruction and healthful recreation to many of the joung men of this city, who have thereby become more steady and better skilled workmen, and who might but for the attractions of the Institute have fallen into evil courses too prevalent in the times in which we live. For this not only have the young men been directly benefitted, but indirectly it has been of advantage to their friends, their employers, and the citizens generally; and has thus constituted a claim to the generous support of the Toronto public.

## ON BARK AND TANNING.

A recent number of the Scientific Ancrican contains some " practical suggestions on tanning leather," by C. Gilpin. We have not space to gire the whole article, but select a few of the most useful points touched upon, for the benefit of our Canadian tanners.
As a result of risits to some hundreds of tanneries, the writer was convinced of the necessity of more care being used in peeling, handling, and storing the bark, which, from carelessness and exposure, and other causes, sustain a loss of from one-fifth to one-tlird of its tanning properties. He says:-
"It is a self-evident proposition that all perishable articles when exposed to the influence of the elements which are known to destroy their virtues, must as an inevitable consequence part mith a portion of their virtues just in proportion to the extent they are brought in contact with them. Hence we find that bark exposed for a length of time to rain and snow, the latter frequently melting and passing through the piles left standing in the woods, must yeld up no inconsiderable portion of its tanning properties. Those who lave not turned their antention to the real difference between a liquor mado from first quality and that made from damaged bark, cannot realize the comparative value in actual tanning material between the two. From a test made some years since, it was discovered that bark which had been exposed for two days to continued warm rains during the month of July, had yielded up one-fifth of its tannic acid, and
consequently rer uired that much more bark, to produce the $1 .$, red strength of liquor; or, in other words, one cord and one-fifth to accomplish what one cord of good, sound bark will do. A test was also made with hemlock bark, which proved that a cord of that bark which had been standing in the woods exposed to the weather for two months had parted with nearly onefourth of its tanning principle, which had been leached out, entirely extinguished through negligence, by not being properly protected from those elements that are known to destroy the tanning properties of all barks used for tanning purposes. Nor is this the only luss incurred through want of some thorough system by which the bark can be immediat 1 ly secured, beyond question, from being injured by exposure after it is peeled; the labor of handling. hauling, grinding, and pitching is the same, with twenty-five to fifty per cent. less material to tan with, also the injurivus influence of the dark moldy color, a general accompaniment of dasiaged bark upon the stock. In view of these facts we desire to direct the attertion of the manufacturer to these existing, and wo believe, increasing evils, that they may make a movement to correct them, and thereby in somo measure avoid the heavy losses now sustained in this department.
"It appears from information derived from high English authority that the trade both there and on the Continent understand fully the importance of securing the bark crop from possibility of damage, by housing it the same day it is taken off the tree."

The writer estimates that the loss by exposure referred to, in the United States, at certainly not less than $\$ 7,000,000$ annually, in addition to the loss of hauling and handling a large portion of useless material. As a remedy for this state of things, he suggests that:-

[^0]in whinh his bark is packod in the waggon or other conveyanco in which it may be brought to markot, knowing as a genornl thing tho domand is fully equal to tho supply, and consoquently mouts with ready cash salo; and my oxporienco has satisfiod mo that it is a mattor of economy for tho tamer to have the control of tho pooling, hauling, and managoment of the bork in the woods, as thoreby he can havo it socured in the best possiblo manner against damago, oven if it should cost him an oxtra quartor or fifty conts per cord, which would bo at small mount in consideration of the adrantagos gained."

After adrising that seluctions be made from bark in all conditions, from tho very best down to the most inforior quality, and that liquor be made thorefrom and ambred so as to indicate the exact amount of taming each contains, and thus furnish a guide to the tamer as to thoir respeciive commercial values, ho conclutes by calling the "attention of the trado to the fact that while in Europe mad England they tan out one pound of best quality of sole leather with four pounds of bark, it requires twelve to thirteen pounds to do the same work in this country; this alone should satisfy every inquiring mind engaged in the production of leather, that we receive a great amount of material in the slape of bark that does not pay for hauling and the other labor put upon it; or, in other words, is perfectly worthless and obnoxious in comection with their taming operations, and carnestly invite the attention of the whole fraternity to the careful consideration of this important subject, whereby they may bo induced to adopt some regulations by which these losses will be prerented, and millions of dollars saved ammally, that now perish, yieiding no profit to anybody."

## WHY DON'Y BOYS LEARN TRADES?

In answer to this question, a Philadelphia paper thus hits off the modern Trades' Unions, and their unjust and arbitrary rules :-
"It is popular to say that young men should learn trades. Those people are especinlly fond of saying so to whom manual labor or any extra exertion in the matter of gaining a living is distasteful. But such self-satisfied advisers apart, young men do, in fact, get the wisest counsel when advised to so employ their youth as to always have at their command in after times some sure means of independence. But how is this desirable end to be obtained? The entire apprentice system seems destined, under the present tyranny of the Trades' Unions, to be driven out of existence. It is a rule with many of these societies to refuse to allow their members to work in sny shop, office, or factory, with non-members or with apprentices. When the society is porverful and virtually controls the journeymen of its particular craft 'as it does
in many instimeor in this city and olsowhero), tho door is conclusivoly shat in tho facos of would-bo workors in that direction. Tho om. ployer is quite at the muroy of the socioty. It ho takes nppronticos, his jusencymen, bound by tho articlos of thoir absociation, lonvo him. Ho camot roplaco them, for tho good hameds aro all in the sumo hont. With the best of foolings, thorofore, for the boys who want ono day to be journoynen thomselvos, what can he in for thom? Nothing.
"This may be all very woll for tho mechanics and artisans of the prosont ; but for the futurel While now lahor is controlled and good pricos obtained, no skilled workmen aro growing up. We may be well off, but what is the noxt generation to do? Wo must talee caro of ourselves, sny the Unions. You must, indoed, gentlemen, but it is nono tho less a fact thant such is a ehort sightod and illiberal policy that says 'thore are workingmen onough in tho world, overy indinidual added to the force diminishos our profit, and, thereforo, we combino to keep the body whore it is.' A rensonablo protection to mechanics and othors, who have worked to achievo a special excollonco in thoir busincss, is to be approved; but such oxclusiveness, when it comes to the point of shatting young men and: boys out of opportunitics of learning tho best: tyudes, camnot ho too strongly condemmed. Such a policy will be, in the end, destructive to in. dustry."

CORN STARCH-HOWIIT IS MANUFAG TURED.

Methods for the proparation of this popular articlo of fool vary somewhat with mamufac turers, but the following method, patented 180t, by Mr. Poisen, of Paisley, Scotland, is perhap: as good as any. By this mothod tho grain is; first steeped either in alkaline water, or in water only, until tho grain is thoroughly soaked. It is then reduced to pulp by the use of rollers, of other suitable machinery. It is next passed over a siove through which the finer portions are forced-by revolving brushes, while the coarser parts remaining are retumed to be re ground. Tho husk or bran is thus separated, and may be used as food for cattle. A strean of water runs constantly down upon the siere and carries tho portion passing through, over an inclined plane or "run." The plane is divided into sections by wooden cleats which are haid across it. These cleats or dams intercept the starch which settles to the bottom, from which it is removed at proper intervals. The greater part of the glutinous and fibrous portions are carried along by the current, and are thus separated from the starch. The starch can be still further purified from the glatinous and fibrous matters by treating it with an alkaline solution which dissolves the gluten, running it through finer sieves, and rewashing it on the inclined plane.-Soientific Anicrican.

## PROFESSOR FARADAY AMONG THE MINEAS.

As illustrative of tho recklessuess of mon ongaged in sprocinlly dangorous occupations, tho American Artizan gives tho following ancedato of the Inte Professor Faraday, which it says will be now to ninoty-nine folks out of a hundred; the hundredth boing he who rouds the printed proceodings of the Roynl Socioty (England), in one of the latest numbors of which there is a rich collection of biographical facts, chiefly derivel from tho corrospondonce and note-books of Faradny. Tho famous philosopher and oqually renowned goologist (Sir Charles Lyell) were sent as Govornment commissionora to watch the inquest upon thoso who diod by tho explosion in tho Haswell colliery, in 1844. Furaday crossexamined the witnesses very portinently. Aniong othor questions, he asked" how the rato of flow of air-current was measured." An inspector of tho colliery, in roply, took a pinch of gunpowder from a box, as if it wore snuff, and let it fall through tho flame of a candle. His companion, with a watch, noted tho time that the smoke took to tavel a certain distance. The method sntisfied Faraday, but ho remarked on the caroless handling of the powder, and asked where it was kept.
"Ina bag tightly tied," was the reply. "Yes but whero do you keep the bag "" asked Faraday. "You are sitting on it," quoth the callous collier. Tho well-intentioned miners, not over-stocked with soft chairs, had given the commissioner their best substitute for a cuslion. Faraday's ayility in vacating his sent may bo imagined, so nay his expostülations, which (we are mildly in(forned) were animated and expressive. For the rest of the inquest he sat without a cushion on lis chair.

THE DRY EARTH SYSTEM APPLIED TO WOUNDS.

The Mechanics' Mayazine says :-" The dry carth system has achieved a new triumph in America. Dry sifted earth has been used as an application to offensive wounds, with magical effiect. Tho Medical Times states that thero was scase of compound fracture so offensive that it defied the effects of ventilation and the usual dsinfectants. The wound was covered with dry fearth, the odour was absorbed, and with the abatement of this came $r$,speedy improvement in the character of the wound. Encouraged by this result, Dr. Hewson has applied it with marked success in the treatment of every other diseaso attonded with profuse and offensive suppuration -ulcers of the legs, contused and sloughing Founds, gunshot wounds, severe burns, cancer. In all these it is said to have succeeded beyond erpectation, and it is now proposed to apply it to small-pox, the most offensive and virulent of all maladies.

Mustard Plasteres.-By using syrup or molansos for mustard plastern, thoy will leoop soft and floxiblo, and not dry up and bocomo hard, as whon mixed with water. A thin paper or fine cloth slould como betweon tho plastor and tho skin. The strongth of tho plaster is varied by the addition of more or less flour.

Liquid Beackina.-1. Tako ivory black 5 oz., molasees 4 oz ., strect oil $\mathrm{a}_{\text {oz., triturate until the }}$ cil is porfectly killod, then atir in gradually vinogar and boer bottom of each $\frac{1}{2}$ of pint, and continue the agitution until the mixture is complete. 2. 'fako ivory black 1lb., molasses ? 31b., sperm oil 2 oz., boor and vinegar each one pint; proceed as beforo.

Cabbonic Acid from Wells.-A corrospondont of the Scientifuc American says an umbrella lot down and haulod up rapidly, a number of times in succession, in a few minutes removed the gas from a well so foul as to instaritly extinguish a candle provious to the use of the umbrella.

Clifanina Timware.-Acids should never bo employed to clean tinwarc, becauso thoy attack the motal and remove it from the irun of which it forms a thin coat. We refor to articles made of tin plate, whioh consists of irun covered with tin. Rub the article first with rotton-stone and swoet oil, the same as recommended for hrass, then finish with whitening and a piece of soft leather. Articles made wholly of tin should be cleaned in the same maner. In a dry atmosphere, planished tin ware will remain bright for a long period, but thoy soon become tarnished in moist air.

Wheat-Bean. - If chemistry had rendered no higher service to common lifo than to analyze our daily bread, it would have placed society under a perpetual obligation. It is now generally understood that in bolting ground wheat, the sievo takes out the best and most nutritious parts of the grain. A process has of late been patented in England for grinding the bran into fine powder and mixing it with the thour. A German chemist has discovered a method by which bran may be bleached entirely white, so as to be cooked with the fiour, thus adding to its nutritive power without affecting its color.

New Mode of Shoring Hays.-The New Englavd Farmer recommends, first, smoking the interior of the barrel designed to hold the hams, by burming a bushel of smouldering corn-cobs in it, and afterward putting the hams in the barrel together with the brine. It says that, treated in this way, the hams will have the taste of smoked meat, and will keep just the same as if smoked in the usual way. Perhaps they will, but the smoky taste must come from the creasote with which the barrel is impregnated by the smoking, and why not apply the creasote direct to hams in the first place, either by the usual smoking or by a slight admixture of creosote with the brine?

## gitantar man efome.

## A TALK WITH THE YOUNG FOLKS ABOUT THE MONTH.

"Hail charming May!" Everybody welcomes the month of May, "for, lo, the winter is past, the rain is over and gene, the flowers appenr on the earth, the time of the singing of birds has come, and the voice of the turtle is heard in the land" Any taste of cold weather we may now have can be but transient, and however things may look, we know the summer is nigh.

How pleasant to be able to take walksin the fields and woods once more, to see the green grass and the blooming flowers, and to arink in the balmy air of spring. But to enjoy the full happiness thus to be obtained, we must walk with God in the fields and woods, behold his wisdom in the bursting vegetation, and feel his love shed abroad in our hearts. No doubt there is a certain pleasure in looking at nature with eyes that see only the creation, and fail to behold the Creator; for there is an inherent loveliness in these objects. "He hath made everything beautiful in his time," and beauty cannot fail to excite admiration and pleasure. But so plainly is the name of God stamped on his works that those must be blind, indeed who do not read it everywhere. The "eternal power and Godhead" of the Creator are so distinctly declared by his words, that even the very heathen are left without excuse, "because that when they knew God, they glorified him, not as Gol, but became vain in their imaginations, and their foolish heart was darkened. Professing themselves to be wise, they became fools." Fools indeed they must be who don't feel convinced by the wonders of nature that there is a God. One of the ancient heathen philosuphers was convinced of the Divine existence by reflecting on the fact, that if all men were to unite their skill and energies they could not make a single fly. He reasoned rightly. Only God can create. When we see flowers spring forth we shuuld reflect on the wisdom and power they display. Some young ladies make very pretty wax flowers, but not all the

ladies in the world, young and old cumbined, could make a single real living flower.
"Not worlds on worlds in phalanx deep, Need we to prove that God is here, The daisy fresh from winter's sleep, Prochims his power in language clear."
We all admire and love flowers. Let them remind us not only of the Creator, but of the Redeemer. He compares his beauty and grace: to the fairest and sweetest flowers, saying of himself, "I am the Rose of Sharon, and the" Lily of the Valley." Do we thus esteem Christl Is His name fragrant as the rose, and beauteous as the lily to us? Do we think Him "the chiet among ten thousand," and "altogether lovely!"
"Nor carth nor sea, nor sun nor stars, Nor heaven his full resemblance wears, His beautics we shall never trace, Till we behold him face to face."

To Ctre a Felon.-When indications of a felon appear, take a piece of rennet and soak if in warm milk until it becomes soft ; then applyit to the part affected, renewing it occasionalls, and keeping on until a cure is produced.

## MOULD POISONOUS.

Mould, howevor induced,-whether eaten in cheese, or mouldy bread, or other food, or broathed in the infinetsimal spora that are diffused from it in the atmosphere,-seems to be the source of a great variety of very serious diseases. One variety, which is found in the hold of damp and badly ventilated ships, is proved to be the cause of ship fever, which is pften very fatal.
Another variety, which is found in some localities, formed on newly-stirred earth, is the cause of feaver and ague; and in one place at one time, in Western Pennsylvania, every man who rorked in digging a canal was affected with it, and most of the inhabitants who lived in the ricinity, on low grounds, were also affected; but above a cortain elevation all escaped; and on examination with a micriscope, spora from mould on the recently made banks, too fine to be seen by the naked eye, were found floating in the damp evening air in every house where those slept who were taken with the fever, but none in the houses on a higher level, where there were no cases of fever.
Other varieties of mould, in cellars and damp places, are believed to be the cause of typhoid feres, endemic dysentery, and many other diseases whose origin cannot otherwise be accounted for. These facts should make us afraid of all moulds, and, indeed, of all decomposing materials, whether in the food we eat, or in our drellings, or even in our vicinity, where thoy can impart to the air a deleterious influence.
As corroborating this view of the case, it is a significant fact that in New Orleans, with more people in it than usual, for five summers, while the houses and streets were kept clean and clear irem all decomposing substances, not a case of fellow fever occurred-an exemption never before known ; and this, indeed, is almost proof positive that yellow fever is caused by mould, or at least by decomposition, with which mould is almays associated. - How not to be Sicle.

## HOW TO MATEE CRANBERRY PIE.

There are various ways. Some make thern open like a custard or squash pie. This is good, but not so good as to cover like an apple pie. Do not stery the berries as some do before baking, but slit each berry with a knife. This will preserve the freshness of the fruit, which is quite an important thing. A coffee cup full of berries and an equal quantity of white sugar, will make a medium sized pie. Those who like a sweet pie should have more sugar, also more berries if desired. Bake as usual. A little flour sifted over the fruit gires it a thicker consistence. One thing should not be forgotten-add a small teacupful of water. Wie will give the receipt in short: One coffee cup full of slit berries, the same quantity of white sugar, half the quantity of water, with a little Hour added or not. This is one of the very best pies for variety, in the whole course of cookery. It is good looking and good eating.

## TRIPE AND HOW TO COOK IT.

Tripe is one of the most nutritious, as well as healthful articles of food wo can procure. As an article of meat diet for summer, it is unsurpassed. It can be obtained in this market, put up in vinegar, either by the kit, whole or half barrel.
We give below two excellent methods of cooking it :
Fried Tripe.-Cut the tripe into suitable pieces, say two inches square, dip into a batter made of eggs, flour and water, then drop upon boiling lard. Cook till brown.

Tripe Rolls.-Pick the tripe up in strings, mix with a littlo flour, chopped onions and parsle $J$; moisten with eggs well beaten ; form a roll and drop it into hot fat. When nicely browned it is ready for the table.-Prairie Fiarmer.

## QUINCE MARILALADE.

Pare, core and quarter the quinces; boil them gently uncovered in water, until they begin to soften; then strain through a hair sive, and beat them in a mortar or wooden bowl to a pulp: add to each pound of fruit three quarters of a pounds of sugar ; boil it until it becomes stiff, and pour into small moulds.--E:c.

Somebody asked Baron Rothschild to take venison. "No," said the Baron, "I never eat venison; I don't think it is so coot as mutton." "Oh," says the Baron's friend, "I wonder at you saying so ; if mutton is better than venison, why does venison cost so much more?" "I vill tell you vy; in this world, the people always prefer vat is decr to rat is sheep."

A tourist, stopping at a French hotel, saw the phrase "fresh water chicken" on the bill of fare. Desiring to know what this meant, he sent for a dish of water chicken. He tried it, and finding it excellent, recommended it to the rest of his party, ladies and all. All liked the dish wonueríully, and so became frog-eaters without lnowing it.

Why is a Baby Like Wheat?-Because it is first cradled, then threshed, and finally becomes the flower of the family.

The Earliest Bird in the Morning.-A Huntingdonshire labourer said to me: "There's a saying ' up with the lark;' but there's a bird that's earlier than the lark. The cuckoo's the first bird to be up in the morning, and he goes round and calls the other birds. You may hear him a hollering and waking them ; and then they set up their charm." -Notes and Queries.

Mis. Mramber's Advice.-"My other piece of advice, Copperfield, you know. Annual income, twenty pounds; annual expenditure, nineteen, eleven and six. Result-happiness. Annual income, twenty pounds: annual expenditure, trienty pounds, ought and sic. Result misery. The blossom is blasted, the leaf is withered, the god of dily goss down upon the dreary scene, and-in short, you are forever floored."

## guntry.

## " LITMELE BY LITTLE."

"Little by little," the torrent said, As it swept along in its narrow bed, Chafing in wrath and pride;
" Little by little, and day by day," And with every wane it bore away
A grain of sand, from the banks which lay
Like granite walls on either side.
It came:again, and the rusing tide Covered the valley far and wide,

For the mighty banks were gone;
" Little by little, and day by day,"
A grain at a time, they were swept away,

And now the fields and meadows lay Under the waves, for the work was done.
" Little by little," the tempter said,
As a dark and cunning anars he spread
For the young unwary feet-
"Little by little, and day by day, I will tempt the careless soul astray Into the broad and flowery way, Until the ruin is made complete."
"Little by little," sure and slow, We fashion our future of bliss or woe, As the present passes away. Our feet are climbing the stairway bright, Up to the region of endless light, Or gliding downward into the night,
"Little by little, and day by day."

## datuix.




[^0]:    "During the peeling season, there should be a sufficient number of hands detailed for the exclusive purpose of looking after the bark after it is peeled; never allowing it to remain exposed longer than one day to the weather if fair, and always have it turned ross side out, and so laid that it will be sure to shed all the rain let it come from whataver quarter it may; during the bark peeling season storms rarely come from a due northern or westerly course, hence you can always let the flesh side face either of those directions without exposing it to damage from that cause. It is well lenown that most men who peel bark for sale, pay but litile attention to having it well secured, and in many instances I have known them to turn it flesh side out, so dhat it would curl up nicely and yield more to the vender and less to the tanner when measured. In all regions where competition exists, the man who peels bark for sale being fully aware he can sell his bark readily at a large price and for cash, he is not apt to be very particular, either in regard to quality, or the manner

