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Vol. I. No 2.

Toronto, Thursday, December Ist, 188 s.
\$1 per annum, in advance.

## RURAL NOTES.

The Canada West Farm Stock Association has ostablished $\Omega$ branch of its business at Waukegan, Illinois, thirty-five miles north of Chicago. A dotachment of the Bow Park herd has been looated there, for the greater convenience of selling to western breeders. Success to the new depar. ture!
Tre "Davy" herd of Devon cattle in England, which has existed for nearly 200 years, aud won a high reputation, was recently scattered by an auction sale. A yearling bull brought 100 guineas, a bull calf 90 guineas, coms sold for 80 , 75, and 60 guineas, and the whole herd averaged $£ 31$ stg. per head.

Augestus Storn, of Brookiyn, N. Y. (may his tribe increasel), has presented to the State of Connecticut a well-stocked farm, with suitable buildings, located in the township of Mansfield, soven miles north of Willimantic, as a foundation for a State Agricultural School. The gift bas been accepted by the State, an anmual appropriation made for the support of the institution, and a board of trustees appointed.
The British public is opening its eyes to the merits of American, which includes, in their in definito ray of speaking, Cauadian cheese. An Euglish paper says: "American cheese is com ing into the market in very great quantities; from 90,000 to 40,000 cleeeses havo been landed in Glasgow every week during the last two months. Every lot is picked un as soon as it arrives, the quality being considered fine."

Hers is an item for those who desire to get rid of stumps. It is given for what it is worth, and may be easily tested by tho curious: "In the antumn or early winter bore a hole ono or two inches in diameter, according to the girth of the stump, and about eight inches deep. Put into it one or twe ounces of saltpetre, fill the hole with water, and plug it close In the ensning spring tako out the plug and pour in a gill of kerosene oil and ignite it. The stamp will smonlder away, without blazing, to the very extremity of the roots, leaving uothing but ashes."

Tas (English) Gardencrs' Mannsine says, that the importation of apples into Britnin from tho United States, from tho nbundant crop of 1880 , amounted to nc less than $1,348,806$ barrels, of Which 599,200 were shipped at Now York, and 510,900 barrels at Boston. On this item, tho Country Geuleman remarks, "it would bo very gratifying to us, were it not for the fact that many of them were badly put up, to the injary of their repatation." Naturnl curiosity impels one to ask
how many barrels of apples were shipped from Canada during the season reported. Very likely the original statement included this, but it got sifted out while passing through tho American papers.
Betternile is now being proclaimed, in certain quarters, as a panacea for many of the ills that fesh is heir to. It is said to purgo the human system of refuse matter, to curo dyspepsia, and to be a remedy for sleeplessness. All this will be goud nows to those who are fond of the beverage. A show, at least, of scientifio reason is given why buttermilk should aid digestion. The acid developed by churning is represonted as aiding the sceretion of gastric juices, which seemes highly probable. Many would as soou take a dose of naussous physic âs driuk butlermilk ; still, if it is the efficacions medicinal agent which sowe authorities aver, wo had better avail ourselves of it, even though wry faces have to be made in the process of gulping it down.
There is an ovident "boom" in the direction of bee-keeping. Honoy commands a high price, and the success of such men as D. A. Jones, Dr. Nugent and others, inspires a host of would-be imitators. But the trouble is, that faw have any intelligent idea of the cost of success in bee-keeping. It involves, first of all, an intelligent knowledge of apiarian principles. This may be obtained by study of books on tho sabject, of which there is $n 0$ lack. Then the manipulation of bees is an art only to be grined by practuce. Most people make a failure of it at the outset, aud have to pay for some lessons in the school of experience. Then the temptation comes to give the thing ap in disgust. It is only those who persevere in the face of difficalties who achiere success. Pcrseverance is a rare virtue, and hence there are few really successful bee-keepers. In this, or in other pursuits, success has to be conquered.

The Governor of Iliuois, at the instance of a Committec of tho National Shortiorn Breeders Association, has issued a proclamation prohibiting the importation of "any domestic animal of the borine species" into that State from certain districts infected with pneumonis, unless accom. panicd by a certificate of health proporly signed by a duly anthorized veterinary inspector. The localities placed under ban are as follows:-Penn sylvanis-Counties of Lehigh, Bucks, Mont gomery, Berks, Delswarc, Chester, Lancaster, York, Adams, and Cumberland. New Jorsog -Counties of Bergen, Morris, Essex, Hunterdon, Somerset, Niddlesex, Monmouth, Mercer, Ocean, Burlington, Camden, Gloucestcr, and Atlantic. Maryland-Connties of Cecil, Hartford, Baltimore, Carroll, and Howard. Now York-Counties of Putnam, Westchester, and Queens. Dclawaro-

Connty of Newcastle. Connecticnt-County of Fairfield.
There is no end of "sells" in the nursery business, and peoplo cannot be too careful in dealing only with respectable and responsible parties. Peter Henderson says that no season passes but some protended dealers in nursery stock have the andacity to plant thomselves right in the centres of our large cities, and handreds of our smart business men glide smoothly into their nets. The very men who will chuckle at the misfortunes of a poor rustic when he falls into the hands of a mock auctioneer or a pocket-book dropper, will freely pay $\$ 10$ for a rose plant of which a picture is shown them haring a blue flower! And this kind of imposition will continue so long as men purchase trees and plants without knowing anything about them, or without availing themselves of the horticultural information which is now offered in so many difforent ways, or withont making it a point to deal with those who have a character at atake and a business reputation to maintain.

The dry earth closet system is the best mode of utilizing that richest and most neglected of manures, the contents of the privy. One difficulty about the adeption of this method is that of emptying the bos in winter of its solidly frozen contents. Prof. Caldwell, of Cornell Cniversity, has hit upon is simple way of -onquering this difficulty. He procured a bos of galvanized iron and one of the cheap whelbarrows sold at country hardware stores; knocked off the scoop.like body of the barrow, and mounted his bor in its place on the frame of the vehicle, without, however, fastening it there, and an opening was made under the seat of the privy large enongh to receive them both. When the bor was full it was wheoled to a distant part of the gardon, which, as usual in a village residence, extends back from the rear of the honse, and was dumpod off so that it would lie bottom side up on the ground; a small kettlo of boiling wator was poared over it, and directly it could be casily lifted off the solid mass within. Till this simpla but ingenious plan was arranged he became almost discouraged overy winter by the complaints that were made of the troublo founa in remoring the contents of the closet; but this substitute for the old-fashioned and still prevailing style of an ugly, onthouso at the back side of the yard over an offensive water and air-pollating vault, was so convenient and hor.thfal that he could not give it ap for any such obstacle; necessity becamo again the mother of invontion, and henco this contrivance, which, though morth more than many a patented idor of which wo male common use, has still not sought any recog. nition at the Patent Office.

## FARM AND FIELD.

## A SELHMMADE H.IHMER.

A corrospondent of the Connecticut Farmer tolls a racy story with a big moral to it, about two brothers who were farming in partnership, each working on his own account the half of every field. The land was poor, the work hard, and tho returns meagre., One day the yougger brother of the two, Robert, was hocing corn. The sun shoue like fuys, nud he sweated in proportion. "Corn *reather for certain," he said to himself, as ho was resting for a little, hoo in hand, with a mighty ache in his back, and a delnge of swent on his face. "This corn ought to stretch a little faster," said he; "why don't it?" But, in fact, the corn had to stretch pretty hard to get up as high as it was. Plant food was very scarce in that soil. It was to the corn what Mother Hubbard's cupboard was to her dog when a bone was wanted-"bare." Yet the grass and weels grew in a tangled mess, and multiplied, ns children will, wherever victuals are not abundaut. As Rabert surveyed the scene his cye caught one rauk, dark green hill, that stood out in bold relief among the rest, tall and luxuriant, spreading its leares all around, and drinking in the heat as if it liked it. Then be remembered that in carting out his scanty steck of manure an anle had broken at that spot, spilling the load. When it was gathered up half a peck or so of manure was left in a hole. This hill grew on that place. Robert resumed his hoeing, and his hands were not busier than his braies. Ho pondered what ho had seen, and received instruction. When he went in to dimer he carried in his head the germ of an agricultural revolution. All summer he worked on, often thinking over the problem of that corn hill. At husking time four big stalke, each with two good ears of corn on it, solved the problem, "Why wasn't cerery hill as good as that ?" Ho knew why.
"Hom much corn aroyou going to plant, Bob?" asked his brother Georgo nest suring. "I don't lnow ; as much as I can manure," said Robert. A ten-acre field was assigned to this crop. George spread what manure he had over the five acres that fell to his lot, but Robert put lis manure on 50 thick that he had only enough to go over an acre and a-quarter. "Are you going to make a compost heap, or what?" asked George, as he survaged the prodigal cont of manure, and the small piece of land. "I am going to tryand grow as much corn as you without hoong so much ground," was the reply. With less ground to work, it was better ploughed, and more thoroughly hoed, than if there had been four times as mach land to go over. The sight of that crop put new life into him all summer. It was a book that did him good every time he studied it.
"Well," said George in the fall, "how much corn hare you got? I're got 212 bushels of good ears, and 80 bushels of nubbins off my piece." "I're got 200 bushels of gnodears," answered Robert. "How much small?" "Not half a bushel." "If yon had done as I told you, you would hare got more corn." "A little more small stnff, hat my land will raise a good crop next year without any mannre, and on your five acres the very weeds mill have the yellow jaundice. George, I've made a resolution not to cultirate where I can't manure." "You'll du big things then, if you are going to put all your crops into an acre and a quarter every sear." Said Robert, "Next year this corn ground will raise its crop withont any more manare, and the year after; big crops, too. If I're got moro ploughed land than I can manure as I ought to, I'll turn it into nasture. This ploughing and skimming is played ont."
A new lenf had been turned over. But another
pago of truth caught his attontion. Passing through tho barnyard ono day, just after a smart shower, he crossed a coffee-coloured brook, flowing nlong towards the rond. Ho followed its course, aud saw into what a giant growth it had forced the wayside weeds. Then ho said: "I will givo that strong coffee for my corn to brenkfist upou." So ho dill, and next year his manure went twice as far, for it was twico as rich. Ho had learnt two groat lessons, which many a farmer never masters through the wholo courso of a loug lifotime: the value and economy of manure. The rest of the etory is soon told. Ploughing less land, he had more for hay and pasture, increased the number of his stock, made a bigger pile of manure, enlarged his area of plough-land, and gradually worked his farm to such a point of fertility that it bothered him to tell which field he should mow and which he shonld pasturo. Improved culture, improved stock, improved buildinge, improved implements, improved circumstances, followed one aiter the other. At twenty-eight Robert Stuart might be seen sitting on a stump, in the burning sun, surveying a discouraging corn-field. At fifty he might bo seen sitting upon his verandah, viewing broad and fertile acres, good crops, fino wellbred and sleck-looking cattle, and overflowing barns, environed by stacks of hay and corn. "The New England horror of Western competition" does not rufle his peaceful and contented mind. Wise and happy Robert Stuart I May his tribo increase 1-Western Advertiser.

## HOPS.

Billy Barlow planted hops. Hops were worth 40 cents per pound, and he figured tho income frow ten acres, and said to his wife:
" Maria, we've struck a gold mine, and its name is Hops. Yon can order the piano now, and we will trot the boys of to college."
"But do you know how to growL ps, William?"
"Dou't be a fool, Maria; hasn't the old vine in the corner of the garden borne hops since Tom was a baby, with no help but the dead butternut to trine on? Do I know how? Why it is harder to kill a hop vine than a burdock. But just thinkforty cents a paumd!"
Barlow paid a high price for hop roots, for they are always scarce when hops are up. His neighbours sold him hop poles at about their own price ; for how could he banter when each individual pole ras destined to bear, before the sunshine and the mind, a tasselled banner of hopsotherwise gold. Then he built a big hop kiln, with a gilded fish, six feet long, to keep the ventilator before the wind. Then Barlow sat in tho shade and made plans as to what he should do with all the money. Sudenly tho hops went down, dorn, dows. The lower they went the less buyers wanted them, and the more particular they became as to quality-nud Barlow's were not above criticism. Then he said to his wife:
" Marin, I am busted on those blamed hops, as suro as shooting. If it hadn't been for you and your wanting the piano, and teasing to get the boys off to school, I would have kept out of this miserable pickle."
Barlow's fancy hop house is now a pig-pen and hen house combined, and Berlow has gone into beans wiser and sadder, but poorcr.
Hopkins planted hops. He bought Barlow's hop poles at half price, with all the hop roots ho manted thrown in.
"How is it you plant hops when they are so chesp?" he was asked.
"Tho price is likely to be better by the time mino are ready for tho market," was the reply. "Father and I grew hops years ago down East; father was nerer frightened about the prico of hops."

Hopkins did not got rioh on his first crophops recovered slowly, but he kept right on, oxtonding his field, giving the best oulture, and producing a first-class articlo. I pass his placo often, and my wife and I alwaye notico the beautyof the hops and the careful attention given. The last time wo went by, we saw that Hopkias had been painting his house, had put on an addition theroto, with wide cornice and blinds; that ho had out down the windows level with the ground floor, had put in double black-waluut front doors, with coppor knobs and bell handle; that he had planted ornamental trees and shrubs on his grounds, and kept the lawn mover whirling. Hopkins drives a nice-looking rig on the street, and is said to carry a saviugs bank pass-book, into swhich tho hops are entered when converted into hard cash. Hopkins is consulted on important questions of Church and State in his community; his boy has married the rich widow's pretty daughter, and all goes as salubriously as strawberries into the small boy's stomach. Whether hops goes up, or hops goes down, Hopkins plants hops. Barlow knows beans-Hoplins linows hops.

Monal.-Look before youl hop, but having onco considerably hopped, stay hopped.-C. A. Green, in Rural Nein Yorker.

## A New Insect pest.

Bore than two years ago wo warned Canadian farmers, that in New York State, the clover crop was suffering from the attacks of a now and formidable enemy, which unless great vigilance was used would soon get a footing among us. The insect was the clover-seed midge, Cecilomyia trifolii, closely allied to the whent midge, C. trilici. We have lately scen in the country papers aloug the line of the Canada Southem and elsewhere, complaints of the rarages of an insect nuswering tho description of this pest, and now suspicion that the midge has attacked the Canadian clover crop is rendered a certainy by the receipt frora Mr. O. F. Springer, of Burlington, of a parcel of clover-heads positively full of the milge's larvo.

The mature, winged insect resembles the whent midge so closely that none but an expert could distinguish them. The larve of the clover midge is of a bright orange-red colour and rather less than the cighth of an inch long. The egge of the insect aro laid in September on the heads of clover or some other legume. The perfect flies appear in Juuc, Iny their eggs, and the second brood turns up again in the winged form in September.

Wo regret to say that the expericuce of ine New York farmers who havo suffered from tho visitations of the midge is, that there is but one method of subduing it, namely, to cease growing clover in the districts where the insect prevails. It will, however, probably bo found at least partially effective if farmers in the infested districts will merely cut their first crop of clover somerrhat carlier thau usual, say just as the irst heads are forming, and if they will cease endeavouring to get a seed crop.--Canada Farmer.

## cluSER FARITING.

The subdivision of farms, says an exchange, by the farmer of the future, means a change and a diversity of products, no less than the competition of other sections. For it is plain that if an acro can be made to produce $\$ 100$, where before fonr acres produced $\$ 25$ each, the samo arca will support just four times the former amount of agricultural occupation, whether by new methods and increased care the yield is of the same product as before, or by the introduction of a new interest the cultivation of tho lmad is turned to better adrantage. Up to a certain point there can be no doubt that two blades of grass may be made to grow

Where only one grow ; and where tho farmer who now raises fifteen bnshels of whant wo the acre might raise thirty, or who now grows ferty bushels of corn might produce eighty or one hundred, ho has not yet given such a fair trial to his prosent opportunitos as to entillo him to oxperiment with an inoroased acroage or to turn his lands to now crops. Tho futuro farmer will, first of all, by all methode not oxhaustive of tho soil, so till his lands as to get the largest available yiold of tho crops which he notr cultivates with profit.

## ABSORBENTS.

The question, What to use as an nbsorbent in stables? is one that must be answered by each farmer, according to the convenience with whioh he can obtain the several substances named. Sand is undoubtedly, of itself, better to spread upon muck or clay lands than eithor muck or clay, but the quantity that would bo likely to bo used in the stables would have an effect upon a olay farm or a large muck sivamp, so small as soarcely to bo appreciable. In practice, farmers will use suoh absorbents as they can get. Where sand is plonty, it will bo used largely by good farmers, even upon sandy land. Sand and sarpdust aro each very clean absorbents to use in stables, whilo muck is decidedly otherwise. Whatever may be used as an absorbent in stables, should be made as dry as practicablo, and kept so till used. Many years ago we built in aldition to our barn for the expross purpose of laying up sand and dry earth for spreading upon the stable floors, and we know of no investment that has paid better, The addition is at the rear of the stables, running their wholo length. It is ten feet wide, and will hold eight or niue months' supply of dry material. It is filled in during the fall, while dry, and being on the north side of the stable, keeps out a great amount of cold during the winter, and yet it never freczes so hard that it cannot bo used during the coldest weather. If planning a now barn, wo should as soon think of dispensing with hay room as to neglect to provide suitable room for dry earth. And yet tre do not consider dry earth in itself a manure, whether it be sand, loam, or muck.-Neto England Farner.

## CLOVER AND DROUTH.

With the experience of the present season I am disposed to value red olover more highly than ever before as a drouth-enduring plant. Its intrusion into our meadows has this year proved a blessing, espocially to those who, like myself, believe in early haying. I cat my grass early in July, and, the clover springing up immediately, soon grew a foot high and blossomed. I then turned in my cows and kent up a flow of milk which, without the drouth-proof clover, would have beon impossible, except bydaily feeding with green corn or other milk-producing equivalent.

## ASHES FOR FERTILIZING.

Unloached wood ashes contain all the constituonts of the plant food that tho orlinary or wornout soil needs, except nitrogon. By their chemical action, they render much of the inert nitrogen in coils available, and in thet way may be said to furnish nitrogen. This is true of lime, and on this power of making nitrogen available, the greatest value of lime, when applied as a fertilizer, depends. Ashes also have a good meohnnical effect upon the soil, especially heavy clay soils, which are mado lighter and more porous, so that air and water circulato more frecly. Ashes do not suffer wasto by being washed out, to the extent that is true of tho more soluble aud concontrated fertilizors sold in the markets-their effects are therefore more lasting.

## THE DAIRY.

## GOOD COI PFRHFORIKANCE.

Editor Rumar, Canadian,-Sceing in your ipsue of lat inst. that Colnnol Thomas Fitoh, of Now London, Conn., hnzards tho opinion that "more than half of the cows registered in tho 'gilt-edged rogister' of tho American Jorsoy Cattle Club will not givo au avoraging ten quarts of milk daily, or make one pound of buttor a day for throe months;" aud referring to the recent salo of the bull Polonius for $\$ 4,500$, also a more ordinarylooking thirteon-year-old cow for $\$ 8,000$, of "tho Alphaa Craze strain of blood," ho says: "Dorn with such wild-cat theories, and give us good blood at fair prices and less humbug." I wish to show Colonel Eitch I can do it. I keep two cows; grades, a cross between Durinam and Ayrshire. Both had calves last spring. For three months after thoy gave fivo "Yankeo pails" of milk daily, -that is 52 quarts, or 26 quarts each cow per day. Now they givo 40 quarts, or 20 quarts each. The pasture is not so good now. They get nothing in the summer esecpt the grass thoy gather in the field, and it is not always abundant. I am sure with better feed they would yield more milk. Out of this milk we sell some daily, fresh from the cows. Tho family has plenty of cream and milk for all purposes. We feed a calf on sweet skinmilh. It gets 15 quarts daily; and during tho last 30 days we made 82.2 pounds of butter. Who heats that?
R. Mu:ro.

Georyetoron, P. F. I., Scpt. 15, 1881.
['The above is an excellent showing for a couple of cows, and speals volumes as to tho mingling of Ayrshire and Shorthorn blood. There is no better cross for dairy purposes; and if our dairymen would only try it, they would find it so much to their interest, that they would be sure to adopt it, and weed out the common cattle whose poor performance makes such a discouraging hole in tho profits. Liet any man figure up the financial results of keeping up a herd wholly mado up of such coms as described by our correspondent, and ho cannot fail to seo the folly of keeping poor cows.-Lid. R. C.]

THE COST AND PROFIT OF KEEPING A COW.

Dairying fould be a more money-making business if greater care were taken to keep only the best cows. Many cows are a dead loss to their owners. This is conclusively shown by a prominent New York dairyman, who has been investigating the business of thirty dairies with the following results:-
"In the thirty dairies there are 989 cows, an average of about 31 cows to the dairy. The Whole number of pounds of milk sent by them to the factorics during the season was $3,658,045$. This gives an average of 3,300 pounds to the cow. I caloulate that it takes at least ono cow to each dairy to supply the family with milk, therefore 30 times 8,900 is to be added to the abore amount, or 117,000 pounds. Last season was an exceptionsl one, and tho factories were run for $\Omega$ longer period than usual. Thay were open on an average fully seven months, or 214 days, If thes bo deducted from 365 days, there will be a remainder of 151. The average time for a cow to go dry 18 about 60 days, aud this, taken from 151, leares 91 milking days, in addition to the time during which mulh was sent to the factory. This 15 nine trenty-firsts, or somerrbat less than one-half of the factory time. But it comes at the beginning and end of the season, when the cors will not average so good a yield as during the time of pasturage, and I think that onc-third of the amount given during that period would bo a fair nverage for the remaining portion of the year.

We are now in a position to get at tho total annunl yiold of these 039 cows, and it may be tabulated as follows:-
Wholo number pounds of milk bont to fact rios. 3,058.946 Yield of ono cow to ondi dairy, for family use. 117,000 Ono-thirdu ofaboveamount, for 01 day semaining. $1,219,018$ Total number of pounds por yoar for 930 cows $4,905,593$
"If now we divide this nuount by the number of cows, wo find that tho nnumal yield for each cow was 5,320 pounds, a result which may bo looked upon as quite satisfactory. Ono of tho questions unon my postnl whis the 'average number of pounds of mills to ono pound of checse. In every instanco this has been answered, and I presume in accordance with the factory figures. The range of these figures is from 9.67 pounds to 11 pounde, and the average of the 80 factories selected is 9.8104 pounds. A calculation mado upon this basis, therefore, would give, providing tho ontire season's milk had been mado into checse, 542 pounds to each cow. Multiplying this by 8.717 cents, which was the average price of cheese for the entire season upon the Utica market, the result shows that the average monoy product of ench cow was $\$ 47.25$.
"Wo now turn to an entirely different set of figures, which are to show us what is the cost of producing this milk. The first item, of course, is the food of the cows, and in regard to this the estimntes of different men differ greatly. Tho discrepancy probably arises from the different methods of feeding and the various kinds of food used. The estimates range from $\$ 15$ to $\$ 30$, and in tro cases even rise as high as $\mathbf{\$ 3 5}$. It is also probable that the quality of feed ranges from simple grass and hay to oat and corn meal and bran. But the average cost of feeding our thirty dairies amounts to $\$ 25.26$ per cow. Then comes the expense of labour in taking care $\therefore$ : the darry, and the average cost per hoad of cattle is $\$ 6.67$. The item of manufacturing the cheese rauges from $\$ 1.25$ to $\$ 2$, and c.s it may be interesting to see the different prices charged at various factories I give them:-Siarting at $\$ 1.25$, they go to $81.30, \$ 1.95, \$ 1.40, \$ 1.45, \$ 1.00, \$ 1.52, \$ 1.56$, $\$ 1.75$, and $\$ 2$. The average price is $\$ 1.43$. This makes the manufacture of 542 pounds of cheese cost $\$ 7.77$. Here, then, are the cost figures :-

| Feod | \$25 20 |
| :---: | :---: |
| Making | 777 |
| Labour | 667 |
|  | 3970 |

"We found the money product of the cow to be $\$ 47.25$. If we deduct the cost of that product riz., $\$ 39.70$, we have a balance of $\$ 7.55$. Vers well. That would be a small, but at least a respectable, percentage of profit, if it were such. But is it? If so, what is going to pay for the taxes and insurance, for the ineritable expenses of repairs to buildings and machinery, to say nothing of the interest on capital invested and the cost of supporting $\Omega$ family? The probability is that in the case of average cheese dairies the product of the cows during the sear 1878 was barely enough for their own support. My cards called for the number of horses, the cost of feeding them, and their value, inasmach as they are indispensable adjuncts of the dairy. The estimate generally is that a dairy of 30 sows requires the use of a span of horses. But I have left out of the estimate the expense of keoping horses and interest apon their value, which ought properly to be included, for tho reason that it would make the estimate look altogether too formidable. It is bad enougls as it stands, and I would fain im. prove it if possible."

A creanery is to be ostablished at Loondes. borough. Of the $\$ 2,000$ capital required $\$ 1,200$ has already been subscribod, and tho balance is expeoted in timo to commence work carly next spring.

## HORSES AND CATMEE.

## THE PERCIIEROATS.

The Percherons, in Ontario, are fow in number, although some very fine specimens of the breed are now to bo mot with. A number of practical agriculturists recently visited the estab. lishment of Messre. Hiram Walker \& Sons, Walkerville, nenr Windsor, in order to seo some very fine Percheronsquurchased by them not long previously from a number imported from France.

Mr. Hirme Waller describes the Percheron as follows:-
"The Percheron is a saug, olose bailt horae, easily kept, jat a quick action, is a fast walker, and, for a hosvy horse, a last trotter; ho is good.tempered, and has great endurance. The majority aro grey, but in the lot I boufht from there woro Buveral black horses and some baye. "To cross our stock, or oren as they are, thoy will, in my opinion, mako excellent general-purpose liorses. They don't eat moro than half what othor horser eat to koep them in the same cundition.
"Our Clydes, I think, would get better action and a lighter carriago it orossed mith the Percheron. The Peroheron lias good bono and atrength in compnet oompkes. A Percheron horse weighing 1,800 pounds will go twenty miles as light as a pony.
"A proparly selected, large, well. doveloped, light, 00 mmon mare crossed by a Percheron horse, shonld give a good carriage horse. I think the Perdheron colts will be equal to any imported horses. Wo hare a large number of mares in foal by Iomulus."

The horse in the accompanying cut, while in many respects a pretty faithful illustration, hardly conveyz a just idea of the springiness and viracity of the Percheron as represeuted in Hiessrs. Walker's stables. The lattor consisted of ono stalliou, three mares and two colts.

## kINDLY TREATMEYT OF DOMESTIC ANIMALS.

Nothing can be more foolish than the attempt to catch either a horse, cow, pig, sheep, or dog by running after it. How many futile attempts to catch a horse lave been made in pursuance of the above method! How many times has the horse, just as the hired man was about to walk up to its head and at the point of catching it, made a sudden wheel and shown the brightness of its shoes! At this juncture we have seen a little boy, who had never struck the horse with a whip, but who had given the animal many an apple in days gone by, stroking lim and playing with him-at the time we have seen even this little fellow take the horse quietly by the forctop, and together they would go to any des. sired point. Or perhaps a lady makes her appearance, in whom the horse recognizes a friend Who has frequently regaled him with a lump of sugar. He does not even wait for the lady to come to him; for he goes to her, and the simplo lump of sugar will enable his mistress to lead the noble horse to his stall, a task which all the chasing and yelling of the hired man has failed to accomplish. The intelligent animal is attractod neither by the personal appearance nor the tone of voice of the rough fellow who strives to rule by force alone.

Another individual altempts by ranning and yelling to catch his cow or cows. Why do these naturally gentle animals run away from him? Becsuse they remomber full well that on former occasions, when he has succeeded in catching them, a series of blows from some henivy cutgel
has boen their roward. Is thore not somo bottor why of seouring tho good-vill of our horis and in managing them as wo wish? Thore is a hollow place on the head of overy oow, just bohind the junction of tho horns, which 28 commonly full of dust, short hairs, and the like, enusing tho nai. mal an itohing sonsation. It is a sourco of ex. tromo plensuro to tho cow to have the apot scratched, and (since from its location the animal horself caunot reach it) hence, when her keoper approaches her, either in the stable or in the pasture, an orn of good feeling may at once bo ostrblished if duo attontion bo paid to seratohing this hollow spot. If, nt your first approach, the cow is a little slay, offor hor from one hand a nubbin of corn, while with tho other hand you gontly scratch the particular spot in her hend montioned above. In a very short time, whenever you go into their pasturo, the whole herd will come to you, to lanve their heads scratched, and you will soon bo satisticd that it is as easy to have them follow you as to resort to driving and loud noiso.-American Cultivator.


## 'POLLED CATTLE.

A writer in an exchange saps: "No farmer who has owned a head of improved poll cattlo will ever again have cattle with horns. A dozen of the polled cattle will drink at the same time from a trough which would accommodate but one animal having horns. The same number will crowd together under a shed for shelter the whole space whici one horned auimal would consider neces. sary for its comfort, driving its fellows ont. With these polled catlle the farmer and the shipper of stock need bave no fear of damage resulting from the goring of horns. There is now a demand from all parts of the country for young bulls of this breed, the progeny from a cross of these on horned corrs being for the most part hornless. The bulls are notably quict"

## HOW TO CATCH A IIORSE.

If the horse is stiy and hard to catch, take fincly-grated castor, oils of rhodium and cummin. Keep them in separate bottles, well corked. Put somo of the oil of cummin on your hand and ap. proach the horse on the windy side. He will then movo toward you. As soon as you can
reach him rab some of tho oummin on his nose, give him a little of tha castor or anything ho likes, and gat a few drope of tho oil of rhodium on his tongue. Aftor this you cau make him do nearly orerytling you want. Troat him kindly, feed well, handlo gently, and your victory is cor-tain.-Turf, Field and Farm.

## NOTES ON FARM STOCK.

It is nearly time to cousider tho winter feeding of farm stock; at least this is the month to malso all tho plans and got overything in order for tho cold season that will soon be at hãnd. The question of winter feeding in all its bearings is an im. portant ouc. Thers is a constant outgo of fodder, nud the problom is to so govern the expen. diture lhat the best returns may be obtained. Not only must the animals be "kept," but thoy must bo kept rell, that the oponing of the new year of pasturage may not find them run down, or as it is termed "spring poor." Aside from bringing the stook through in a healthy and vig. orous condition, there is the manure to be considered. This should be a good dividend apon the winter's outlay, and there. fore it should have a place in the plans for winter feeding. It cannot be too strongly urged that the best manure is made under cover. Tho same system which gives the best protection and care to the animals will in. sure the most satisfactory returns in the mauure from them. Feding for manure is more and more to be a leading factor in the winter leeping of farm animals. A plenty of the best feed, a free supply of pure water, and warm quarters, are three essentials in profitable winter farming. This does not mean that the animals shall be in the stalls and stables all the time, but it does preclude that out-ofdoor, straw-stack feeding when tho animals must stand in anprotected, shivering groups the whole night through. Shedsand good ones-will pay for themselves in the better manure that will be made in them-not to mention the economy in food for the animals thus protected.American Agriculturist for Nocember.

## TENDER-FOOTED HORSES.

An old man who has had much experience in handling and dealing in horses for more than half a century, said recently that ho had never known"a horse to get "tonder-footed" that was kept looso in a sled and yard, or in a box stall; that turning round and treading with their forward feet in the manure bept them constantly moist and soft: His theory secmed perfectly reasonable to me. "I lave no box stalls, but. I use slavings for bedding, and evory morning with a large shovel I move the wet shavings from under the horse's front feet, and then the last thing at night cover these with dry shavings for him to lie on." He also remarked that he had never known a fiat-footed horse but what was a great worker.
Young cows do not give as rich' milk as those of miature age do.
Soure of the Haino farmers are coming to the conclusion that more oren and less horses would be an improvemention the present order of things:

## SHEEP AND SWINE.

## SHEEP FARMING.

The epecial adrantages of sheep farming are thus tersely summed up by Professor Brown: "Fower risks by death; two crops por annum; consolidating and manuring light soils; rich manure at all timos; moro oasily kopt on poor pastures; less cost in buildings and wintor managoment ; greater returns for money invested."

The limited sizo of the farms, the absence of any largo area adapted for sheep runs, aud the nocessity for providing fodder for six months in the year, during which the sheep are in tho yards, havo all tended to discourago sheep farm. ing on a large scalo in Ontario. But Ontario is, on the other hand, a country confessedly well adapted to the raising of sheep. Tho dryness of the atmosphere preserves them from tho diseases to whish thoy aro most snbject, and if such com-
cause the steamship companies olinggo for sheep at por head, it is better to raiso and feed largo sheep. Tn this, however, as in everything elso, tho demand must ultimately settle the question of production or supply, and it will bo tho object of the Commissioners to indicate what-according to $n$ fair viow of tho whole evidence-is tho true pelicy of the Ontario farmer in reapect of shoep. raising at this momont.
The sheep trado of Canadn, outside the domestic demand, assuncs three distinct forms: First, there is the trade in thoroughbred long. wooled shoep with the States; secondly, thero is a largo trade, mostly in lambs, for butchoring purposes, with the Statos; and lastly, thero is the alinping trade in mutton sheop for the British market. Then, for wool, there is for the coarso wools a large domand always from abroad, and a limited demand for local purposes at home, and, recently, an active domand both for home purposes and export for a medium wool, partaking largely of
sheop have thoir ropresentatives in the group represented in the accompanying illustration, 8ays:-
"The United Statos has litherto been our best markot for Cotswold shaep. The Kentuckians have been our boat cubtomers, and they are very partioular about the quallty of the wool, making that a specialty, and wo have been and I a marked improrement in the quality of the wo haro made a marked improvement in the quality of the wool. There is a cincrenoo in tize quailiz of the wool in ulforeat parts of tho same sheep. Rhero is a tendenoy to grosser wool on tho whighs. consiaer that objectionable. The arst pisce where our Kontuoky oustomars oatoh hold of a sheep is tho thigh, and if they find protty good vool there they
 supply Cotswolda for tho Wost,
This ovidence is sufficient to show that thero is a constant and active demand for both thoreugh. lred Cotswolds aud Leicesters for breeding purposes in the Statos, with a prospect of the thoroughbred Southdown being also in request.Condensed from Report of the Ontario Agricultural Conmission.


COTSWOLDS.
plaints as the rot have ever been known, it has either been in the case of a new importation, or the result of some scandalous negligence. It may be broadly stated that in Ontario sheep are sub. ject to no epidemics, nor, as a rulo, to any futal form of dicease. And that Ontario is a most favourable broeding ground for sheep is proved, from the frequent reference in the ovidonce to the United States as a market for our thoroughbred sheep noeded to improve their flocks, and which cannot be advantageously raised ou the other side of the border line. The demand abroad for the long close wools, in which a large export trade has been done, while the treeds and other goods chiefly manufactured in Canada required a wool not profitably gromn in this country, was for a long period a strong inducement to the Ontario farmer to cultivato the long-rooled variaties. For mutton, they supplied a large carcase, and multon was mutton to many peoplo, no mattor whether its quality, from a cpicuro's point of view, was first-class or not. Even today, in spite of the unquestioned preference of the British buyer for Down mutton of a moderate aire, people are to be found who arguo that, be.
the Down-wool character, and bringing a higher price than the long-wools. The evidence on these respeotive topics will now be noticed in due order.

## fortign dejand for thonodanbred sueep.

First, as to the Amorican trade in breeding shoep, Mr. Russell, of Fichmond Eill, County of York, says:-
"I have beon breeding Cotswolds aince they first came into Cauada, and have takin prizes at tho principal ahowe in Cauada for Leicesters, Lincolns, and Cotswolds ; but a fow years agol soid of all but the Cotsrolds, finding thay had better constitations, and were the most profitablo. My
principal maritt is the United Sletes. Last year I sent principal maritt is the United Siktes. Last ycarI zent dity to the Statos. In 1675 I sold all my soaring rams,
eibht of them at an average of $\$ 105$ a head. I have sold owes of my owa raising at $\$ 300$ per pair."
Ho adds as follows:-
"A number of Cutswold breoders have been epringing up in rarions parts of the United States, bat jadging Irom their suocess, I am of opinion that tho bost stock rams for the American continant. Fill bo rhised along the north shore of Lake Oatario. I do not believe that there in at suitable a roil and climato soath of the lake I do not think the Leiavier wool han mora lustre than the Cutswohl. OI coarse cotswold breeders conld very soon impruve the quality of their feyces, bat the Americen traje principally damands weight of feece more than quality, and the piofis to the breeder is to raite what is wanted."
Mr. Snell, of Edmonton (Yeel), whose fine

## CONCERNING天SWINE.

A clover] field is the place to pasture hogs. They come up in the fall in good prime condition for getting hardened in with corn.

If a good brood sow is rightly kept, the pigs from her will more than pay for her keeping hy the sale of some over and above those intended to be kept.
A smull orrly-maturing hog is much more valuable than a largor one, as no more food will bo required to raise two good quick-growing ones than it will for a large, but alow, all lard hog.
Brood sows should be fed on slops containing plenty of vegetables. Rich food can be supplied, but it will not do to have it too concentrated. Givo all the slops, rather watery, they will eat.

Young pigs will drink cows' milk very soon after they find out where the feod trough is. It should be supplied to them in plenty when the litter is large.

A cood many sick auimals are cured by too much doctoring.
Pios are able to consume far more food in proportwon to their weight than either sheep or ozen.

## BEES AND POULTRY.

## FARMELRS AS POULIRY KEEPERS.

I have rend onnsiderable nbout the benefit a farmer would derive from keeping standard fowls -solno selise and somo nousense. A furmer should koep standard breods of fowls, becauso such poultry is more profitable than mougrel stook, and if hons aro kept at all, ono might just as well keop the best as tho worst. But I would advise a farmer to koop out of what is known as the business of breeding fancy fowls. There is money jin it-I know this-but not for tho avernge farmer ; it isu't in his line-anyone, to make a success of breoding standard fowls for sale as stock and exhibition birds, has a great doal to do besides merely rear tho clickens. Ho must give a great deal of time to thom, study the principles of breeding, and linow how to, iu brief, get his namo up so that he can sell his birds after he gots thom. Not oue furmer in a tozen eithor can or would do what ho must do who would become a rival of our leading fauciers. I don't know as I can mako my meaning clear, but I say that while farmers should be poultry funciors, while it would benefit them and their boys to become interested in breeding poultry to the standard, thoy are likely to meet with disappointment if they oxpect to reap a harvest of areenbacks by purchasing a fow fine birds, as chaply as thoy cau, aud then breed to soll again. If they pursue such a course just because they like it, I've nothing to say; people can't spend a little monoy in a moro inuocent and healthful way than by taliug a fancy to thoroughbred fowls, and if they are maturally leen they can make some clean cash out of it, too; but that isu't what I am talhing about-farmers who are gonuine fanciers, and onjoy poultry breeding as they would any kind of fine stock breeding, should be the last to give it up also, and a farm is no farm without a good stock of good poultry; but that it will pay an ordiunry furmer, so far as money is concerned, to breed for fancy points, I dispute most omphatically; it will pay him indirectly, but not in cash. Such poultry breeding is for the mechanic in village or suburb who attends showe, and knows all the ins and outs of "strains," and "brceds" and "breeders," and takes genuino pleasure in rearing, buying and selling premium birds. Our leading fanciers are not farmers; thousands of farmers take a keen interest in fine poultry, but are not known outside of their towns as poultry brecders. As to farmers' wives and children, I should advise them to "go into poultry breeding," both for market and exhibition: take the poultry journals, read them, get into the "fraternity," attend the shows, become fanciers; it will do you good in a hundred waye, and you may turn a few dollars of pocket moncy from it; therefore do it by all means! But the practical granger, "with hay-sced in his hair," etc., who cares nothing for cows but for the milk they give, nothing for horses but their ability to "pull," nothiug for poultry except for its market value-if this sort of au agriculturist asked me if I thought it would pay him to go to keeping st:undard fowls, às Williams, Felch, Keefer, White, French, Comey mad a thoussud others do, I shouli s.y No, with a big N.-Patience Paingley, in P'oultry Bulictin. [Patience is right.—Ed. 16. C.]

## BEE-KEEPING A SUITABLE EMPLOYMENT FOR WOXEN.

The following paper was read before the North American Bec-kecpers' Association at its annual meeting iu Lexington, Ky., by Mrs. L. Harrison, of Peoria, Ill., herself a practical bec-keeper of considerablo experience:
"- Bec-keopng, although a laburivus conployment, demands no great outlay of strength at
ono timo. It embraces the porformanco of many little itoms which requiro skill and gentloness moro than musole. Tho hand of woman, from nature, habit and oducation, has noquirod an enso of motion which is agrocabla to tho sensibilities of bees, and her breath is seldom obnoxions to thoir olfactorios by reason of tobaceo or beer.
"Women havo domonstrated that the making of hives and surplus boxes is no objection, as they have purchased them in the dat, nailed and painted thom. The hiving of swarms is neither more difficult nor dangorous thin the washing of windows or milking. Tho right timo to extraot Loney, or to put on or take off surplus boxes, requires no [more tact or skill to dotermine than tho proper fermontation of bread, or the right temperdture of the oven required for baking. Sho is in her allotted spiere whilo raising queons and nursing weak colonies, or caring for tho honcy when off the hive.
"The most powerful argument in vieis of the suitableness of bee-keoping for woman is this: That it is something she can do at home, and not interfere with her domestic duties. Muny women of small means have young children depending upou their excrtions for support, and remunerative worls to be performed at homo brings very little in the market of today. For instance, the making of overnlls at 5 couts a pair, and shirts at 50 cents per dozen. Sho is compelled to accept less jay than men for the same service performed. We had a friend chosen as principal of a school on account of her efficiency, but was compelled to accept lower wages than her predecessor, who was a man, and dismissed for his incompoteucy. But we have never found a dealer unscrupulous enough to offer less for a pound of honey because it was pioduced by a woman."

## MARKET YOUR HONEY.

The Grange Bulletin gives the following advice for the present month. It is both good and timely, and should bo heeded by those having houey to sell:
"This is the month to market your honey. Remember, too, the nicest-looking honoy will always bring the highest price. Extracted honey in small packages sells best put up in neat glass jars. For larger packages, $2 \frac{1}{2}, 5$ and 10 pounds, use tin pails or cans. If in sections, have them all clean and nice, and packed in a neat shipping crato holding not over 20 lbs each. Sections should all be scraped cleau of propolis. In placing in the shipping crates, unless the comb is well fastened at the bottom, turn the eections top down to allow the ;honey to stand, rather than to hang on its own weight. Paste on a neat label with your name and location of your apiary. Sell as near homo as possiblé, saring transportation and commission. At least, be sure your nearest town is well supplied."

The cultivation of beet roots for sugar manufacture has not been a success in Quebee. Tho farmers are quite disgusted with their crops, twelve tons of bects to the acre being the largest yield heard of. It is estimated that Sutton has merely raised enougls beets to supply the manufactory for one-balf day's work.
A large number of farmers around Paris and in the Blenhiom district, who had bought cattle to feed during the winter, have cisposed of them again, preferring to sell thei rturnips at 20 cents per bushel to buycrs, who aro shipping them to the States. The comparative failure of the crop this year has eniunaced the price of turnips nearly 100 per cent., and many believe that under the circumstauces more profit can be made by selling than foeding them.

## CURRENE NEWS ITEMS.

A usk-kesera's associntion has been formed in Listowel, nill! W. G. Hay at the head of it. They intord kooping a stock of upwards of 300 hives.
Tas Uxbridgo Journal warns the farmers to beware of shoddy pedlars, for they aro awarming tho country at present. Bettor como to town and buy from a respeotnble morchunt.
A maras quantity of potatoos aro daily boing shippod from Princo Edward Island to the United States. The export of agricuitural produco has givon a great impetus to the fall trade of the Is. land.

Nr. Thomas Murray, the entorprising local me nber for North Renfrow, has startod a stock farm at Pembroko, and on Saturday returned from the Whitby neighbourhood with fourteon head of shorthorns purchased there.

Mr. Giles H. Fowlbr, of Burford, has packed 4,000 barrels of excellent winter apples. Ho weut to Montreal lately to see to the shipment of 1,000 barrels to the old country. Mr. F.'s brand on an apple barrel is a guaranteo of excellence.
Mr. War. J. Fulton, of Fort Ellis farm, Truro, N. S., while ploughing, turned up a box of money containing silver and gold. The box is two fect in length, tivo feet wide, and nino inches deep, and weighed about 300 lbs . It is supposed to have beon buried by the early French settlers.
Messns. Matieson, the well-known threshers in Zorra township, have threshed for Mr. Alex. Gordon 885 bushels fall wheat in nine hours and ten minutes. This is good work and hard to beat, but Vandy was not surprised at his achievement aud remarked "that it was nothing more then he was accustomed to do."
At Martin Britt's barn, in Vespra, tho thresinors uncovered three chickons which had been there six weeks in a small hole alougside $a$ beam or girt. The chickens must havo caten, as they were nearly twice as big as at tho time they were stowed away in the mow. The mystery, however, is that they could have lived solong without drink.
It is astonishing, remarks the Peterboro' Examiner, at what a rste cattle and horses are being exported out of the country latoly. The farmers will be under the necessity of going into breeding more extensively, or else they will be obliged to reverse the order of thinge and begin to import. From all paris of the country our exchanges are chronicling weekly the shipment of both horses and cattle.
The Huron Expositor says:-If any man in Canada has any capital to spare. and would like to go into horse brecding, now is his time to do so. All through the summer buyers have been in Canada purchasing horses for the other side until there is almost a dearth of decent auimals in the country. But apart from that, the victorics of the American horses in England are bound to turn all cyes hitherward, and our people should be prepared to share in the general boom.

Mrr. J.G. A. Wallace, of Brighton, proprietor of the "Harbour View Apiary," is an enterprising and successful bee-kecper. Last spring he had but 31 colonies, and during the summer this number was increased to 67 , with 8,000 pounds of honey, 1,000 pounds of which was extracted honey, 1,500 section honoy, and 500 box-honey. From this it will bo seen that he has not only a thorough knowledge of his worls, but that the business is a romunorative one. The section, a white lioney, he sold for 20 cents per pound, the extracted for 12 cents, and the balance in comb, or box boney, for 15 conts.

## gitoustiold afliuts．

TART，juicy fall apples make good jelly． Boll the juice of the fuit in jelly，making to guite a consistency before addling the sugar． Lay over the top of all jellies a round of white paper dipped in brandy．Il mould ap． pears，it takes lis seat on the top of the pa－ per．
Fisis Cakes．－Any kind of cold fish and mashed potatoes beaten up in a mortar to gether，taking the bones and skin from the fish．Flavour with pepper，sall，and a little cayenne：mix wilh the yolk of an ega． Then roll each litile cake separately in the white of the egg and bread crumbs ；fry them in boiling lard．
Fried Liver and Bacon．－Fry the bacon first，then cook the liver very slouly in the fat which comes from it．Make a little gravy with stock or flour and water in the pan，when all the liver is fried，and pour it round the dish．The liver should be cut in slices，and not more than the thitd of an inch thick．
Old．Fashioned Baked Apples．－Take juicy apples，pare and core whole ；use a large corer．Put side by side in a baking pan and fill up centres with brown sugar， pour into each a little lemon juice，and stick enouch water in the bottom of the pan to pre． vent the apples from burning，and bake gently until done．
A GOOD way to make starch is this：dis－ solve the starch in a little cold water，have water boiling in the tea－kette，and when the
starch is en＇irely dissolved pour the boiling starch is en＇irely dissolved pour the boiling water over it，stinning it until it is thick；this is all the cooking the starch needs；blue it slightly，and add to it a bit of sperm or clean lard．There is no danger of lumps or of the starch burning，and so being filled with black specks，if prepared in this way；
but unless the water is actually boiling when but unless the water is actually boiling when
you pour it over the starch，your labour will you pour it over th
have been in vain．

Rock Creane－Boil a teacupful of the best rice till quite soft，in new milk sweet－ ened with powdered louf sugar，and pile it upon a dish；lay on it，in different places， square lumps of either currant jelly or pre－ served fruit of any kind；beat up the whites of five eggs to a stiff froth，with a little pow－ dered sugar，and favour with cither orange flower water or vanilla；add to this，when beaten very stift，about a teaspoonful of rich cream，and drop it over the rice，giving it the form of 2 rock of snow．This will be found to be a very ornamental as well as delicious dish for a supper－table．

Ellen＇s Bread．－Take two－thirds of a yeast cake dissolved in a lille warm water， and two teaspoonsful of sugar．Pour this into three quarts of hour with one teaspoon－ ful of salt added．Mix well with one hand， adding warm water（about one pint），then knead well for twenty minutes，adding four enough，and no more，to clean the dough from the hands and the pan．Cover with a thick cloth，let it stand all night，and mouid out in the morning，not kneading any more than is necessary．Let it stand in pans till light．This fills two long，nariow pans，and makes a set of patty fan rolls．Pans are to be filled halffull．

Charlotte Russe－Take half anounce of gelatine，and put in only just enough warm water to cover it；while this is slowly dis solving take one pint of thick，sweet cream and whip it to a stiff froth；beat well the white of one ege；after the gelatine is dis－ White of one egg；alter the gelatine is dis solved boil it for two or three minutes，then sweeten and flavour it；when it is ahout as Warm as new mik，add the cream and egk and beat the mixiure until it is cold．If the sponge cake over which this is to be turned
is baked on a large，round tin which is scal－ is baked on a large，round tin which is scal－
loped around the edge，it adds much to the loped around the edge，it adds much to the
pretty effect of the dish．Put the cake while pretly effect of the dish．Put the cake while dish，allowing the scallops to show on top； then pour the whipped cream over it．
Plain Plus Cake－This is a good school cake，and，if covered with sugar－icing is rich enough for chaldren＇s birthday parties Make two pounds of flour into dough，with two ounces of German yeast and three gills of epid warer．Letitrise for anter，six eges well in a pound of disenlved butter，six eggs well beaten，the rind ol a lemon，half a small grated nutmeg，a pound or soned ras a candied peel of currants，and hall shredded finely．When all the ingredients are mixed，beat the cake up well，and let it sise in a warm place for an hour，then put it into 2 greased tin，and bake in a good oren for two hours．If mave intome take so lone take．A cake，it will not ake so lode to using either sill plainer cake can be made by using either halr the quantity the bumber of eges，ond a lit． tle leas fruit．

## PIAIN QUTBTIOINS．

O YOU HNOW how to Nrito a good busines lotor，antl tho ossentinl points to bo kopit 0 YOU IKNOW how to drnw n noto of hand？ DO YOU KNOW What is renuirod to mako it DO YOU KNow tho alfferonco botwoon l＇ro－ Inlum nnil Dlscount？nni rumed by avt undoratandiug this ono thity＂
Do you know the forcu of Compound In－

DO YOU KNOW how to nacertain tho mito o Fixchat fo，liaving atorintik or forolen our and aitea aud equivalont ja dollur DO YOU KNOW tho Do YOU kNO W how to kegp bo
DO MOU Your nelyal bain or losa $K$
how to chanfo your books Do YOU KNOW tho resjoughtitlos of part wereblin？
s－If you connot fully answer those questions in tho ammnativo，do not onter into buninesa
 on a coursu of lastructiou at tho
BRITISH AMERICAN BUSINESS COLLEGE， 112 to 114 King Sirret West，Toronto．


## FOUNTAIN＇S CLOTHING HOUSE！

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Visiting Ornngevillo shovid call and soo our stock of NEW TwWELDDS and CLOTIIS，tho largest ovor shown in Orangevilio，nud got one of tieir rollable sults made to ordo
MEN＇S，YOUTHS＇AND BUYS＇CLOTHING Got up in arshechass etylo at Lowest rossime whices．Dun＇t forgot tho phocu，
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Opposite the Gordon IIouse，
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## 30 ADERAIDE STREET EAST，TOKONTO，

Londin monos on Farm．City，Town and Villa
opajablo upon tho most in ourablo tor
Fanmers and othera wishing to olitain loans monld do well to communicato with tho Head ogica，or
alanlitola．

R．H．TOMLINSON，
Nor．18t， 1831.
Sanager．


WILL CERTAINLY CURE Conghs，Colds，Hoarseness，Sore Throat，Bronchitis，Infinenza，Asth－ ma，Whooping Congh，Croup，and overy Affection of the Throat， Lunga and Chest，including Con－ sumption．Sold by all Draggists．

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N． 3 －Wo aro now proparod to recelvo ordora for cur colobratod now whito trapo，tho ${ }^{\circ}$ Gold． cn Pocklingtou．＂jorfoctly hurily．hiaving stood Tithout protoction lust wintor $32^{2}$ bolow zoro
unlajurad．and the rinos aro now loadod with fruti Prico for tro－vour vince fo each， $\mathbf{E 2 0}$ per dozen．One－gear vines $\$ 1.50$ oach，$\$ 15$ por dozen Send for circular．Special teram to


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Fannors．Whon you visit the Quoon Clty： brigg your wives and childron to
NOBLETT＇S COFEER MOUSE AND DINING RUOMS，
115 and 117 YORf，STREET，TORONTO，
Whoro yoa can pot a frat－ciass warm moal at

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A number of Improved Farms in
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Alply to
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ETOOVEE！ In the County． 200 to choow from．Gur－ COOKING，PARLOR \＆BOX STOVES， TINWARE，LAMPS，Etc． Stoam Fitting and Jobling attended to with dosjntch，und moderato pricos．

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Partlos visiting Oraugoville should call and inepect my largo stock bofo Whoreind of NEFDLES，OILS and SENVING
AAM kinis MEPAIRS konit constantly on hand． MACHINE MEPALBS kOit constantly on hand．

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 NEW Condition Powder，For IIorses，Catlle，Sheep or Pigs．
If you want your stock to thrivo，uso it．A
trial will gatisf trial rill satisic．Sold \＆lackagos．

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MONEX TO LOAN．

## 58 CHURCE STREET．

Have Wistar＇s Balsax cF Wild Curbiay nimaye at hend．It curas Coughs，Colds， Bronchitia，Whooping Congh，Croup，In－ fanenza．Consumplion，and all Throat and bottle Bold by dealera generally．

## GOOD PAY TO AGENTS.

## Agonts Fantod In arorg Fillege, town, and to miohip, to make a meuts. Wort to oommence af once. For full yarkoniars ad nueats dress

## 

E Jorlan Btreet, Toronto.
Publisher.
LETTERS on burinese should alwayd be addreserd to the PUDLISHER; sotile communications intended for insertion in the paper, or relating to the siditorial department, to enoure prompt aticention, mult oc addreted to EDITOR RURAL
OANADIAN.

## Tht Gural Cxnadiau. <br> EDITED DY W, F. CLARKE.

TORONTO, THURSDAY, DECEMBER 1st, 1881. NOF IS THE IIMKE.

Many friends in different parts of Ontario are getting up Clube for tho Rubal Casadian. They are respectfully urged to push the canvass vigorously during the next two weeks. A day's work now will give better results than a weel's later on in the serson. Let us hear from you at an early dato with largo lists!

Mr. Juhastuxis letter un the agilclltcral and arts associa. THN:

We do not at all grudge the space ocoupied by the above-mentioned communication. It is an able and dispassionate discussion of a highly im portant sulject, and a subject of present and pressing interest. The writer briags to it special qualifications for the task he has undertaken. His long and successful administration as President of the Ontario Agricultural College, the careful study ho has given to all matters connected with farming, and the self-denying manner in which ho has devoted himself to the attainment of a yet greater fitness ior usefulness in the promotion of this branch of our national pros. perity, are strong guarantees of his ability aud sincerity in his endeavours to put the Association on $\mathfrak{a}$ better footing. The officials of the Association are dealt with faithfully, yet kindly. Due nllorrance is made for the hampering circumstances which have militated against the financial su .ess of the Association in the past, and sug. gestions are foreshadowed for the modification and removal of these circumstances in the fature. Evidently there must be action taken by the Provincial Pariiament in relation to this matter, and calm discussion will be helpful in this direction. We are thankful to Mr . Johnston for the cordial felcome ho gives to Tae Rumal Canadan, which, while averse to iconoclatic efforts for the dostruction of an institution which has done good service to the country, will nevertheless do all in its power to reform abuses, correct mistakes, and promoto the dawn of a new era of prosperity.

## the futire of british farming.

The agricultural sitration in Great Britain has formed a topic for voluminous discussion during the past few months. Boiled down, the essential upshot of it all is, that the cost of production must be cheapened if the British farmer is to get a fair livelibood. In no other was can he maintain his ground in the face and teeth of the tremendous competition that sets in from tho western world. It would seem that the cost of production canuot be cheapened to any appreciable extent, ex.cept by lowering the rents. This is a hard pill for the landiords to swallow, bat sooner or later they will have to do it. Free trade, so far as bread and meat are concerned, is en cstab. lished British institution which cannot bo destroyed. 80, at the bidding of necessity, which has no laws, rents must come down. It will be a
work of timo. Loases will run out, and farme go a-begging. There will be an oxodus of tenaut farmers to this continont. Somo will go to Manitoba and Dakota. Others, moro wiso, will buy improvod farms in tho oldor districts. Theso will bo "more wiso," becauso the class of tounut farmors in Britain is not well adapted to batllo with tho privations and diffioulties of a now country. Such will find things more to thoir liking in settled parts of this continout, where thoy can find ahops, churches, sohouls, and society. In all probability it will not bo uutil emigration turns the tables on the landlords that they will yiold to the unpleasant necessity of loworing their rent rolls. Teuants must grow scarco"and land lie idlo for a time beforo the situation will be accopted, and landowners resolvo to make the best of a bad job. Meantime, America will pour her products into the Britisl markots. With good harvests the farmers of this country may oxpect an era of prosperity. The price of improved farms will go up, and an accession of skilled British agriculturists to our rural population will give an impetus to scientific farming. At first the nomly-arrived emigrant will bo at some disadrautage owing to ignorance of the peculiarities of this climate, but this difficulty overcomes, science will tell. Our ,impoverished lauds will recuperate under the touch of the experienced husbaudmau, and uur native farmers will have, to compote with book-learning in a practucal form. Thes will stimulato our people to study the great principles that underlio successful agriculture, and gradually farming as a profession will rise in public estimation. Brıtan will not suffer in the long run. There is no danger of its losing the agricultural supremacy and prestige which it has acquired. At most there will be but a temporary check inflicted ou that great interest, which has been, and will continue to be, the glory and strength of the old country. Inequalities of condition will by gradually smoothed down to a more equitable standard; the lines of demarcation will fade somewhat between class and class, and society, like water, will seok and find a true lovel. There are somo United States agricultural journals that positivoly gloat orer the ruin and decay which they think are coming to the agriculture of Britain, and show unscemly joy at the anticipated collapse of the "bloated aristocracy" of the old world. No doubt, "the wish is father to the 'thought." But these prophets of evil are doomed to see their predictions fail. There is a good stiff backbone to Great Britain, and though it may have to bend, it will not break under the burden of oircumstances. It will $50, \mathrm{n}$ gain the necessary stiffess to support the load of national obligation which the times impose upon it.

## FLESH AND FAT PRODUCERS.

The American Agriculturist makes up from the published analyses of the most eminent agricultural chemists the following table, exhibiting the relative nutritive value of different feeds. It corresponds strictly with the experience of many noted English feeders, and is probably the most trustworthy information yet collected in so com. pact a form :




It will bo scon from tho abuve that cotton-seod moal has no superior as a flesh-former, and that for fattoning it is botter than overy other articlo of stock fecd. In a very short time it has estab. lished itself, both in this comatry and in Europe, as tho food for beef cattle and for dairy purposes.

We commenco the regular publication of the Rural Canadian on first January dext. Another special issue will be published about the 15 th inst.

Tar law requires that every person who takes in a stray animal must notify the township clerk of his municipality of tho faut in addition to advertising it, giving as minuto a description as possible of the animal. The clerh is required to keep a list of all such animals Pursons faling to comply with this provision of the law, lay them. selves sulject to a heavy, penalty and besides cannot collect expenses for kecpiag, du.

Tue patent right for sharpeuing scythes swindle is still in operation in the western part of Cauada. Two men named Bebee and Ainsley have been arrested. It appears these men havo not only been engaged in the above swindle, but have added to their scythe sharpening note busiuess, the more dangerous operation of horse stealing. Farmers should take care not to sigu any document purporting to be for the posscssion of patent rights unless they know the parties to whom signed documents are given. Carelessness in this matter often brings trouble and loss.

The Caxadus Poultry Revien is an ablyconducted journal, well worthy of being largely patronized by all who take an interest in the im. provement of our breeds of fowls. It is not merely the organ of poultry-fanciers, but is ominontly practical, while sufficiently scientific. Tho principles of good poultry management which it inculcates only need to be generally understood and observed, to increase very largely the profits of the egg crop and the fowl market. Considering, however, that cock-fighting is generally admittod to be a cruel and unmanly sport; also, that it is illegal; is it well that so oxcellent a periodical slould admit American advertisements of "Guaranteed Gamo Steel Spurs"?

Tre National Association of Shorthorn Breeders, which met at Jacksonville, Illinois, Oct. 26,1881 , spont most of its timo in discussing mattors of pedigree, and endeavouring to establish a standard hord-book, from which there should be no appeal. No definite final action was taken, but there was a general feeling that the whole subject of pedigree needs to be thoroughly overhauled, and put on a better basis. Moasures were adopted to prevent the importation of cattle from certain districts at the east, where this disease is known to provail. The rasult of these measures is stated in another paragraph. Hon. M. H. Cochrane, of Compton, Quebec, was avpointed second Vice-president of the Association.

A mecent American magazino contains an cditorial adrocating schools for teaching politics. No doubt some popular instruction in the science of government und the principles of politioal coonomy would be of public benefit. But there
is far greator noed of schools of agrioulturo. As a stopping-stono toward thoso, tho elemontary priaciples of agriculturo should bo taught in our common schools. This branoh of popular education caunot be much longer negleoted. Agrionturo lies at the foundation oi our nationa prosperity, and musi be recognizod in our systom of public instruction. shore would be loss noed thon of sohools for tenohing politios, for wollellucatod fariners would anturilly read and think fur themeolves on the questions of the day.

Mr. Sebomilebr, whose farm of 105 acres is situated about $n$ milo and a half from Godorich, is said to bo the largest irvit-grover in tho County of Huron. Twenty-five acres of the farm are dovoted to the culture of various fruits, comprising 400 peach trees, 000 plum trees, a largo applo orchnrd, 250 pear trees, 800 grape vines, four aores of strawborries, some black ourrants, and an aore of raspborries. All aro reported as producing a remunerstive crop oxcept the plums, of which the 900 trees yrelded only one bushel in all. For thes fulure the carculiv is held rosponsible. The propristor is reportod as saying: "I would give tweuty-five cents a tree to any man who would destroy the carculio and save the fruat on the trees. I have tried jarriug aud smokirg, but it's rather discouragiug. If I could conquer the curculio, plums would be tho best paying crop to rase. Thoy would yield largely, and thoy hardly miss a year bearmg.'

Tue following section of the Act for the Pro. tection of Game, etc., should be cat out and preserved by sportsmen: None of the animals or birds hereinafter mentioned shall be hunted, taken or killed within the periods hereinafter limited: (1) Deer, ell, mooso, reindeer or cariboo, betreen the fifteenth day of December and the first day of October: (2) grouso, phensants, prairie fowl, or partridge, between the first day of January and the tirst day of September ; (3) wild turkey or quanl, between the first day of January and the first day of October ; (4) woodcock, between the first day of January aud the first day of Augnst ; ( $\overline{0}$ ) snipe, between the first day of Jauuary and tho fifteenth day of August; (0) water fowl known as mallard, grey duck, wood or summer duck, betreen the first day of January and the fifteenth day of August ; (7) other ducks, swans, or geese, between tho first day of May and the fiftecuth day of August; (8) Lares, between the first day of March and the first day of September.

Prestdent T. C. Abbott, of the Michigan State Agricultural College, points out very forcibly in the Christian Union some of tho many good results to be expected from Agricultural Colleges. He shows that a higher appreciation oi the farmer's calling is one of tho most important of these results. He dues not believe that it is the drudgery of farming so much as the want of education in conucction with it that has brought this occupation into disrepute. A city surgeon of largo practice works harder than the farmer; so does a sculptor; so does a chemist Farmers have lowered their own business by neglecting intellectual culturo. An occupation that is thought to requiro but little brains will command but little respect. The larger numbers of young mon who become lawyers and doctors take only about troo years of special study in addition to a good common school education. Yet their business is called a profession and thought highly of. When farmers as a class are similarly educated, farming will count ass a profossion, becauso it will in reality bo one. Farmers fix thoir own status, and can raise it if they will.

## THE AGRICULTURAL AND ARTS. ASSOCIATION. <br> 1.-Its pinancial hanaobibst.

Mn. Editor :-Allow me, beforo saying anything else, to express my pleasure at the fair face of the nowcomer which has mado its appearanco amongst the purely agricultural papers on my study table. Proviously, but two-The Canadi,in Farmer and the Furmer's Aluocate-could this rich agricultural province place thore, and though both wero excellent, yet surely thero must be room amongst our two hundred thousand farmers for double that numbor. Heartily then do I wish you bon voyage. And, in complianse with your expressed desire that my good wishos should take the tangible shape of a paper or two on some subject portaining to my old occupation, I send you this on the abovo subject. As a good deal has beon said, during the late Exhibition season, about the financinl management and future existence of tho Provincial Association; as a large proportion of your readers take an interest in that body; and as many of them are, I am assured, unable to forn al intelligent opinion on the questions at issue, from the want of reliable and dispassionate data on which to form it, I will, with your permission, in this and another letter attempt to supply that want. I hopo neither to attack nor defend, but simply and candidly to state. In taking up the first of the two questions, it would bo as unprofitable as it would bo impertinent for me simply togive what the auditors have already done-a summary of the receipts and disbursements of the Association; lut I shall place before your readers a comparative statement of the income and expenditure of the Toronto Industrial Exhibition Association and the Provincial Association for the last year, 1880. In that year the Provincial was held in Ifamilton, aud it was open for the same !ength of tine as the Industrial in Toronto. Doubtless there were certain circumstances which militated against the Provincial, but on the whole no fairer comparison can be obtained. After making the statement in a couple of tables, I will give all necessary explanations thereon, point out a few facts evident on the face of them, and lastly, draw some conclusions in the shape of reasons and remedies therefrom. The following, then, are the receipts and expenditures of each :-
1.-neceipts yoa 1880.

Industrial.

1. Balanco from 1879
.. $\$$ 962 2. Sabscriptions................................ 1595 00 4. Admissionfee............................ 2480050 5. Privilegos on grounds (stands, etc.)........ 334800

Total Recoipts.
Procincial.

1. Balanco from 1879........................ 107542 2. TJonati ns and refands....................... 58700 3. Membors' fees.................................. 1620 1026 50
2. Admission fees....................... 10704 4. Admission fees............................... 1070409
3. Privileges on grounds (stands, etc.)....... 150460

Analogous Beceipts 8155570
6. Intorost on doposits and rents............. 109681
$\begin{array}{ll}\text { 7. Registration feos and Sales (Hard Book)... } 1230 & 120 \\ \text { 82 } \\ \text { 8. Provincial grant..................... } \\ 10000 \\ 00\end{array}$
8. Provincial grant......................... 1000000

Total Receipts...................... $\$ 33110$ i1
u.-Expenditures (maintisianoz) foa 1880. Industrial.


| 5. Erponses of Council and it 1 Committoes. | 834120 |
| :---: | :---: |
| C. Onlicos expensces and insuratces......... | 26814 |
| 7. Herd Book oxponsos. | 121579 |
| 8. Grant to Vetorinpry Collegu | 68000 |
| 9. Examination of Prizo Farms | 10005 |
|  | \$80913 65 |
| (a) Canital nocount. | 30500 |
| (b) Cross ontry. | 22597 |
|  | 83144402 |

I. Explasations.-Theso tables are almost solf. explanatory. In each table aro placed thoso receipts and expenditures of the Provincial which are purely for Exhibition purposes, along with the analogous or identical items of the Industrial. In tho first table, the second items of each aro strictly identical-both being gifts to the respective Associations The third are also analogous; for whereas in tho Provincial, exhibitors become members and bave the privilego of entry, in the Industrial they are charged according to the number of thir exhibits, or the anount of space occupied by then. All other items in the first table explain themselves.

In the second table, the first four itoms of each are alsolutely identical. Those under the heading "Industrial," correspond with the books of the Industrial Association, which are plain and businesslike, those under the heading "Provincial," do not correspond with the auditors' report of the Provincial Association, which is neither. Finding under the heading of "Exhibition expenses," items for "council expenses," " travelling oxpenses," "examination of prize farms," etc., and under that of "Mis-cellaneous"-amuunting in all to the preposterous sum of $\$ 1,289.84$-a mixed medleg of items. which should have been properly classified under their appropriate headings, I have been obliged to reconstruct the arrangement into that of the second part of Table II., which may therefore require a little explanation. The second item contains tho expenses of the Txhibition and nothing else. As the directors of the Industrial are paid nothing, all expenses of the Council of the Provincial are, for the purposes of a fair comparison, clininated. One-hale the cost of postage and stationery, the salary of Mr. Denison, and the cost of printing it, have been charged to the Herd Book; and in this way items Nos 3, 4 and 9 are changed from those in the auditors' abstract. One-third of item No. 5 belongs properly, it seems, to 1879 ; and item No. (a) covers some permanent repairs made to the building owned by the Association. So much for explanations, but, before making any general renıarks, it might be well in passing to suggest to those having the matter in charge, the propriety of having overy voucher properly endorsed and classified, that the auditors' abstract may be as thoroughly reliable as the financial statement is absolutely currect.
II. Rejaris.-1. From the two tables it will be seen, tiat on the operanicss of the whole year the Industrial cleared $\$ 3,147.11$, which with the small balance on hand they used in improving their buildings; the Provincial lost $\$ 4,409.07$, which they met by using the balance from 1879, and borrowing $\$ 5,000$ on their assets.
2. But the comparison is scarcely fair, for a glance at the tables will show even the uninitiated reader that the Agricultural and Arts Association, unlike all district ones such as the Industrial, exists for other purposes than simply holding an annual exiaibition. What those purposes are is clearly stated by the Act creating it, but they may practically be summed up in the following list:-

## A. Exhibition Purposes

B. Non-Exhibition Parposes.

1. Control of a Herd Book.
2. Control of a Veterinary Colloge.
3. Control of Provincial Ploughing Matches.
4. Examination of Farms and Essays for Prizod.
5. Miscellaneous duties referred to them, principally in conncetion with the
Entowological, Fruit Growers', and Dairymen's Associations.
6. D. Nos.Eximbition Puroses.- So far as these are concerned, the fimancial management cannot le impugned. The IIerd Book is a financial success. For $1: 50$ the receipts were $\leqslant 1,230.3 \%$, and the expenditures, including Mr: Denison's salary, half the total expenses of postage and stationery, and its own printing, $\leqslant 1,215.79$. In 1579 the receipts were $\leqslant 1,(07.90$, and, on the same basis, the expenditures $\leqslant 1,409.03$. The office expenses, though high in $18 \times 0$, are yet not extrnvagant, and the insurances are reasonable. The sum of $\$ 106.05$ is a very suall one wherowith $t$ a pay the travelling expenses of the two gentlemen who ram over half a dozen countics inspecting prize farms; whilst the value of the essays as contributions to our Canadian agricultural literature is out of all propor tion to the sums given in prizes.
7. A. Eximaiton Perroses.-Ifcre the financial manarement has not been stceessiul. By the tables given, it will be seen that on the Exhihition of 1sso, as a financial speculation, the Industrial, paying $\leqslant 2.2,000$ in prizes, cleared $\$ 3,000$, whilst the lrovincial, paying $\leqslant 13, .00$ in prizes, lost in round numbers $\leqslant 10,000$. And this is not counting a ent for Council expenses. On the samo basis, the loss in 1575 at Ottawa was $\$ 13,2 \pi 7.49$, and nt Toronto in 157 : it was $53,512.55$. And the basis is quite equitable, for it is identically that on which all District Exhibitions have to be managed.
8. C. Cocxene Exrexses-By referring to the second table, those will be seen to be, for $1 S S 0$, the sum of $\leqslant 3,341.20$, but of that amount $\leqslant 1,257.40$ is entered as belonging to 1579 , learing $\{2,0 \leq 3.50$ as the expense for 1850 . In 1579 , thase expenses, adding in the above amount, were $84,294.06$; in $15 i s, \leqslant 4,129.50$; and in $1577, \leqslant 2,344.30$. The latter year was the first under "The Agricultural and Arts Act."
III. Refisons and Revedies-Four space and my time will permit me but to indicate these. So far 15 I3. Ton-Exhibition Puryoses are concerned, no iault can reasonably ive found; bat financial reconstruction is required, it will be seen, in at. Exitition Pujpases and $C$. Council Expenses. The problem has been faced by the Council of the Association, but the root of the matter has not been reached by them. Iet us glance at the factors oi the probletr. Looking at Table I. it sill be noticed that the receipts oi the Industrial are far greater than thase of tlic Prorincial. Now, whilst the dignity and special ends of the Prorinciai would not perhaps allor the Association to use all the mans which are used by the Industrial to draw, yet it is erident more must be done in that direction than has formerly been attempted, whilst the $\pi$ stern oi iree entry to all members who are exhibitors needs carcful consideration. Examining Table II., it will be seen that IJ. Eerhilicion PuTpues inclades the four items of "Prizes" "Exhibition Expenses," "Printing, cic," and "Salaries." Sow, it is unfair to compare tho two as has becn done, and say that to pay Ein, 4 15.It in prices cost the Induatrial $\leqslant 2,1 \Omega \Omega \leq 0$, whilst to pay $\leqslant 13, i 76.50$ cost the Prorincial Sl1,997 97 ; or, to pay $\$ 1.00$ in prizes cost the Indastrial tocents, whilst the payment of a similas sam cost the Prorincial $\$ 1$ cents. The Exhibitions anc zbout the same siac ; the divisions, departments, classes, and entries are aboat the same in the tro; there are almost 25 many assistants raguired by the 030 as the other, and it costs no more to write a
 ber, and coonony, the tainane, small though it le, is in fareuroithe Industrial; and we mast therciore proorel to examine the incras mentioned under the heading "Prorincial" This pari bas already becn thin gear handied, I anderstand, of a Committeo of
the Council. Tho first item-"Prizes"-will not stand any reduction, ought indeed to be increased. The secoml is mainly mado up, as all Exhibition halitues know, of the expenses incurred for the services of gatekerjers, carctakers, judges, and secretary's and treusurer's assistants. The same Comunittee claim that these have been brought down to the lowest point compatible with efficiency. The report of 1881 will show. It should, perhaps, in all faimess here be stated that these expenses show higher in 1850 than in any previous year, the sum of $\$ 1,100$ being paid in Hamilton for motive power. In the meantime, the questions of experts for judges, and the propriety of carctakers, etc., being selected from the district in which the Exhibition may be held, are worthy of consideration. "I'rinting, etc.," cannot well be decreased, for advertising, cte., pays here as elsewhere. Some special contract must have been paid in 1SS0, as this item on the basis already explained was in 1579 but $\$ 1,723.33 ; \leqslant 1,634.35$ in 1575 ; and S1,420.92 in 1577. "Salaries, etc.," is an item which has this year been decreased by some $\$ 700$. Secing that the Treasurer gives bonds for $\leqslant 25,000$, which from a guarantee company at $1 \frac{1}{2}$ per cent. are worth $\leqslant 375$ per annum, it may be said that Mr. Graham, receiving $\$ 400$, now gives his services, like the treasurers of the District Exhititions, gratuitously. A permanent secretary who is a responsible man cannot be asked to live in Toronto on less than $\$ 1,200$ per annum, and from many years' acquaintance with the new secretary; who is both alle and efficient, I am sare lie is worth more than that sum. But there is not sufficient for a permanent secretary to do. I will take the liberty; in considering the question of the existence of uhe Association, to point out what in my opinion should be done to increaso his work, so that not more than kalf his salary should be charged to the Exhibition, eren should it be $\$ 2,000$ per annum. On the whole, we are assured that "Exhibition expenses" will be lower this year than erer-lower than those of the Industrial. As I hare said, the reports of $15 s 1$ will show, but the effort in the direction of economy is worthy of encouragement.

Lastly, there aro C. Council Expenses-the expense of keeping up the Council of the Agricultural and Arts Association. This matter has likerise been attended to by the Committee mentioned. The members are now paid their travelling cxpenses at cight cents a mile one way, and $\$ 3$ 2 day for cach day actually in session. They are in session threc times a year, and during tho whole time of the Annual Exhibition Certainly the amount inaividually received canno: begin to pay the members for leaving their business to attend to the work of the Association, and bence their chasrin at finding their Exhilition not as certain a financial suceess as others must be greater. But there are far too many members in the Council for she work there isto do. There are now 95 in all13 riective and i $\ddagger$ ex afficio. The idea of a Board of $2 \overline{\mathrm{~m}} \mathrm{men}$, whuse expenses haro to be paid and scrvice at least indemnified, handling an Exhibition that can compcic financially with any cne managed by a fer dircuors working con amore for the good of a particular district, and giving their time and serrices gratutiously, is simply preposternus nonsense Doukiless every man of the 97 has done his best to help on the work of the Association, but there is no necessity for 27 men to do it. Their number should be lessened, and that can onls be dono by ai amendment to the Agriculture and Ares Ach.
In conclusion, eren their best friends must aco knowledge that the financial managcment of the Agricultural and Arts Association has not been as unqualificd success in important causo for that mant of suocies hes boen, it is said, the failuro of receipts owing to the gromth of District Exhibitioss Bat erca then it is eridents from the con-
sideration of the subject in this letter, that thero has been also wanting that fresh vigour and vigilant. economy which alono can make financial management successiul. It has arisen, doubtless, simply from want of attention to causes; and now that a movement has been made in the right direction, it is to bo hoped that it will be as thorough and complete as the nature of the caso requires. Of course, it must never be forgotten that the object for which the Provincial Association holds an Annual Exhibition is, not that it may bo a paying speculation, but that the agriculture of tho particular district in which it is held may, by the example, rivalry, rad emulation thereby awakened, be greatly stimulated and improved. But whilst this is being done, thero is no reason, if un amendment to the Act be obtained, and vigour and a spirit of economy are brought into active exercise in increasing the reccipts and decreasing the expenditure of management in the ways indicated, why the Provincial Exhibition should not be carried out, if not as a great financial success, yet in such a way that the loss certain to be met with in some sections in which it must bo heid, should be almost if not altogether counterbalanced by the gain obtained by it in others more fertile, more populous, and, agriculturally speaking, more advanced.
There are many in the Province, however, who assert that this is impossible, that the good which the Provincial has in the past accomplished is now leing moro effectually done by the District Exhibitions, that the necessity for itself as for its existence has gone, and that, as the speediest way to the abolition of the Association, the Legislature ghould withdraw from it the Provincial grant. But, as I have already, Mr. Editor, transgressed altogether too far on your space and good-nature, I will reserve the consideration of this question for a future communication, and subscribe myself,

Fours faithfully,
Wu. Jonisiston.
Toronto, Och 1fth, $1.5 S 1$.
Mr. Rodi. Stemart, while at work on his farm just outside of tho village of Hastings one day last week, uncarthed an elk's antler of an cnormens size, its length in a straight lume being threo feet four inches, the base mensuring $10 \frac{1}{2}$ incles in circamierence.
Wres putting up his storo for winter a Colborne farmer found a potato plant of vigorous grorth in the iron leater. By some accident a notato mas thromn into it in the rpring, and sprouted in the norel "patch." The little "marphies" were formed at the root, and looked rather odd growing in the air-there being no soil.
Tire medals of tiuc Ontario Agricultaral and Arts Associntion for the hest managed farms in District Na. 2, comprising tho Counties of Essex, Kient, Lambton, Elgin, AVildiesex, nnd Osford, were arrarded as follows for the present gear: Gold medal, William Donaldson, Forth Oxtord; 1st si'rer medal, James Fisher, East Midulesex; 2ad silrer medal, Alex Dolson, Enst Kent; bronze medal, James Smith, North ariddlesex; bronze medal, T. Parks, South Essex; bronzo mednl, James Smyth, East Ěent.
Hentr G. Fernor writes: "I predict for Great Britain a very sercre winter, preceded by a cold, ret autumn. This cold reather will set in unusually carly, and tho Clyde, Thames and other rivers aro likely to become firmly icc-locked. The heary snorr-falls this sear bid fair to keap on tho other sido of the Atla:aic. Un this side the rinter is likels to be, to a rery considerable degree, operi and mild, but betreen the periods tlecre will in all probability be a few bricf bat intensels cold "dipe", the first of these probebly occarring torrard the close of Norember, and the ontry of December."

## GARDEN AND ORCHARD.

## A DAY IN THE " GARDEN CITY."

If there is a city on this contincut, or nuy other, that deserves the abovo namo, it is Rochester, N.Y. It is doubtiful if thore is a city nuywhero in the world that has so many protty homes in it. The people seem to vio with ench other in keoping their gardons noat. Thoro is au almost total absence of rows or terraces of houses. Even double houses are rare. It seems as though every householder coveted a littlo horticultural domam of his own, and had secured it. Some of these domains, of courso, are extensive. On the avenues, where wealth has congregated, there are spacious lawns and gardens; that is the case m all cities. But the beauty of this city is, that the smaller and quite unpretentious residences have surroundings of tastefulness and beauty which many palatial mansions in other cities cannot boast.
This is no doubt largely owing to the fact that Rochester has long been a sort of centre for such businesses as tend to dovelop the popular taste in the direction indicated. Some of the finest nurserics on this continent aro located lecre. Jawes Vick, the princo of living seedsmen and florists, has long resided here, aud built up what is probably the largest business of the limed in the world. With extensive uurseries envirouing the city, each having handsome specimen grounds with roses, tulips, asters, lilies amd multitudinous other flowers blooming by the acre, as they do literally in Yick's extensivo grounds, it would be strange, indeed, if tho people at large did not catch the spirit of horticultural caterprise which is busyall around them, and "in their very midst," as the old-timo phrase has it.
The well-known firm of Elranger 4 Barry has the largest nursery here, and it is probably the most extensive in the United States, comprising, as it does, 500 acres or more. Tho specimen grounds, which aro bept in tho finest possible order, form virtually a public park, and there is this feature aboat it, that whereas most public parks contain ouly ordinary specimens of the commoner trees and shrubs, this is slocked with the best specimens of the choicest rarieties, and forms an interesting arboretum which will well repay attentive study- A person mith an oye for the beautiful could spend a considerable timo in the contemplation of not $a$ fer single specimens, and feel well paid for so doing. An hour or so cmploged in hamedly looking at such a place as this great aursery is simply tautahzing.
There are seveml other nurseries hero that well repay a risit. I had but a hasty giance at those wi II. E. Hooker, W. S. Little, Gould Bros., Firost \& Co., which are tho leadiag ones; but, besides these, thero aro a Iargo number of smoller concerns. In addition to the nurserymon, :- : . are dealers in narsery stock, who obtain tho best plauts and scions from all parts of the rorh, aud cmplos skilled practical nussergmen to grow them to a salcablo sizo for them. Prominent among theso are Chare $13 r o s$. and Geo. A. Stone, of the firm of Morris, Stone \& Wellington, Fell knorn in Cauada. Their packing grounds present a hrely spectacle, with some oue hundred aud fifty men hand at work in cach of tisem putting up the fall oniers.

I, of course, risited tho mammoth sect establishment and grounds of ilr. Tick. Although the genial proprictor was absent, ho was well repre. scutad by his right-hand man and gencral manager, Mr. Fuiler. This is a vast concern. A more complete cstablishment could hardly bo imaginod for tho purposo intended. Erorytuing is dono ou tho premises, eren to tho printing and despatching of mails. In fact thero is a linited Stalos post-ofico locsted in this building for tho
delivery and despatch of the mails received and mado up here. In the busy ecason there aro sometimes from 2,500 to 8,000 letters a day for Mr. Vick, most of them containing monoy or monoy orders. During the Alush times, tro men are coustantly employed opening letters and taking care of the remittances contained in them.
inr. Johu Charlton, a practical nurseryman, who works only a fow acres of land, not fur from Yick's place, is propagating for Mr. Pocklington, of Sundy Hill, N.Y., the now famous white grape which beare his name; and the best item in my day's work or pastime-it was both-consisted of a critical inspection of the plants and fruit. A buach of the Pochlington was sent mo from the Provincial Fair at London, where it was on exhibition. My first irspression on openiug the paper box that contained it was that so fine a bunch must have been raisid under glass. This impression was not lessened when $I$ ate the berries. A fecling of incredulity was left, which was not completely dissipated until I saw and tasted the clus. ters actually growing in Mr. Charlion's open grounds. The readers of the Advertiser have often been cautioned not to be carried away with nursery noveltics, but to wait for thorough testing. Well, I deliberately let off the brakes from the Pocklington, and say to all who take any interest in grape culture, get it without delay. On an eightyfoot trellis of vines, only set out treenty-cight months, nad from which many" fine specimen bunches have been culled for the full exhibitions now past, there still remained such a crop as I never sew before on vines of the same age. I have been considerably around among vineyards, nurserics and private gardens, but this display of Pocklingtons, both as to quantity and quality of fruit, far excels auything I havo over witnessed. These young vines were on the trellis last winter, one of the severest on record, yet slender twigs werc iaden with the choicest fruit. This one fact speaks volumes. The Concord and other varicties were growing side by side with them, but it far surpassed themallinerery quality that can recommend a good ont-door grape. Almost the only objection I was previously inclined to think night justly lie against tho Pocklington was completcly disproved by a personal inspection of it. I refer to an alleged tendency of the berries to drop. It will be admitied that by October 12, a grape that can be depended upon to ripen in this climate must be dead ripe. Well, I shook the clusters roughly, and am free to say that the berries are no more inclined to drop than any other out-door varicty I am acquninted with. On the whole, I consider this grape the most raluable addition to our list which has been made since the adrent of the Concond. It ripers a littic carlicr than that weliknown variciy, and its rich, golden coluur makes it highly attractive. I am glad to add my personal testimony to that of such high Pomological authorities as Hon. M. P. Wilder, of Boston; C. W. Campbell, of Delaware, Ohio; Euabard, of Fredonia, and Hooker, of Rochester, N. Y., in commendation of a grape which I hope to see largely cultivated in ercry part of Canada that cau ripen a Concord. Ihnre tro Pocklingions in my owa garden, and only wish $I$ had tro dozen. - Canadian Žural Enlitorial Corrcspandence of TTestern aidrertiser.

## CIIP DIRI' FOL TREES.

Tho great raluo of "chip dirt" for sproading around young ard newly-sct fruit trecs, imparting to them doublo rigour in gromtih, is simply the beneunt derireã from good mulching. Decared chips, laai-moald and dried mack are all quito similar in their nature, sud as thes tend strongly to hold tho moistare in the soil belor, and cannot form ai crust on the sariace, they aro mell fitted
for the purposo; but as planters generally negleot this stirring, or jerform it in an incfficient manner, while tho action of tho decayed regetablo matter canuot be hurt by neglect, it has a special advantage over other modes of treating the young trees.

## LATE AUTUMN GARDEN WORK.

The question of cold frames is not sufficiently understood, and a word upon it is important at at this time. Thoy are constructed much in the samo way as hot-beds, though tho purpose thoy serve is somewhat difficrent. A hot-bed is a frame with sash, in which manure is placed and covered with soil. The heat from the fermenting manure and the confined air of the frames force the young plants into a vigorous growth. The cold frame is also $\Omega$ frame with sash, but not furnished with bottom heat produced by the manure, and the plants are placed in it simply to be protected from severe cold and sudden changes in the weather. Cold frames are to preserve an even temperature and one that plants like lettuce and cabbage can bear throughout the winter mouths. The frames may be coustructed at a trifing cost, asing plank twelve inches wide for the back and one eight inches wide for the front, placed as far npart as the length of the sashes used. By the aid of these frames an early stock may be gained of these vegetables, the market value of which depends greatly uron their coming as quickly after spring opens as possible. It is the first man in the market that gets his own price, and the last one must take whatever he cau get for his labour. Many more cold frames could bo used throughout the country with profit.

## MIOR. $1 L$ EFFECTS OF THE G-ARDEN.

We recommend to all momen who are fortunato enough to have a piece of land at their command to cultivate a vegetable garden. The culture of stramberries, raspberries, blackberries, gooseberries, currant and garden vegetables is as delightful and profitable as anything in which a woman can be engaged in. Sle may sprinkle her garden rell with flomers. All the better for that. A snowball in this corner, and a rose in that, a dahlia bed there and a moss border here, will not be out of place. Only let the substantial and useful constitute the chicf part. A touch of the ornate, like a ribbon on a good bonnet, is not in the least objectionsble. In all the schools study botany. It is healthful, picasing and useful. The principles of horticulture are the principles of botany put into practice. Farmers study agriculture, Why should not their wives and danghters study horticulture? The cmployment is both healthfal and pleasant. What roman cannot raise bects, tomatoes, melons, onions, lettuce, and faraish her own table mith them? What voman cannot plant a raspuerrs bush, or currant, or gooseberry, and tend it rell? The expenment is both pleasing and profitable.

A correspondemt of the Country Genileman sass that tho proper may to cradiente those troablesome riceds, wild carrot and oxeye daisy, 15 thorough callivation of the soil. Both plants. with man's permission, will take possession of neglecied spots, but hare no place-and seem to desire none-in course of good farming.
As anple treo shonid ander no circumstances bo trimmed rhen frozen. Cut tro limbs from the same tree, of equal size, ono in February, When the tree is frozen, and the other cho following June, and the one cat in June will heal more nud better during the season than the one cat in Febrnary. Tho best time to trim applo trees is from June to August.

## HOME CLRCLE.

## CHAT WHTH MOTHER'S.

In the management of your lillie ones nobody doubts your love, nobody doubts your readiness to sacrifice yourselves for them : but your methods, the wisdom of your service, may often justly be questioned.
As this time I ask your attention to a suggestion or two in regard to your mellods of feeding your babies. You know how vital rigutarity is with us grown-up people. We may take the planest food, and in moderate quantities; if no attention be paid to times and seasons, our digestion will soon
be deranged. A man may eat nothing but beel and stale be deranged. A man may eat nothing but beel and stale bread -the wo best anicles of food wath which we are ac-
quainted -and he maj take them in proper quantities, but quainted and he may take them in proper quantities, but
in a month he will have dyspepsia, if he constannly changes in a month he will hare dyspepsia, if he constunny changes
the hours of his meals. It is not the kind of food we cal at the ralroad stations, but the irregularity of the hours of catthe raltroad stations, but the irregular
Now, we all know this to be true of ourselves-grown-up, matured, tougla people; we believe it 10 rest upon a physiological law. And in view or hhis law let us consider how you seed your baby. you pur theast, no matier what makes it cry: if it is hungry. ever it is uneasy, no matter what makes it cry: if it is hungry,
or cold, or has a pin stuck in its back, or is surfeited and or cold, or has a pin stuck in its back, or is surtited and
has the colic- no matter what may be the cause of its worying or crying you treat it with the same remedy-a dose of milk. The litte thing does not know that milk is bad of it, and so it goes on sucking. It has learned to do but one thing-io suck; and in its. eapermess to gee relief, it will
do that ining fify times a day. In this way it is made fevciish and thisty. Its little pulse will run up to a very high ra'e. It is suffering with thirst. Lake all creatures with thirs, it needs water. Nothing could be worse than malk. It is poison even to a stiong man with $a$ fever. What do you give , our bably wish a fover? One fhing, and one thing
on'y, and that is miik. Alik, mith, is the foud and dronk of erery baby, given to it five, ten, twenty, or fifty tumes a day, just as it happens. At atght it is coaxed to diac every tume it wakes up.
A baby six to trelve months old should be nursed about sight oclock in the morning, and it should have time to get all it wants. Evecy three hours till bed-unie, or nine o'clock at nish, it should have a good meal, which should be given with perfect regularity. During the night, nothing what-
cver. In 2 month the baby will not only become accusever. In 2 month the baby will not only become accus-
tomed to this, but on this system the litule chap will fourish as he never did before.
Mo:e than half the stomach and bowel diseases, fevers, and fits from which babies suffice and die, come from insegalarity and excess in feeding them.-Dr. D. Leiois.

## A HUSEAND AND FATHER:

A young man and his wife were preparing to attend a Christmas pany at he hnuse of a friend some miles distant. Hitanj, wy dear hustand, don't onnk to much at the
party today ; you will proanse me won't sou f" said she, party to-day; you will proanse me, won't sou?" sid she,
putung her hand upon his trow, and raising her eyes to his pultung her hand upon his br
"svo, Millie, I will not ; you mar trast me."
And he wrapped his safiant boy in a soft blanket, and they procerded.
The horses were som prancing ove: the turf, and plearant conversition beguled the way:
"Now, dont ilorget your promise," whispered the young wir, zs she passed up ite steps
jook upon the wine when the wile of a man who lored to lowk upon the Fine when at wiss rent Bat his lore for his it was not ofien that he joined in the bacetanalian serelrics.
Tits. The prity nassed off pleasantly, the time for departing drew near, and the wife descended from the upper chamber
to joia her husband. A pane shot through the trastine heart ${ }_{2} 5$ she met him, for be was zatoxicated-he had broken his promise.
Silentls they rode homeward, save when the dranken man woald breat into snatches of song or unmeaning langhter. hear.
"Gire me the baic, Millic, I can't trast jou with him," said he, 25 they approached a dark and somewhat swollen stream, which they had 10 ford.
Alter same hesitatica, she resigned her first-born, ber darliog take, clusely wrapped ia the great blanket, to his arme Orer the datk waiens the noble steed safely bore them, and when they reached the bank the mother asked for the child.
With mack care and tenderness he placed the bundic in her armas har when she ciasped it to hes basom no babe was
there ' 1 hat si pped from the blaket, asd the dranken father knewit no:
A wilh shtiek from the mother arossed him, aod he tarned jort in time to see the litule rosy face rasc oac rao $=$ cai abore the dark wares, then sink forever.
Ware a speciacle ! the idol of his heart gone-gone forevet' =nd hat, too, by his own iatemperance. The 2ngaish of the mo'her and the remorse of the father are better imagined then described.

## THE PRIME OF LIFE.

Ditween the ages of forty-fire and sixty, 2 man who has propenly recrala: ed himself may be coasidered in the primac
of tife. His matured strengta of conatuation renders hica almost imperrioss 10 an attack of disease, and experience has given soundness to his jodgment. lins mand is resolate, firm, znd eqaal ; all his fenctions are in the highest order; he assumes mastery ores has basiness; bailds cp a compe. tence un the focndation he has laid in eally manhood, and
passes throegh a period of hife allended by many gratifapasses throzgh a period of hife allended by many gratifica-
tions.
Haring gone over a year of iwo orer sixty, he aftions. Having gone over a year of iwo ores sixty, he ar-
fires at a stadistill. Bet alhwat this is the rizect called
the turn of life, which, if crossed in safety, leads to the valley of "old age," round which the river winds, and then beyond, of old age, $\begin{aligned} & \text { without boat or causeway, to effect his passage. The bridge }\end{aligned}$ is, however, constructed of faragile material, and it depends how it is trodden, whether it hend ut break. Gout and thrust him from the pass; but let him gird up his joins and provide himself with a fiter staff, and he may trudge on in safety and with perfect composure. To quit metaphor, "the turn of life" is a tum either into a prolonged walk or into the grave. The system and powers having reached the atmost expansion, now begin either to close like a flower at sunset or break down at once. One injudicious stimulant, a single fatal excitement, may force it beyond its strengith, white a careful supply of props and the withdrawal of all that tends to force a plant will sustain it in beauty and vigout until night has entirely set in.

## FANMER YOIN.

"If I'd nothing to do," said Farmer John, Viere I but nud of this mountain of nork, What a good man I could be!
'The pigs get out, and the cows get in, Where they have no nght to be; And the weeds in the gadien and the cornWhy they fairly fighten me.
" It worries me out of temper quite,
And well-nigh out of $m$ y head.
What a curse if is that a man must toil Lake this for his daily bread!"

But Farmer John he broke his leg, And was kept for many 2 week
A helpless man and an iule man-
Was he therefore mild and meek
Nap; what with the pain, and what with the fret of situng with nothing to doAnd the farm wook botched with a shiftless hand, He got vers cross and blue.
Iie scolded the children and cuffed the dog That fawned about his knee; And snatled at his wife, though she was hind And patient as wife could be.
He grambled, and whined, and fretted, and fumed,
The whule of the long day through.
"Twill suin me quite." cried Farmer John,
"To sul here with nothog to do!"
His hart got well, and he went to work,
And a busier man than he.
A happier man, or a pleasanter man,
you never would wish to see.
The pigs got out, and he drove them back, Whisting rught merrily;
He mended the fence, and kept the cows
Just where they ought :o be.
Weecing the garden was jolly fun, And ditto hoeing the e-rn.
"I'm happier far," suad Farmer John,
"Than I've beca since I was born."
He learned a lesson that lasts him wellTwill last him his whole life through. He frets but seldom, and never because
Iic has plenty of wark to do.
"I tell you what," says Faracer John, "They are cither kinaves or fools
Who long to be idle-lor idic hands
Are the Devil's chosen tools:'

## TLE MEENORY OF ANTS.

The general fact that, whenerer $2 n$ ant finds her way to a store of food or latrx, she will retum to it again and again in 2 more or less durect line from her nest, constitutes ample proof that the ant remembers her was to the store of food. It as of interest to note that the nature of this insect-memory appears to be sdenueal with that of memory in general Thas, a new fact becomes impresced upan 2nis' memory by repeision, and the :raprexion is lialte to become efficed by lapse of sume. Sir Jobn Lobbock found it nreessary 10 teach the insects, by a repethinon of sereral lecsonk their way io the doration of memory in ants, it does not appear that any direct expenmen:s hase been madn; but the followion oth searation by Mr. Bett ou uts apparent curation in the lesi-
cuntiag ant nay be here stated: In Jene. JS59. he forod his culting ant may be here stated : In Jene. JNS. he romad his garden invaded by these ants, 2 hondred yards distant. He poured down therr burrows a pint of dilated carbolic acid. The maravding parties were al care drawn off from the gasden to meet the danger at home, Thile in the burrows themselves the greatest confasion prevailed. Niext dias he found the anis busily cagaged in bringing ap the ant-food from the old brirows, and carrying it to newly.formed ones a few yards distant. These, howerer, tarned oat to be anteaded onls as temporary repositories : Ior, in a few dapx, boih old and new barrows weie eniricly deseried, so that he supposed all the ants io havedsed. Sobsequently, howerer, he foand that ther had migrated to a new sute abont 200 gards from the old one, arid thete esiablisicd themsclice in a new nesp. Twelve months later the ants agana intaned his ganden, and
ajain he tieated them to 2 sitong dose of carbolic acid. The ants, as on the previocs oceasion, were at once with
"all the survivors at work on one track that led direct 10 the old nest of the year before, where they were busily em. ployed in making new excaralions. - . . "It was a wholesale and entire migration. Ar. Belt adds: II do recullected the nest of the year before, and directed the migration to is."-Grorge /. Romares, in Popular Science Alonthly for Augish.

## IMAGINARY DISEASES.

A medical writer believes that two persons in three who consider themselves invalids have no serious ailments, and only. ${ }^{4} \mathrm{I}$ Jardly a day passes that I do not see this opinion only. "I Jardly a day passes that I do not see this opinion
verified. There is often shme disturbance of the system with those who ask advice, but they are not uspally afficted in the manner they had supposed, and most frequently not setiously ill in any respect except as to the imapination I have never suffered an hour from any sort of illness, since acquiring the knowledge and experience which enable me io arconunt for many of the seeming phenomena incident io human life; previous to that the monotony of my life would be occasionally interrupted by a scare, from which I would suffer during the time it required to reach the nearest comFetent physician. My imagination has thus presented meat various times with heart disease, kidney troubles, and liver complaint, each of which I left behind me when I came away from the doctor's, and have never heard from since. Few people have any iden of the aggregate of suffering and misery that is silently endured by thousands of our fellowbeingi, under the supposition that they are victims of incurable diseaser, when, in fact, there is nothing serious the matter with them. Every fhysician of experience is able to refer 10 many cases where he has been abl. to lift 2 terrible weight from the crushed spirit of some suffering mortal, by explaining away his fears. It should be more satisfactory to a humane physician to quict the fears of one imaginary invalid, than to have a hundred rich patients who requited his services. And yet as to imaginary diseases, let it not be thought that 1 srould advise any person to quietly convince fimsclf that there was nothing the matter, and thus silence his fears; there might be some serious trouble, and then the advantage of early ireatment would be lost. A skilful physician should be consulied in every duubiful case. The probability is he would find the patient sufferine in most casec from dyepepiaz instead of heart disease, or from mal. aria inclead of Bighi's diveace of the kidneys-ihat is, fsom a curable instead of an incurable disease."

## SWEET HOME.

When two young people love each other and marry, they restore the picture of the apostolic church. They a e ofone heart and one soul. Neither do they say that anything they possess is their own, bat they have all things in common. rarh other, draws out all that is best in both. love is the angel who rolls away the stone from the grave in which we Iury our better naiure, and it comes foith. Love makes all things new; makes a new heaven and a new earth; rrakes ali zares light, all pains eaus. It is the one enchant. ment of human life which realizes Fortuaio's purse and Aladrin's palace, and turns the "Arabian Nights'" into mere prose hy comparison. Before real sociely can come. itrue homes mut cume. As in a sheltered nook in the midst of the great sta of ice which rolls down the summit of 1 Mont Blane is found a litile sreen spot full of tender finuers, so in the sheltes of home, in the warm atmosphere of household lore, sping up the pare aff.ctiuns of parent and child ; father, muther, son, daughter; of brothers and sisters. Whatever makes this insecure, and divorce 'frequent, makes of marriage not a union for life, but an exprri-ment-which may be tricd as often as we chooje, and abandoned when we like. And this cats up by the roots all the dear affections of home; leares children orphaned, destrojs fatherly and motherly lore, and is a virtual dissolu. lion of socicty:-f̛ames Liresman Clerk.

## TO A MODERATE DRINKER.

No, not even the millest of the Califormia wines will prove useful. Wine is no more healithful than alicohol dilated in water. Suppose a trine coniains seren per cent of alcohol-and ithat surely would be light enough-it is no it. The winc is practically just that, with a litile colouring it. The mine is practicalls juss added, with a linie colouting matier added. Often. rery often, there is an addition of
poisonozs adolietaling stuff. There is no donbs, as 500
 wretchsd sluff, pering 2 man 0 ort and making his bria
 advise you ic tr. It may taste strange at firs, but you will
find it the best dink when sou are sick or well, when yoa are hot or mild, indeed under all possible circumstences. Dr. Di Lrevis.

## SIHJPING HARD PLACES,

Boys, I want to ask you how jou think a conqueror zade out who went through a coanity he was trjing 10 subdoe, and whenerer he found a fort hard to take, let it alone. Don't joa think the enemy woald buaz wild there, like tees in a hire, and when he was Fellinio the hear of she conatry
don't yo. fadcy they would swarm oat and hasast him don't 50
tenibls?
teribly?
just so. I want gou 20 remeraber, will it be with yon, if Jost so. I want you to remeraher, will it be with yon, if
yoa skip oret the hard plabes io your lesions and leare them unlearmed; 5ou have left an enemy in the rear that will not fail 10 harass 300 and mortifs you times withoot nember.
"There was jest 2 litile bit of my Lalia I inda't jead," said 2 rexed stodent 10 me e" and it was jast there the Professor had to call epon me at examinasion. There were
just tro of three examples I had pasiod orer. and ove of
them I ras asted to doon the Jiackbord."

The student who is not thorough is never well at his ease ; he cannot forget the skipped probleme, and the conscious. ness of his deficiencies makes him nervous and anxious.
Never laugh at the slow, plodding student; the time will surely come when the laugh will be turned. It takes time to be thorough, but it mote than pays. Resolve, when you take up a study, that you will go through with it like a sucif the inaccurate schelar's sting point.
If the inaccurate schnolar's difficullies closed with his school life it might not be so great a matter for his future cateer. But he has chained to himself a habit that will be like an iron ball at his beel all the rest of his life. Whatever he does will be lacking sumewhere. Ile has learned to
shirk what is hard, and the habit will giow with jears.shirk
Arow.

## CIRCUMSTANTIAL EVIDENCE.

A lawyer in Central New York gives the following account of one of his first cases:
My client sued a neighbour for the alleged killing of 2 favourite dog. The proof consisted in the mysterious disappearance of the animal, and the possession of a dog's skin by the delendant, which, after considerable aryument, was brought into court in evidence. It was marked in a singular
manner, and was positively identified, with many tears, by manoer, and was positively identified, with many tears, by
the plantiffs wife and daughter, as the undoubted integument the plantiffs wife and daughter, as the undoubted integument
of the deceased Bose. In summing up to the jury, I was in of the deceased Bose. In summing up to the jury, I was in
the midst of a highly coloured picture of the virtues of the the midst of a highly coloured picture of the virtues of tour
deceased, and oo the love of the childrea for their fourfooted friend, when I was interrupted by a slight disturbance in the croud near the door of the lette school house which served 25 court bouse, Looking around, I saw my client's
youngest son, a tow-headed urchin of twelve, coming for youngest son, a tow-headed urchin of twelve, coming for-
wand with a dog whose skin was the exact counterpast of the one put in evidence. The dog wagged his tail with good-nalured composure, and the boy cried, in his childish treble, "Paw, Bose has come home." I gathered up my
law-5ooks and retreated, and I never had perfect confidence law-50ks and retreated, and I never had perfect confid
in circumstantial evidence since.-Hapr's Magazine.

## WHAT IS WATER FORI

Water is so common we hardly think or it. To begin
with, water was God's builder of the world, as we sec it with, water was God's builder of the world, as we see it
The rocks were mud and sand made by water and laid down The rocks were mud and sand made by water and laid down
by it, one kind on top of another. Coal, made of plents, was covered up by water, so that the rotten plants were kept these and changed te coal. Veins of lead, copper, gold,
silver, crystals, we:c cracks in the rocks, filled with water silver, crystals, we:e cracks in the rocks, filled with water
that had these precicus things disolved in it. And water, as ice (glaciers). ground up rocks into earth, in which plants can grow the sea and streams helping to do the work. Water builds plants, and animals, 100 . Threc-quarters of
what they ate made of is water. When you pay twenty What they are made of is water. When you pay iwenty
cents for a peck of potatoes, you are seally paying fifieen ot cents for a peck of polatoes, you are really paying fifieen ot
the cents for the water that is, in the potatoes. A boy who weighs eighty puands, if perfectly dried up, would weigh only twenty pounds. And there coold be no potatoes nor
boy without water. It must discolve things to make them into yew things ; and bood. carries the food to every part of the boily to make bood, carries the food to cuery part of the boily to make
new fesh and bones, tha: wie may grow and have strengh. new hesh and bones, tha: we may thow and Wave the platernes man and goods in boats, and, as s!eam, drives his cars. It makes the whecls go in his ractorics. It is 2 great worker,
and we could not get along without it. And it makes much of the beanty of the world. Ask jour fiexd how it does that.-Aroon.

## REST AND REPAIR.

There is "food for thought" in the following extract from the London "I Lancet :"

It may be sarely assumed that those have been mistaken and that repair goes onduring quiescence. Nutrition $\rightarrow$ and therefore repair goes one dining quiescence. Nutrition-2nd is ole thing, the power to diges food another. A man may feel ravenoss, and consume flarge quanitities of material conpriate the sapply farnished, or, in other words, to nourish hiate the sppply farnished, or, in other words, to nounsh Tithout rest, and idieness withont the estoration of enertys. direct proportion to the ritaluty of the organ rested. This facelty is not to be called into action by inactivity It fol. lows that relief and recorery from what is improperls called "orenwork" cannot be obiained by simpls "going away
for change," or by indulgence in adjeness. A new furm of exercise is necessias, and the mode of action chosen must be one that sopplies moderate exercise to the part of the sys.
tem which it is required to " rest" and "sestore." Healh. seekers ofien ert by uging to recores their poxers by simple diversion of eacrgy. It is 2 popular error to sappose that Whea the brain is orerworked the muscular system should be exercived by way of counteraction. The part itself mast be should be set to fresh work, which will iacite the same powers to act in a dew direction."

## SILENCE ASOTT OURSELVES.

Think $x s$ litile as possible about any good in sourselt ; $t u m$ Focr cyes resolutely from any view oi joursequirements, foer infacsoe, your plan, your sycoess, yoar followng-2bove all.
speak as litue 25 possibie aboat younclf. The inord:naleDess of our self-lore makes speec. abort ourselves like the porting of a lighted torch 20 the dry wood which has been laid in order for buming. Nothang bet daly shouht open oas lipy upon this dangerocs thenac, exe
confeavion of ocr sinfalness belore God.
Agria, be specially upon the watch arginst those litle rerration to himself, and gain the praise or notice which his
thirsty ears drink in so greedily. Even if praise comes unsought, it is well, while men are uttering it, to guard yoursell by llunking of some secret cause iur humbings yourself inwardy to cood, thinking uato what these pleasant accenis
would be chan, yourself, stood revealed to man.
Place yourself ofien beneath the cross of Calvary; see liat sight of love and sorrow ; hear those words of wonder ; as at the Eiernal Son humbling Himself there for you, hope is in that cross of absolute, self. sacrifice and self-abasement, can dare to cherish in lumself one self-complacent action. Let the Master's words nng ever in your ears :
"How can ye belicere, who recelve honour one of another How can ye believe, who receive honour one of another,
and seck not the honour that someth from God only?"Bishop Wilberforcs.

## TOHN PLOUGHMAN'S HISE SA YINGS.

Don't be whining about not having a fair chance. Throw a scusible man out of a window, he'il fall on has feet and ask ine nearest way io his work. The raore you have to begin with, the less you will have in the end. Money you carn yourself is much brighter than any you can get out of $a$ dead man's bags. A scanty breakfast in the morning of life whets
the appecite for a feast later in the das: He who has tasted a sppente for a reast later in the das. Your present want will make future prosperity all the sweeter. Eighteen pence has set up many a pedlar in business, and he has turned it over untip he has kept his carriage. As for the place you are cast in, don't find fault with that ; you need not be a horse because you were born in a
stable. A hard-working young man with his wits about him will make money, whle others will do nothang but hime it. "Who loves his work and knows how to spare, may live and flourish anywhere." As to a litule trouble, who expects to find chernes wathuut stones, or ruses without thorns? sick of the mulligrubr, where industry finds healith in and wealth. The dog in the kennel barks at flies, the hunting dog does not know that they are there. Laziness waits till the niver is dry, and never gets to market. "Try"
suims it, and makes all the trade. "Cant-do-it " made suims it, and makes al
meat out of mushrooms.

## CURIOUS NUMERICAL PACTS.

The length of a solar year is 365.242 days. The length of a degree of longitude at the equator-taken from the printed Geudetical Tahles of the Bitith OrdnanceSurvey-is 365.234
feet; so that if the number of days in the year is divsded by leet ; so that if the number of days in the year is divided by
the number of teet in a degree, it will give 1,000 nearly the number of feet in a degree, it will give 1,000 nearly;
more exactly 999.977 , which, it applied to the loot, would be more exactly 999.977, which, it applied to the foot, would be
within the thousandth pant of an inch of its true length, a within the thousandth part of an inch of its true length, a
quantity that cannot be seen. quantity that cannot be seen.
Agzin, the length of a degree of latitude at the central
point of the British Island -according to the autherity point of the British Island-according to the authority given above-is 365.242 fect, so that the length of a degree of hati-
tude, measured on that paralle, divided by the number of tuace, measurec on that paralle., divided
dass in the gear, gives exactly 1,00 feet.
dass in the fear, gives exactly 1,000 feet.
Now, in 2 year and 1. . : number of feet in a degree of latitude or of ongitude; but a'ter the lapse of a few thousind jears, the the globe may py the inhabitants of Great Britain the same onmpliment liat some scientific travellers are now paying the Epyptians, 1 od attribute to scientific refinement that Which is simply an aceidental arreement in ndembers.
Stone" desire to commend to the zuthor of "A Miracle in Stone." Who imagines that, becuuse a correspondence has been discorered beticen certain dimensions or the great py-
ramid in Esjpt and the diameter of the earth, that therelore the prramid was brilt by the ciirection of the Almighty, and the pyramid kas built by the circecion of the Almighty, and measurement for the world.

## FEMfALE SOCIETY.

What is it that makes all those men who associate habitually with women superior to others who do not? What makes that woman who is accustomed to, and at case in the sociely of men, superior to her sex in general? Solely because hey are in the habis of free, gracelul, contunued their finvolity, their faculues amaken, their delicacies and pecoluantics unfold all their beauty and captiration ta the spint of intellectual nralry. And the men lase thers pedanuc, rede, declamatory, or sellen manner. The corn of the noderstarding and the heazt changes continually: Therir appentics are robbed off, thers belles materals polished and brouncened, and therr rechaes, ite kold, is than it erer coald be by those of mien. The iron and steel of theit characternare hidden, like the character and armoer of 2 §2ant, when they are not wanted in actcal mariare.

There are lour classes of men who priat accoanats of theit trarels. First, we have the makers of " rours " and " tnps " known as having tarelled and as "zuthors" To this gleat primary division belong young londs frech from the naircrsity, who, befure going inio "the House," hang up their Fame in the form of Rambles in the Rocky Mosatains, zad ladics who yeref dreata that there is 2nythna worth knowing which is not in their gaide-book. Then we have the calkine man ian show, gets his luring bs exhibiting the geat panoramiz of the turld. ific is invariably " 2 bit of 2 amoar the Grecks of several exellent proveths which discredit all truth in all tourists Abore these we have the peregrinations of great poici, scholars, or diplomatissis; and hanally the scientific iareller, who, with an object in riew,
from which death itsell mast not dagnt him, pashes on biarely to the ead.

## IIINTS FOR LADY READERS.

Milk which has become suur may be sweetened or rendered tul fur use agan by sturing in a little soda.
The yolk of an erg rubbed thoroughly into the hair, and thes uashed
remarkably.
Skikts are less scant and clinging than heretotore, and trimmings are beginning to be put on plain, rather than cathered or fluted.
Godey's Lady's Book says that dresses for this season are likely to be made up a geeat deal more plainly than they fre been for many seasons past
Preserving "skeletons" of leaves, seed.vessels,etc., is a long and tedious process. It is done by macerating them
in soft water, and carefully washing away the green malter as it decays.
Sriders and their webs form the designs embroidered on the flounces and waistcoats of some Paris gowns. Gold
thread is the materal usually employed for this work, but thread is the material
sometimes silk is used.
OUR fashion correspondent failed to make mention of it, but buckwheat cakes this season are cut round, of a light brown colour, old gold and amber being the prevaling tints used for trimming.
Normso is bettor for childron's morning dress than a sacque princess dreas of bluo or pink gingham, edgod with a yoke princess dross is pretts.
Trapellisa costumes aro made as plainly as possible, with eithor a gracefully draped polonaise, and quite short skirt, or olso tanio and corsage machino stitched round odges, or trimmed a gelf-coloured cord.
THE importance of sunshioe in rooms devoted to the sick is bejond all calculation. This has been proven io hospitals by experiments again and again. If the bed can be so placed that the patient can see, 2 good reach of blue sky, it
will do him or her more good than 2ny drugs. Never enter a sick soom in a state of perspiration, as the moment you become cool your pores absorb. Donot approach contagious diseases with an empty stomach, or sit between the si:k and the fire, because the heat attracts the vapour. Preventives a:e better than any pills or pnwders.
A writer in the Gir 15 Owin" Pafar advises " young housekeepers never to be careless in.tea making. Warm the teapot and cups, wait till the steam puffs from the spout of the ketle, or lid of the urn, before you pour the boiling wates on the tez. Hall fillite cups, and then add more water to
the teapot before filling them up, unless quite sure shat it he teapol before filling them up, unless quite sure shat it
holds all that will be required without being replenished. Also, never forget the 'coiy' cap, which, should there be none as yet amongst the other applianoes of the breakfast
table, I adrise you to manofacture forthwith for yourselves." The Sientifi American gives an engraving of a very cheap jet strong and compratable chait which maj; be made as elegant as the tastes of the maker may diciate. The chair consists nelerely of a barrel cut off above the second hoop so as to form 2 complete back witt hall arms at the side. The batrel thus cut is mounted on two strips of wood, having casters under their ends, and brackets abore to form the legs
and to add to the appearance of the chair. A bead is fited and to add the the appearance of the chair. A bead is fitted
to the circulat portion and the whole is neally upholstered. to the criculat portion and the whole is neally ypholstered.
Of course it is necessary to select 2 good barrel bound with Of course it is recessary to select 2 good barrel bound with iron hoops, and a hitle care should be taken in the up
tering to disgaise the barrel form as much as possible.
THe finest-looking specimens of manhood in every class a:c to be found 2mong men between the zges of 35 and 50 ,
but how many comely women can be found eren among but how many comely women can be found even among those whohare compassed only the smanler number of years mentioned above? The home-work of woman, whether she
be wife or servant, needs revision; if only scaius can casable be wife or serrant, needs revision; if only genius can enable a person to be at the same time samster and serrant, nurse horld inake itelf xnown for the beacfit of those who are Gohing magnificently against orerwhelming odds. With 2 tighter phrsique that is occasionally subject to peculiar duties to which that ofman can offerno parallel, woman is expected to daily endore 2 strain that no man woald tolerate for any lengh of time. Until what is modestly called housekerping is recognized as the noble science that it really is,
and is carelully studied, the slavghier of women by orerand is carelully studiod, the slaghter of women by orerwork will continue, for at present it requires that every
woman shall be a projim of sense, jndustry and endurance.
Woollen diessesare the special feature of autumn and winter seasons. - Iain cloths mill be used for a variety of serviceable dresses. Ther hare been prepared with exira carc, are shrunk, and are to be cought in a rery long list of colorniags, which are not affected by rain, ard are cheaper than heretofore. A nsw siyle of making cloth dresses comes to of from France, A box-plaited flounce boiders the short skirt; the oretdress opeos op the front and is quite straight, meetiog at the back from the nack in triple plaits. this overdress is formed into long slecres reaching to the flonnce, the arm, corered with a tight fuling sleeve, coming throarth the rpper portion; the bojice is foll and belted, with ribbon lastened in a large bow at the side or the front. Plain foales, semex, ricanas, cashmeres and merinos are all ro be
rorm, 25 wei; as a few rich hrocaded woollen and silk clolhs, worn, 25 weik 25 a few rich hrocaded woollen and sik cloltas, mixed with piain material. Dark bloes, military blac plom, brown, 2 ad gray, toxether with lerta cota, will be the
aroutite colorss Scoich staff, wih plaids and checks, are used, especially the large checks, which require skilfal matching: but the paricular notelts of the manafactorers are the shaded stripad iweets. These sombre stripes are rom If inches to 2 inches wide, and are of wo coloers, sach as blac and gold, gold and brown, black and brown, the colorta shoi together as well as blended in the stripes. These are being made up es polonaises, jackets and overdresses. Fith plain iweed; anci many plain matcrials hare striped borderings. Tinsel is introduced into sereral uinter fabrics, expecially into the 2000 mpanying frimaniag; for cx-
ample, a plain tweed, with 2 bordering of coarse interplaited ample, a plain iweed
sijk, shot nith gold.

## YOUNG CANADA.

## POLLY'S FURS'T ILALW DOLLAR.

"Inever had a wholo half dollar in my lifo I suppose it is because grandma is so drefful poor, and I haint got any father and mother, only just her."

Polly, the six-year-old Miss who made this re mark, was quite horrified at sceing Agnes Bond toss up a four-bit piece on her way to the store.
"I know your grandma is poor, but I like you all the same," and the affectionato girl put her arms lovingly around the forsaken-looking child.
" What be you going to do with all that monoy, Aggie?"
" O, I don't know, yet. Buy walnuts, perhaps, or oranges. What would you do with it, Polly, if it was yours?"
" I'd buy grandma a new dress, and some shoes, and some flour, and some butter, and some candy, and some-"
"Stop, Polly, you couldn't buy so many things. You might get some butter, or the candy, but dresses cost lots of money. You sit right still on the grass until I get back."

Aggic mn home as fast as she could go, but soon returned in a happy state of excitement, and all out of breath.
"Here, Polly, ma says you may hare my half dollar, and buy what you please"
"O my!" cried Polly, in great glee "Let me kiss you, and I'll go and trade my things before grandma comes. She's up to Miss Holley's, cieaning up the house, and I guess ste'll be surprised."

The little friends parted very happy, Aggie for home without her walnuts, and the young financier to the store, her head filled with shoes, dresses and grocerics. She tiptoed to look over the counter in Mr. Jones' store, and found that gentleman sitting at his desk.
"What will this little girl have to day?" he asked tenderly, thinking of his own darling, who but a month ago had closed her blue eyes never to swaken.
"I want grandma a dress, because she is so ragged, and some shoes, so she can go to church, and some molasses."
"How much morey have you, my dear?"
"I've got a whole half dollar that Aggie Bond gave me"
"Aggie Bond is a precions child," said Mr. Jones, recalling the sweet flowers she had so often sent to his sick Maggic.
"When will you get my things?" asked Polly, tired of standing so long on the tip of her toes.
Mr. Jones thought the matter over. "A dress and shoes-the original cost could be but three dollars and a half. 'He that giveth to the foor lendeth to the Lord.' I am afraid that I haven't lent tho Lord as much as I ought."
"I'll mait on you in just one minute, Polly. Come right around here and pick out grandma a dress yourself. Anything in this pile," said he, touching a lot of ginghams as he passed.
"I'll buy this," and she laid her hand on the only piece she could reach.

Aiter tying up a bundle of the gingham and shoes, and making 2 strong loop of twine to carry it by, he put the half dollar in his pocket, and Polly laughed for joy as she turned to go.

The trauler thought of his own little daughter asrin. "Look here, Polly, I're made a mistake; I forgot to give you the change"
"I forgot, too," said Polly; and she turned back to receive irom Mr. Jones two half dollars.
"Are we all square now ? " asked Polly.
"I think we are Why didn't you buy something for yourself with your money ${ }^{\prime \prime}$
"Why, I just forgot mysclf. And I don't know as I want angthing."

Polly's grandmother could not undersiand what it all meant, as sho examined her nico presents and the two half dollars.
"Aggio gave mo tho half dollar, and I bought the dress nad shoes, and had this left."
"But this is more than you had at first." It looked a littlo mysterious to Polly, but sho concluded it was because he did not givo her the flour, and butter, and mulasses
It was made clear to the grateful woman when Mr. and Mrs. Jones called that evening with dresses, aprons and shoes that their little girl had worn, and gavo them to Polly. Sho clapped her hands for joy.
"Everybody is dreffil good to me, and I'll trade with Mr. Jones every time I go to buy things. He never cheats a bit."

## HALLOI GACK FROSTI

Hallo! Jack Frost !
I thought you wero lost;
I was really troublod abont you.
I leared, it is true,
The mhole winter long rithoat you:
No ice on tho lakes,
Nor any snomakes,
Nor chanco for a slido in the gutters;
Our skatos and gleds must
Be corered with rust,
And ruined thoso beautifal outters.
That skim oocr tho ground, To the musical sound
Of bells that go jinglo-n-jingle,
When soft lies the gnow,
And chill breezes blow,
ADd hearts havo a merricr tingle.
Hallo! Jack Frost!
I thought sou सero losh,
You are such a terrible rover, Or elso. frozen fast
To the North Polo at last,
Yon'd rtay till the wintor was orer.
But hero yon are now,
Wid scon will tho breezes mellox
Ring sharp and clear,
And shouts of cheer
Will welcome you back, old fellow!
Ny miltons and cap,
My skates and strap.
And slod, are ever so handy,
Jast raiting for you
My beautijal-Jack-a.dandy!
And scon wo'll go
Over ico and snow;
And soon rill the slcigh.bells' ringing
Join in the $50 n 6$
of boss and girls who ase singing:

## Hallo! Jack Frost!

Wo thought jou were lost ;
Wo wero really troublad about you.
And fcared, it is true,
The wholo winter long withoat yon! -Goscphine Pollard,

## - CURED BY KINLAVESS.

"You oughtn't to do so," shouted Willic, as the butcher dashed past in his waggon, giving the whip unmercifally to his half-starved horse Another moment, in turning the corner, the waggon was unset, the horse broke into a run. The waggon was broken to pieces, and the man thrown out and badly injured. Next day "the vicious beast" was offered for sale. Willie's father bought him for a low price for use on the farm. It was a foolish bargain, people said, for the horso was quite uncontrollable. Esen the owner said he would bite, rear, kick, and run arag. But Mr. Ely bought it to please Willie, whose tender little heart was full of pity for the poor animal. "We vill bo so kind to him that he won't rant to bo bad, papa." So they agreed to follow Willie's plan.
Before long Mrs. Ely and Willio began to drive the horse. People were surprised at the change
in him. "Ho would go as slow as desired," said tho gentleman who told tho story, "stop instantly at 'Whon,' follow his master, como at his call, and rub his head on his shoulder."

What has made the change? Not force! The poor horso had been beaten, kicked, and starved before, and grew more and more stubborn. Now ho was well fed, well bedded, well watered; not over-driven or over-loaded; never whipped, kicked or scolded. Kind words were given him; and now and then an applo or a piece of sugar. No gentler, safer, or moro faithful horse went on the road. Willio's plan had succeeded. The little fellow fairly lived with tho horse, and the horse seemed to know he was his bost friend. Ben was a favourite with all the family. Ono night Mr. Ely was nway from home. Ife had taken Ben early in tho afternoon, but when bed-time camo he had not roturned. Thinking he would not be homo that night, the family closed the house and retired.
About midnight Willio heard Ben's neigh. Jumping out of bed he ran to the window, and there was Ben at the door without his father. In a few moments the family were aroused, and Willie's brother hurriedly opened the door. No sooner had he done so, than Ben turned round and trottod off toward the road. He fcllowed him duickly. Ben led him a quarter of a mile and then stopped. There Mr. Ely lay on the ground in a swoon. When he was taken homo he soon recovered, and told them that as he was riding through the woods he struck his head against the overhanging branch of a tree and fell from the horse. He was stunned by the blow and did not remember anything more. After that night Ben was the hero of the village. But there was one strange thing about him: ho never forgot either a benetit or an injury. Sometimes when in harness he would see his former master. Then all his old fire would return; his eyes would roll, ho would champ his bit fiercely, and show an intense desire to get at his enemy. Only Willic or his father could quiet him then. Ben taught the people of that village more than they ever knew before of the power of kindness. And a good many of Willie's little friends began to practise his way of treating their dogs and ponies. They found that the surest way to manage them was by kindness
This, you know, was Mr. Rarcy's way. It was his secret in training horses. If any of our boys have any doubt on the subject suppose they try it for themselves, for this story of Ben is a true one.

## IEEACII TIE BOIS ABOUT IT.

At home and at school the boys should be thught the natural effect of alcohol apon the processes of human life. First, they should be tanght that it can add nothing mhaterer to the vital forecs or to the vital tissues-that it never enters into the elements of structure; second, they should be taught that it disturbs the operation of the brain, and that the mind can get no inclp from it that is to be relied upon; third, they should be taught that alcohol indames the baser passions, and debases the feolings; fourth, thoy shoald be taughtthatan appetite for drink is certainly formed in those that use it, which destroys the health, injures the claracter, and in millions of instances becomes ruinous to fortuues, and to all the high interests of the soul; fifth, thoy should be taught that crime and paupcrism aro directly caused by alcohol. So long as $\$ 2,000,000$ aro daily spent for drick in England, and $\$ 2,000,000$ per day in the United States, learing littlo clse to show for its cost but disersed stomachs, degraded homos, destroyed inùustry, increased pauperism, snd angrarated crime, tho boys shoulia understand tho facts about nicoliol, and beable to act upon them in their earliest rosponsible conduct.-Parish Mraga=inc.

## Sicutific mull Storful,

Sirearmint tea is very good for children troubled with worms. I have seen sage used for the same purpose.

A plannel folded several times and heated on the stove will, if changed often, relieve severe pain in the silie or stomach.
For toothache caused by cold, take a woollen cloth of several thicknesses wet with vinegarand put over a hot brick or stone, with something thrown over the head to keep in all the steam.

A SURe Cure for Childains.-Three applicalions of vaseline will cure the worst
case of chilblains. For ordinary cases one case of chilblains. For ordinary cases one or two applications will fe suthcient. Al.
though vaseline is made from petroleum, it is far more rapid in its work of healing than kerosene.
Tue ordinary length of the hair is from twenty inches to a yard, and its weight from six to eight ounces. The speed of the growth half an inch per month. Observations have shown that the hair crows faster in youth shown that the hair grows faster in youth
than in age, by day than by night, in summer than in age, by day than by night, in summer
than in winter, when cut than when left unthan in winter, when cut than when left uncut, and when frequently cut than when cut
seldom. Constant shaving makes the growith more persistent, and increases the coarseness more persistent, and increases the coarseness
of the hair. After illness, in which the hair has fallen, if the patient be young, it is advisable to shave the head; otherwise the hair may remain thin and poor.

How to Cure Frosted Feet.-The late cold snap makes a republishing of the late. cold snap makes a repubishing of the
infallible cure of frost bites desirable. If it be the feet, make a strong lime water, as hot as you can bear; thin whitewash will do. Soak your feet in it from fifteen to thirty minutes; then rab them thoroughly with the palm of the hand, removing all the dead cuticle that the lime has loosened. Anoint with sweet oit or lard. nepeat a rew tieved, but cured-and that terrible itching is gone, that may otherwise follow you a life-time. Ointment made of lime-water and sweet oil can be used on the ears if they are frosted.
Hops have many uses. A handful of them steeped in a quart bowl (always steep in carthen) of water until the sterngth is extracted, strained and sweetened with loaf sugar, and bottled for use, is as good or better than
any hop bitters cver purchased. Doso, one glass full taken three times a day; is a good antibilious alterative.and tonic for ordinary family purposes. For outward application, make some small bags of colton six inches square and fill with hops. When the face aches, or the head is in pain, or the throat and chest are sore, heat one or more of these bags rery hot, up to scorching the cloth even, and apply to the suffering part. It is a great improvement on wet cloths, or wet applications of any kind.
Very few persons are aware what 2 valuable auxiliary turpentine is in many diseases. It is a sovereign remedy for croap. Saturate a piece of flanael in it, and place the fiannel on the throat and chest, and occasionally two or three drops on a lump of sugar may be taken inwardly. Nothing better than turpentine can be applied to a severe cut or
braise, and it will give certain relief almost instantly. Let any one who has an atlack of lockjaw take a small quantity of turpenline, warm it and pour on the wound, no matter where it is, and relief will follow in less than 2 minute. Flannel cloth wrung out of turpentine into hot water, as hot as the patient can bear, is one of the best of remedies for inflammation.
Celeny for Rueunatisas.-A Geman physician states that celery in 2 cooked state is a certain cure for sheumatism. It should be cut up in small pieces aud boiled in water the patient. The soft celery should thed be cooked with some fresh milk, meal and nutmeg, served up with toast and eaten with potatoes, and the pain will 'immediately cease. The physician says that the has repeatedly cmployed this remeds, and always with success. IIe altributes the origin of Theumatism to 2 c acidalated siate of the
blood, and not to cold or humidity. When it is readered alkaline neither goat nor thea matism can occur. English statistics shew that in one year, $1 \delta_{j} 6,3,6 \$ 0$ persons died of rhenamtism. At least $\{=0$-thirds of the complaints known under the general name of heart disease are 10 be ascribed to shitumatism and its painfal ally, the gont.

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where teras, ete, will be fomished.

## ALMA

## LADIES' college,

ST. THOMAS, ONT.

This now ingetutlon, tho doslcy of Which has
ubt securod mirbt lrize at tho Provinclal Falr, \{utsocurod Mirst Yrize at tho l'rovinclal Fair, Is to bo
OPENED ON THE ISTH INST.,
 yroaching tho Dedleutory sormoni A lecture frum somo bromiternoon, and a Convorsazione holdin the ovoulng. Tho buildingenro sala to bo eho nuost in tho Doininion, and the sturs of Instractors, it is claimod is full, complotenng
otlleient. Wo nro plearod to noto thut tio fin ytitution is projocted and is to be conductod ou a purcly Loasovolent busis. tho entiro cost
bolng inot by tho voluntary coutrivutious ot boha mot by tho voluntury contrivations ont poog tho ound eloncy of tho tichool, and loworlig the ratess so that tho humblor nind desorvivs
classes may Lo roachorl nud bonodiod. Wo uro
 votod to tho Jiusical and Fino Art Dopartment. Prof. Huyttourunch, of Loudon, having becu
secured us Jruaical Mnster and F. M. 13011
 Ably, ho linving Geon nomlunted to that posi-
ton by tho Outario Socloty of Artists. Tho Hov. 13 . F Austin. 13.D., of Ottawa, who has beon orgaulxias Ho Colloge.

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This I Iome. justhy colouratod for juccese ful trontmont of lavilids of both soxes. is con ductod by a staf of "regularly" quallaod and
 magank whijeh tho loarining and experienco of
tho day haro placel nt tho servico of tho libertho day haro placed nt tho sorico of tho llber-
ally minded jhyadelan. Tho disonses poculiar
 nad aksistanta. Tcrns forboard nndtromement
 C.31. MI.C.E.S.: Mra Jonny '

## GARFIELD

Has cono to hinlong yest nnilthonations momin his decoase. Knowledgo is jorrer, nimd by its projor uso javiosm. Garhold roso from being Unitod Statos.

## THE PACKET T HOUSE

190 KENG \&T. EAET,
Odformithorerg threo poandsof thelr celcbrated Packot Toa a ralunblo beok that will finpart MOUSE fires tho bost valuo in tho Vominion ins Toa, and rith overy threo pounds of it a hand
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Neto and Perfect Remedy for Hernia. Tho rosilts of this now discorcry for the cor ishine and gratiffing. This now Truas is worn with creat comport. oron by an infans, night nna day. It yidids to orery motion of the
body, alws setalulas tho Runturo during, the hardeat oxcrelse or sovorent furain.

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mever mores from ponlion.
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## SPECIAI．NOTICES．

Wurle atteuding tho Provinoinl Exhibi－ tion，held at Condon，tho fue display of Agrionltural Implemonts made by the Globe Works Company of that city attractod not only our attention but tho attontion of overs farmer visiting tho Exlibition．Among the mauy labour－saving implementa shown
 was tho centro of attrnction This muchine ombodien overy fenture to render it a per－ ect reaper．It is constructed throughout with a riow to couvonienco in haudiag to strength，durability aud simplicity，All its parts are mado of tho best matorials，and it possesses so many execllent features that
it is pronouncod by all tho ouly pertect it is pronouncod by all
reaping machine mado．
Tire Now Autumatio Tilling llake with Which tho Ispernats is equipped is certainly the most porfect Kurking nechanical dovicu wo have seen on auy reaper Its mover ments are cass and positive，and its gather－ ing and sheal－making properties aro most perfect．In fact，the wholo machino bas only to bo soen to convince the most scep． tical of its great saperiority over all other reapers，and ovory farmer should not con－
sider himself possessing a porfoct lurvest－ sider himsell possessing a porfoct larrest－
ing machind unlcss ho has tho Iarzaial

Tar Globo Works Company make the clebrated Model Mower，the most perfect， simple and effective morror said to bo in the market．Also the Centennial May which is pronounced the wost accurato soming drill in existence，and which was amarded the Highest Houours at the Cen－ tennial Exhibition over all compotitors． The Globe Works Compnay also mako Hand and Power Catting Bozos，Horse Powers，Gang Ploughs，Corn Ploughs and Ploughs．In fact，our readers can bo sup． plied with the rery bost implements by this Company．Send for Illustrated Cataloguo to the Gzone Worss Coxpans，Lonilon， Ontario．Sco cut of Imperial Harrester in adrertising colamns．
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# PROCLAMATION！ 

Whereas we have decided to commence this day a Grand Closing Sale of the whole of our immense stu is of Silks， Yelvets，Dress Goods，Hosiery，Gloves，Millinery，Mantles， Shawls，Blankets，Flannels，Cloths，＇Tweeds and Gents＇Fur－ nishings．We will also offer for sale at the same time our large stock of Ready－made Clothing，which is the most com－ plete and best stuck of the kind in Canada，being cut and made on the premises by first－class competent workmen，and quite equal to ordered clothing．
Our splendid stock of the best quality of Brussels，Melton， Tapestry，and Woul Carpets，English Fluor Oil Cloths and Linoleums，amounting to over sixty thousand dollars，will also be sacrificed，as our entire stock must le sold before the first of February next．
THIS IS NO HUMIBUG，BUT A GENUINE CLEARING SALE．

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1at．Oat ofn dien Improven Pampect－Tilling Any Rate．To this Rako wo call par－ ticular altention，as mo fool satisfied it is the most perlect of this class of lakes now mado． 2nd．Tre Focr．Any Track Ihaee，high standard．This Mako has no superior．

Farmere before ordering licapers for next harrest，will consult thoir own interests by kiving tho 1 drenisl，the most critical ozamination．In this Machine will bo found all tho good qualities of others，and it contains mans improvements that cannot bo had rith any other Machine．Erery Machine is sold nuder fnll warranty that it is just as ropre－ sentod．Send for Illastrated Catalogue of Farm Machinery to the

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 milic：itoprores t．
millen ccown will gicld moro milk，and nocaro to batter a mach richor faroor．
mherp．besides fattening thon，makes thom loss linulo to tick．and grnally improres tho wool． Catile anten ramisingly upea it，rad tho lergost oxport foolors in Canada uso it when feoding for the English market
IIogn will bo happior，and consequonty faticn raplidys．
Feultery will lay more ogs and bo improred in condilion．
 mitationk
JOHN LUMBERS，Sole Manufacturer，－－TORONTO．

## TORONTO WHOLESALE MARKETS．

Office Romal Casadian． Toronto，24th Nov．， 1881.
Coorrne Phonuck．－Apples．－Thera is an aotive demnand，nud donlors aliov a disposi－ tion to store in nuticipation of higher pricos． Car lots of oholce fruit nro worth $\$ 2.60$ to S3 a barrol，and somo holders rofuse 93.10
for Greonings nud Baldwins．Shipments to for Greonings nud Baldwing．Shipments to
Gront Britaiu havo cutumencel．Sians are aront Brtain havo cummenced．Lians aro 50 to 100 bushel lots at 82.25 to 82.35 ； 50 to 100 busbal lots at 82.25 to $\$ 2.35$ ；
jubuing lots aro firn at 82.60 to $\$ 2.60$ ． jubuing lots aro firm at 82.00 to $\$ 2.60$ ． Evis aro unchanged from last weok nid tho
aupply insuniolent ；cabo lots bring 200 to supply insunionent；caso lots bring 200 to
210 per duzen．Hoys uro tirm at $\$ 7.75$ to
 S8 on thostrect．and 8750 iu car lots．flots
aro hagher，with sales of chonce lots nt 2 lc aro hagher，witu bales of chooce $10 t 3$ nt $21 c$
to 22 c ；yearlings aro firm at 120 to 150 ． Onions nre scarce and firm，barrellots ooing guod demand and firm per bas；somo holders ask 900 bs the per ban；somo holers ank 900 by the car casy．Mulfry orers lroug and continues per 1 b ，and duke ne tur suse at 80.0 por Tallow and ducks and turkeys at 80 to 90. of rendered at 8c；doelers pay to for rough and $7 \neq 0$ to 7 lo for rendered．
FLOOR AND MasL．－Flour has beon quiet all woek，with apparcatly littlo demand． Holders aro firm，and the tono of the marbet is frmer at tho olose than at the opening of the weol．The latier part of last weok saparior oxtra offered freoly and sold to a small extent at $\$ 5.7$ ．On alonday and Tuesday there were buycra at that price，but holders sdvauced their prices to Si． 824 to 35.85 ．Yesturday superior extra oxered at purcly nominal at $\$ 5.65$ to 95.70 ， and strong bakcra＇at $\$ 6.25$ to $\$ 6.30$ ．Tho stook in store is 2，450 barrels，against 3,060 barrels last week，and 2.000 barrels tho cor－ responding week of 1880．Bran is in fair domand at \＄13，but holders ask \＄14，and no sales reported．Cornmeal is qniet．with hasiness conined to smalllots at $\$ 3.75$ and S4．Oatmeal is scarco and higher at 94.90 to $\$ 5.00$ by tho car lot；small lots sell at $\$ 5.25$ ．
Wirest．－The markot has been firm on a small basinoss．Oftrings ara small，holders being impressed with tho idoa that prices advance．Spriag has becn soling in care－ lots to millers at $\$ 1.35$ for No， 1 and at 31.88 foi No．2，but those prices were re－ fused on Tuesdas．No． 2 fall sold ir car and round lots on Saturday at $\$ 1.30$ ，and on Mondas four cars brought $\$ 1.31$ ．An aninspectd lot of Spring zold on Monday at \＄1．33．Tuesday the markot ma3 slightly easter，and yosterday No． 1 apriug sold at
$\$ 1.35 ;$ and No． 2 at $\$ 1.33$. No． 2 fall $\$ 1.35 ;$
offerel at $\$ 1.30$ ．With $\$ 1.28$ bid．No． 2 fall offerel at \＄1．30，with 81.28 bid．Tho mar－
ket today closal stoady；No． 1 spriag zold at $\$ 1.36$ ，No． 2 offered at $\$ 1.34$ ．The stock in store is 190,456 bashels，ngainst 198，757 bushcls last week，and 78.271 bushels the corresponding reck of 1880.
Connsk Gnass．－Barly．－There has beon a moderato smonnt of hasiness sinco our last，bat tho demand is chiefiy confined to No．2，which is relatively tho strongeat grader ono to five car lots ouly at arm，and Fridsy and Sitardayos on Friay in car lots nt 93c，and No． 2 at 81 c and 93 c ． firmer，and $\Omega$ rō̃od lot of $N$ o 1 sold at 9 tc The demand rea activo on Tuodey for So． 2 and all car lots offoring at 900 wore taken at that prico．Yesterdas thero ras little busincss dono：No 2 offered 90 ， No 3 oztra at $84 c$ and 50.3 atio at $90 c$ ， bids．The market cloynd easier with salcs of car lots of No． 1 at 92 c ：No． 2 choico at of car iots of No． 1 at
8juc；nul No． 2 at stc．The stock in store is 314,163 bushols，against 302,242 unshels last Feek，aud 313，241 bushels the cor－ reaponding week of 1880 ．Oats haro offer－ ed more irecly this meak，bat the demand continning good prices show no decline； salos werc reportod orery day of car lots at 450 on track；a car of Eastorn sold yostor－ day at 43 c ．No stock in store．Pras aro dull，with zone offering；the demand is fair，and prices nominalify firm at 800 for No． 1 and 73 c for No．2．Stook in store 7,321 buahels，against 6.754 bachels last wook，and 44,382 bushols the corresponding week of 1880．Rye is casy，the demand having bubsided；tho last zale wan reportad on Saiurday at 900 on track．Stook in stora 9,917 bushels，Corn yuiet，with only
a modorato demand，and pricos nomizal at 78 c to 80 ．
Hides and Skn：s．－Tho rcocipts of hidee aro moderato and priecs stendy．Dealca continuo to pay butchers 910 for No． 1
 gife．Calfstins aro dall and nominal at 140. Shecpstins aro ofloring Livals，and prioes are firm at 750 to $\$ 1.05$.

